# Official Gazette

[redacted]

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

VOLUMES 580+581

NOVEMBER + DECEMBER

MICRO-PHOTO SERVICE BUREAU
4614 PROSPECT AVENUE • CLEVELAND 3, OHIO
Phone UTah 1-7373

# OFFICIAL GAZETTE

OF THE

# UNITED STATES PATENT OFFICE

---


VOLUME 580

NOVEMBER

1945


---


UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON : 1945

# CONTENTS


| | Page |
|---|---|
| Decision of the Commissioner of Patents, November 6, 13, 20, 27 | 3, 155, 337, 503 |
| Trade-Marks Published and Registered, November 6, 13, 20, 27 | 13, 169, 349, 517 |
| Reissues, November 6, 13, 20, 27 | 37, 193, 375, 541 |
| Plant Patents, November 6, 13, 20, 27 | —, —, 375, 542 |
| Patents, November 6, 13, 20, 27 | 39, 194, 376, 543 |
| Designs, November 6, 13, 20, 27 | 141, 305, 490, 657 |


# ANNOUNCEMENTS


| | Page |
|---|---|
| Adverse Decisions in Interference | 335, 501 |
| Amendments to Drawings | 335 |
| Amendments Filed by Attorney Not of Record | 335 |
| Amendment Under *Rule 78*, Refusal of | 335 |
| Applications—Condition of pending | 2, 154, 336, 502 |
| Attorney's Address to Be Given in Power of Attorney | 335 |
| Briefs in Appealed Cases | 501 |
| Bulletin of Decisions on Trade-Marks | 511 |
| Communications to the Patent Office—Separate letter for each case—*Rule 8* | 501 |
| Copies of Patents Available for 10 Cents | 501 |
| Copies of Patents—Instruction re ordering | 1, 153 |
| Copies of Trade-Marks Available for 10 Cents | 501 |
| Cross-References in Cases Relating to Same Subject—*Rule 43* | 501 |
| Disclaimers: | |
| Barrows, Donald S | 501 |
| Burton, William | 153 |
| Fitch, Raymond L | 153 |
| Mittag, Albert H | 153 |
| Peter, Edmund W. A | 501 |
| Tack, Carl E | 153 |
| Drawings—Instruction re preparing: | |
| *Rule 38* | 1 |
| *Rule 52* | 501 |
| Erratum—In re Trade-Mark Renewal 207,150 | 153 |
| Fees: | |
| Notice re payment of | 1 |
| Returnability of | 1 |
| Foreign Patents—Data given when citing | 335 |
| Notice—Executive Order 8389 and T. D. General Ruling No. 11A, re accounts held by Patent Office for Nationals of blocked countries, Construed | 153 |
| Patent Suits | 166 |
| Patents—List of adjudicated | 1, 153 |
| Photostat Copies of Patents—Instruction re ordering | 501 |
| Recording Corporate Names | 335 |
| Register of Patents Available for Licensing or Sale | 10, 167, 345, 509 |
| International Harvester Company offers licenses under patents | 12, 168, 348, 510 |
| Status of Cases Decided by Board of Appeals, Notification by Examiner Unnecessary | 335 |


# TABLE OF CASES REPORTED


| | Page |
|---|---|
| • Bentham, In re | 505 |
| • Chandler *v.* Mock | 159 |
| • Cornell, In re | 507 |
| • Firestone Tire & Rubber Co. *v.* Montgomery Ward & Co., Inc | 3 |
| • Flint, In re | 337 |
| • Heritage, In re | 155 |
| • Kuhn et al., In re | 164 |
| • Meyer, In re | 344 |
| • Rockwell, In re | 158 |
| • Ruzicka et al., In re | 340 |
| • Sholl Dental Laboratory Company *v.* McKesson & Robbins, Incorporated | 8 |
| • Turner, In re | 503 |
| • Weber, In re | 7 |
| • Wilson, In re | 342 |


[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (•).]

Patents Nos. 2,388,234 to 2,388,661

# THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 580—No. 1 TUESDAY, NOVEMBER 6, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

## CONTENTS

| | Page |
|---|---|
| Issue of November 6, 1945 | 1 |
| Notice | 1 |
| Adjudicated Patents | 1 |
| Notice Regarding Payment of Fees | 1 |
| Drawings | 1 |
| Returnability of Fees | 2 |
| Applications Under Examination | |
| Decisions of the U. S. Courts— | |
| Firestone Tire & Rubber Co. v. Montgomery Ward & Co., Inc. | 3 |
| In re Weber | 7 |
| Sholl Dental Laboratory Company v. McKesson & Robbins, Incorporated | 8 |
| Register of Patents Available For Licensing or Sale | 10 |
| Notice | 12 |
| Trade-Marks Published (122 Applications) | 13 |
| Trade-Mark Registrations Granted | 28 |
| Trade-Mark Registrations Renewed | 33 |
| Reissues | 37 |
| Patents Granted | 39 |
| Designs | 141 |

## November 6, 1945

| | | |
|---|---|---|
| Trade-Marks | 87—No. 417,592 to No. | 417,678, inclusive. |
| T. M. Renewals | 40 | |
| Reissues | 4—No. 22,687 to No. | 22,690, inclusive. |
| Patents | 428—No. 2,388,234 to No. | 2,388,661, inclusive. |
| Designs | 45—No. 142,762 to No. | 142,806 inclusive. |
| Total | 604 | |

## Notice

When coupons are used in ordering printed copies of patents each one must bear, in addition to patent number, the name and address of the person to whom the copies are to be mailed. When ordering printed copies of patents, by letter, be sure to list them in numerical order.

## Adjudicated Patents

(D. C. Minn.) Swenson patent, No. 2,095,535, for an artificial tooth, *Held* invalid. *Swenson* v. *Boos*, 61 F. Supp. 704, 66 USPQ 99.

(D. C. N. Y.) Rabinowitz and Rabinowitz patent, No. 2,160,517, for a metal cap and dauber, claim 1 *Held* invalid. *American Cork Specialties Co.* v. *Robbins*, 61 F. Supp. 681; 66 USPQ 4.

(D. C. N. Y.) Anderson patent, No. 2,197,089, for a machine for folding paper boxes, claims 15, 18, 24, and 34 *Held* invalid. *Bergstein* v. *Lowman Folding Box Corp.*, 61 F. Supp. 760; 66 USPQ 19.

(D. C. Pa.) Kolb patent, No. 2,228,602, for a boiler, *Held* not infringed. *Kolb* v. *Penn Boiler & Burner Mfg. Co.*, 61 F. Supp. 799; 66 USPQ 188.

## Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

## Drawings

### Rule 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

### Rule 52—Extract

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

## Returnability of Fees

Hereafter all questions pertaining to the return of fees will be referred to the Financial Division. Examiners and chiefs of other divisions will express no opinion to attorneys or applicants as to whether or not fees are returnable in particular cases.

## Condition of Applications Under Examination at Close of Business October 19, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 73,761; Trade-Mark Division, 2,705. Oldest new case, Oct. 12, 1944; oldest amended Oct. 17 1944.)

(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action | | No. of applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | †Dec. 16 | Jan. 1 | 1199 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Oct. 26 | †Nov. 6 | 1417 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | †Dec. 28 | †Dec. 28 | 1304 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | Mar. 3 | Mar. 20 | 1144 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Oct. 17 | †Oct. 17 | 1909 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Jan. 19 | Feb. 24 | 1305 |
| 7. JARBOE, C. G., Optics, Photography | Apr. 16 | Apr. 24 | 1066 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 15 | Mar. 29 | 1204 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Nov. 24 | 1328 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 6 | June 2 | 364 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Nov. 11 | †Nov. 25 | 1404 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning | Jan. 24 | Feb. 16 | 1140 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Mar. 23 | Mar. 17 | 962 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | Mar. 21 | Apr. 12 | 922 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 3 | Mar. 3 | 872 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | †Dec. 1 | †Dec. 11 | 715 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Jan. 24 | Jan. 4 | 1251 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Feb. 1 | †Dec. 11 | 800 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Feb. 23 | Feb. 21 | 866 |
| 21. THOMPSON, T. J., Textiles | Apr. 16 | Apr. 27 | 533 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Feb. 22 | Feb. 22 | 1345 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | †Dec. 7 | 157 |
| 24. LUBBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 4 | Mar. 5 | 963 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Jan. 8 | Feb. 10 | 1009 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 1 | †Dec. 1 | 1289 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 1 | †Nov. 16 | 1211 |
| 28. SOLYOM, H. L., Heating, Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Nov. 6 | †Nov. 6 | 1067 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools | †Dec. 16 | †Dec. 21 | 1237 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 1 | Jan. 24 | 1316 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | May 30 | May 28 | 871 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Mar. 26 | Apr. 4 | 979 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 6 | Feb. 12 | 1256 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 2 | Jan. 31 | 716 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Jan. 9 | †Dec. 11 | 1065 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Feb. 9 | †Nov. 29 | 826 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | †Nov. 30 | †Dec. 6 | 1243 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Jan. 1 | Jan. 2 | 954 |
| 39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 2 | Jan. 5 | 1362 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Jan. 6 | Feb. 3 | 1537 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 570 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Feb. 28 | Mar. 17 | 655 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 12 | Jan. 4 | 807 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Oct. 20 | †Oct. 20 | 727 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | †Dec. 29 | Jan. 29 | 1379 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | †Nov. 29 | †Nov. 29 | 808 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Mar. 19 | Apr. 4 | 1292 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | †Dec. 13 | †Dec. 20 | 1326 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Mar. 10 | Mar. 19 | 709 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Feb. 19 | Feb. 19 | 1512 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Jan. 1 | Jan. 5 | 2045 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 1 | Jan. 10 | 1735 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Oct. 21 | †Nov. 30 | 1368 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 12 | †Nov. 7 | 1460 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 5 | Mar. 7 | 982 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | †Dec. 5 | †Dec. 8 | 1072 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Nov. 21 | †Dec. 4 | 1223 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | Apr. 18 | 720 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Nov. 20 | †Nov. 22 | 1426 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | †Dec. 26 | †Dec. 29 | 1230 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 6 | Feb. 2 | 1201 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Nov. 18 | †Nov. 24 | 1998 |
| 63. WINKELSTEIN, A. H., Foisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 2 | Jan. 1 | 1478 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | June 23 | June 18 | 801 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Nov. 10 | †Nov. 14 | 1416 |
| Trade-Marks: RICHMOND, F. A | June 26 | Aug. 8 | 2705 |
| Designs: KALUPY, H. H | July 3 | Aug. 17 | 1718 |



# LIST OF TRADE-MARK APPLICANTS

## PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Admiral Corporation, Chicago, Ill. Publication. Serial No. 477,345; Nov. 6. Class 38.

Aircraft Screw Products Company, Inc., Long Island City, N. Y. Tools, apparatus and machines for use in connection with screw connections and their parts. Serial No. 480,973; Nov. 6. Class 23.

Alexander, Jane, Valley Stream, N. Y. Fresh canned, candied and dried apples, etc. Serial No. 482,606; Nov. 6. Class 46.

Allianceware, Incorporated, Alliance, Ohio. Porcelain-enameled bathtubs, lavatories, and sinks. Serial No. 484,815; Nov. 6. Class 13.

American Viscose Corporation, Wilmington, Del. Yarns, threads, and twisted synthetic fibers. Serial Nos. 482,914–15; Nov. 6. Class 43.

Amoges China Co. Inc., Dentzville, Trenton, N. J. Decorated chinaware. Serial No. 483,202; Nov. 6. Class 30.

Angelus Laboratories: *See*—
Brunswig Drug Company.

Anglo-Continental Wool Company Limited, Bradford, England. Hand knitting yarns. Serial No. 482,781; Nov. 6. Class 43.

Anthony, Ralph M., Detroit, Mich. Toy buildings and toy guns. Serial No. 486,400; Nov. 6. Class 22.

Applied Chemical Corporation, New York, N. Y. Aluminum acetate. Serial No. 485,394; Nov. 6. Class 6.

Asher, Albert, doing business as Albert Asher Co., San Francisco, Calif. Canned fruits, dried fruits, and fresh fruits. Serial No. 475,183; Nov. 6. Class 46.

Asher, Albert, Co.: *See*—
Asher, Albert.

Bay Country Foods, Inc., Easton, Md. Canned vegetables. Serial No. 486,024; Nov. 6. Class 46.

Beezey Products, Inc., New York, N. Y. Nursing bottles holders. Serial No. 485,679; Nov. 6. Class 44.

Benrose Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. Serial No. 487,592; Nov. 6. Class 42.

Blackwell, Elizabeth, Glendale, Calif. Knitted garments for children. Serial No. 486,710; Nov. 6. Class 39.

Brenner, Peter K., Cliffside Park, N. J. Game boards. Serial No. 481,009; Nov. 6. Class 22.

Brown, Thomas L., Ltd., Kansas City, Mo. Fresh meat. Serial No. 477,396; Nov. 6. Class 46.

Bruning, Charles, Company, Inc., New York, N. Y. Developing powders and materials. Serial No. 485,435; Nov. 6. Class 6.

Brunswig Drug Company, doing business as Angelus Laboratories, Los Angeles, Calif. Multiple vitamin prodnct. Serial No. 476,135; Nov. 6. Class 6.

Burr, Patterson & Auld Company, Detroit, Mich. Rings, bracelets, charms and fraternity badges. Serial No. 478,851; Nov. 6. Class 28.

California Spray-Chemical Corporation, Wilmington, Del. Parasiticides and insecticides. Serial No. 485,398; Nov. 6. Class 6.

Calkins Appliance Corporation, South Bend, Ind. Combination electric toaster and cooker. Serial No. 483,209; Nov. 6. Class 21.

Camden Furniture Company, Camden, Ark. Household furniture. Serial No. 470,436; Nov. 6. Class 32.

Consolidated Exterminators, Inc., New York, N. Y. Insecticides. Serial No. 484,248; Nov. 6. Class 6.

Continental Oil Company, Ponca City, Okla. Gasoline. Serial No. 487,998; Nov. 6. Class 15.

Crown City Mattress Works, Pasadena, Calif. Mattresses. Serial Nos. 485,858–60; Nov. 6. Class 32.

Crystal, David, Inc., New York, N. Y. Ladies' and Misses' dresses, coats, and jacket ensembles. Serial No. 485,402; Nov. 6. Class 39.

Dart, Robert H., Sacramento, Calif. Fresh deciduous fruit. Serial No. 485,075; Nov. 6. Class 46.

Dayton Manufacturing Company, The, Dayton, Ohio. Combination toilet facilities. Serial No. 483,305; Nov. 6. Class 13.

Duriron Company, Inc., The, Dayton, Ohio. Exhaust fans, electrically operated exhaust fans, and heat exchangers. Serial No. 480,746; Nov. 6. Class 34.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 485,490; Nov. 6. Class 6.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic film. Serial No. 485,491; Nov. 6. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 485,492; Nov. 6. Class 6.

Eitel-McCullough, Inc., San Bruno, Calif. Electrical type pressure gauges. Serial No. 480,860; Nov. 6. Class 26.

Eitel-McCullough, Inc., San Bruno, Calif. Vacuum pumps. Serial No. 480,861; Nov. 6. Class 23.

Empire Box Corporation, Garfield, N. J. Collapsible glued boxes, cartons, and trays. Serial No. 483,571; Nov. 6. Class 2.

Falls Yarn Mills, Woonsocket, R. I. Yarns of wool and other fibres. Serial No. 485,403; Nov. 6. Class 43.

Federal Electric Company, Inc., Chicago, Ill. Plastic pipe and tubing. Serial No. 477,928; Nov. 6. Class 13.

Federal Electric Company, Inc., Chicago, Ill. Plastic pipe and tubing. Serial No. 484,947; Nov. 6. Class 13.

Foreman Fabrics Inc., New York, N. Y. Piece goods of rayon yarns. Serial No. 486,891; Nov. 6. Class 42.

40-Fathom Fish, Inc., New York, N. Y. Fish and shellfish products. Serial No. 484,835; Nov. 6. Class 46.

Friedman & Reiss, New York, N. Y. Ladies' and misses' coats and suits. Serial No. 485,406; Nov. 6. Class 39.

Globe-Wernicke Co., The, Norwood, Ohio. Wood desk trays, steel desk trays, filing shelves, etc. Serial No. 477,765; Nov. 6. Class 32.

Great Stuff Products Corp., Chicago, Ill. Soap. Serial No. 482,799; Nov. 6. Class 4.

Green-Bradbury, Inc., Toledo, Ohio, and Hollywood, Calif. Effervescent seltzer tablets. Serial No. 471,899; Nov. 6. Class 6.

Grossman Music Co., Cleveland, Ohio. Toy musical humming instruments. Serial No. 485,216; Nov. 6. Class 22.

H & H Research Laboratory: *See*—
Hahn, Clarence L.

Hahn, Clarence L., doing business as H & H Research Laboratory, Baltimore, Md. Artificial fish bait. Serial No. 482,055; Nov. 6. Class 22.

Halliwell Inc., New York, N. Y. Cold wave permanent waving lotion. Serial No. 484,742; Nov. 6. Class 6.

Hartzell Industries, Inc., Piqua, Ohio. Impregnated and compressed wood product. Serial No. 462,255; Nov. 6. Class 12.

Heirloom Needlework Guild. Inc., New York, N. Y. Wool yarn. Serial No. 485,866; Nov. 6. Class 43.

Herba, Inc., New York, N. Y. Hair brushes, tooth brushes, shaving brushes, etc. Serial No. 487,365; Nov. 6. Class 29.

Hercules Powder Company, Wilmington, Del. Active chemical ingredient. Serial No. 483,444; Nov. 6. Class 6.

Hercules Powder Company, Wilmington, Del. Resin emulsions. Serial No. 480,455; Nov. 6. Class 1.

Hlavaty Insulations: *See*—
Hlavaty, Rudolph F.

Hlavaty, Rudolph F., doing business as Hlavaty Insulations, Cicero, Ill. Insulation. Serial No. 485,771; Nov. 6. Class 12.

Ideal Records Company, New York, N. Y. Phonograph records and phonograph record blanks. Serial No. 484,255; Nov. 6. Class 36.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial No. 477,697; Nov. 6. Class 26.

Imported Delicacies Co., New York, N. Y. Candy drops, filled drops, and peppermint pastilles. Serial No. 485,913; Nov. 6. Class 46.

International Lubricant Corporation, New Orleans, La. Lubricating oils and greases. Serial No. 486,529; Nov. 6. Class 15.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Carbon dioxide and oxygen. Serial No. 485,282; Nov. 6. Class 6.

Laister-Kauffmann Aircraft Corporation, Richmond Heights, Mo. Glider planes. Serial No. 470,727; Nov. 6. Class 19.

Lederer, S. & B., Company, Providence, R. I. Wrist watch straps and bands. Serial No. 472,007; Nov. 6. Class 40.

Lindsay, Robert Z., doing business as Veddersburg Co., Amsterdam, N. Y. After shaving lotion. Serial No. 480,955; Nov. 6. Class 6.

M System Mfg. Co., Vicksburg, Miss. House trailers. Serial No. 483,861; Nov. 6. Class 19.

Manson Distributors, doing business as Royana, Chicago, Ill. Perfume and cologne. Serial No. 485,580; Nov. 6. Class 6.

Martin Cantine Company, The, Saugerties, N. Y. Enameled book paper. Serial No. 472,248; Nov. 6. Class 37.

Maurella Products Co.: *See*—
Handman, Maurice.

Maurice Handman, doing business as Maurella Products Co., New York, N. Y. Emollients and lotions. Serial No. 484,528; Nov. 6. Class 4.

McConnon & Company, Winona, Minn. Insecticide. Serial No. 485,732; Nov. 6. Class 6.

Metropolitan Chemical Corporation, Albany, N. Y. Shampoo for the hair. Serial No. 483,230; Nov. 6. Class 6.

Mihalik, Andrew S., Rouelle Park, N. J. Vitamin preparation. Serial Nos. 476,218–19; Nov. 6. Class 6.

Miller, E. J., Feature Company: *See*—
Miller, Eddy J.

Miller, Eddy J., doing business as E. J. Miller Feature Company, Evansville, Ind. Comic strip. Serial No. 483,829; Nov. 6. Class 38.

Moffats Limited, Town of Weston, Ontario, Canada. Electric stoves and ranges; electric ovens; kettles and pails, etc. Serial No. 481,420; Nov. 6. Class 21.

Monarch Playtime Products, Chicago, Ill. Jig-saw puzzles. Serial Nos. 487,789–90; Nov. 6. Class 22.

Mullins Manufacturing Corporation, Salem and Warren, Ohio. Slide, calculating, or computing rules. Serial No. 482,847; Nov. 6. Class 26.

Norland Manufacturing Corporation, New York, N. Y. Boxed sets of marble games. Serial No. 485,828; Nov. 6. Class 22.

Olympia Brewing Company, Olympia, Wash. Dried brewer's yeast. Serial No. 484,902; Nov. 6. Class 46.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Cough syrup. Serial No. 485,596; Nov. 6. Class 6.

Philadelphia Seed Co., The, Philadelphia, Pa. Grass, field, and agricultural seeds. Serial No. 485,846; Nov. 6. Class 1.

Pittsburgh Crushed Steel Company, Pittsburgh, Pa. Steel peening shot. Serial No. 483,922; Nov. 6. Class 4.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Ointment to relieve superficial itching. Serial No. 485,735; Nov. 6. Class 6.

Refined Products Company, Lyndhurst, N. J. Detergent compound used as a dyeing assistant, for scouring and also desizing in the process of dyeing. Serial No. 475,463; Nov. 6. Class 6.

Rex Co., Inc., The, Cambridge, Mass. Plastic composition in the form of thread or rodding. Serial No. 480,087; Nov. 6. Class 21.

Rhodes Plastic Products, Inc., New York, N. Y. Garment hangers. Serial No. 484,640; Nov. 6. Class 50.

Ridge Tool Company, The, Elyria, Ohio. Pipe wrenches, monkey wrenches, pipe vises, cutter blades, etc. Serial No. 485,604; Nov. 6. Class 23.

Rising, J. Stanley, Oakland, Calif. Gasoline and lubricating oils. Serial No. 487,389; Nov. 6. Class 15.

Rit Products Corporation, Chicago, Ill. Shoe and leather polish. Serial No. 480,387; Nov. 6. Class 4.

Rival Foods, Inc., Cambridge, Mass. Ammonia, bleaching water, and gloss starch. Serial No. 485,651; Nov. 6. Class 6.

Riverside & Dan River Cotton Mills, Inc. Piece goods of cotton, rayon, wool, or mixtures. Serial No. 487,208; Nov. 6. Class 42.

Royana: *See*—
Manson Distributors.

Sanguinetti Fruit Company, Lodi, Calif. Fresh vegetables. Serial No. 486,654; Nov. 6. Class 46.

Sauer, Leo A., doing business as V-O Manufacturing Co., Glendale, Calif. Soaps, compounds for cleaning rubber mats, glass cleaning compounds, etc. Serial No. 484,909; Nov. 6. Class 4.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Boots, shoes, and slippers. Serial No. 483,349; Nov. 6. Class 39.

Scientific Supply Company, Inc., Denver, Colo. Cleaning compounds for washing dishes, painted surfaces, automobiles, floors, and the like. Serial No. 484,324; Nov. 6. Class 4.

Shapiro, S. G., & Son, New York, N. Y. Unit comprising an electrically heated tool. Serial No. 483,238; Nov. 6. Class 21.

Shell Union Oil Corporation, San Francisco, Calif. Ammonia for soil fertilising. Serial No. 484,037; Nov. 6. Class 10.

Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides and fungicides. Serial No. 484,912; Nov. 6. Class 6.

Smart, Wesley H., San Francisco, Calif. A medicinal preparation for the treatment of poison oak. Serial No. 473,679; Nov. 6. Class 6.

Sparhawk, Charles V., doing business as Sparhawk Company, Sparkhill, N. Y. Skunk gland product. Serial No. 470,006; Nov. 6. Class 6.

Sparhawk Company: *See*—
Sparhawk, Charles V.

Spiegel, Inc., Chicago, Ill. Fishing rods, fishing reels, fishing lines, etc. Serial No. 485,172; Nov. 6. Class 22.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils and greases. Serial No. 485,666; Nov. 6. Class 15.

Stanley, John T., Co., Inc., New York, N. Y. Soap. Serial No. 485,549; Nov. 6. Class 4.

Steck Company, The, Austin, Tex. Adhesive tabs. Serial No. 483,042; Nov. 6. Class 5.

Stewart-Warner Corporation, Chicago, Ill. Electronic apparatus for indicating conditions of balance or unbalance in automotive wheels, etc. Serial No. 481,344; Nov. 6. Class 26.

Stilwell, Ralph F., Carmi, Ill. Musical instruments of the xylophone type. Serial No. 486,229; Nov. 6. Class 36.

Sutton, O. A., Corporation, Incorporated, The, Wichita, Kans. Electric fans. Serial No. 482,403; Nov. 6. Class 21.

Swiss-American Importing Co., St. Louis, Mo. Groceries. Serial No. 472,592; Nov. 6. Class 46.

Syntron Company, Homer City, Pa. Unitary hand electric hammers and their controls, electric drills, grinders, etc. Serial No. 480,881; Nov. 6. Class 21.

Timmy Togs Company, Philadelphia, Pa. Boys' wash and dress suits, blouses, etc. Serial No. 485,892; Nov. 6. Class 39.

Travelite Trailer Co., Chicago, Ill. House trailers. Serial No. 484,109; Nov. 6. Class 19.

Tussache Co., New York, N. Y. Perfume, cologne, hair lotion, skin perfume, bath oil, and after shaving lotion. Serial No. 478,726; Nov. 6. Class 6.

Ullman Products Corp., Brooklyn, N. Y. Portable machinery inspecting mirrors. Serial No. 483,157; Nov. 6. Class 23.

Union-Baystate Co., Inc., Cambridge, Mass. Synthetic rubber cement. Serial No. 480,481; Nov. 6. Class 5.

United Feature Syndicate, Inc., New York, N. Y. Comic drawings. Serial No. 487,050; Nov. 6. Class 38.

V-O Manufacturing Co.: *See*—
Sauer, Leo A.

Vedersburg Co.: *See*—
Lindsay, Robert Z.

Walker Vitamin Products, Inc., Mount Vernon, N. Y. Capsules containing ferrous sulphate exsiccate with added vitamins from the B complex group. Serial No. 470,163; Nov. 6. Class 6.

Wells, Maynard W., Elkhart, Ind. Tray-like device. Serial No. 471,141; Nov. 6. Class 32.

Weston Electrical Instrument Corporation, Newark, N. J. Direct current electrical instruments. Serial No. 483,355; Nov. 6. Class 26.

Wickes Bros., Saginaw, Mich. Blue printing machines. Serial No. 483,643; Nov. 6. Class 26.

Winthrop Chemical Company, Inc., New York, N. Y. Multivitamin preparations. Serial No. 485,740; Nov. 6. Class 6.

Zilen, Charles M., doing business as Zilen Citrus Co., Riverside, Calif. Fresh citrus fruits. Serial No. 485,671; Nov. 6. Class 46.

Zilen Citrus Co.: *See*—
Zilen, Charles M.

Zinn, Julius A., Jr., Belmont, Mass. Containers formed of sheet material, and moisture impervious or moisture resistant cardboard, pasteboard, or other fibre board. Serial No. 482,516; Nov. 6. Class 2.

# LIST OF REGISTRANTS OF TRADE-MARKS

Agency Paper Company, New York, N. Y. Air mail paper, air mail envelopes, printing paper, etc. 417,641; Nov. 6; Serial No. 483,128; published Aug. 28, 1945. Class 37.

Allen, Edgar, & Company Limited, Sheffield, England. Tool steel. 417,630; Nov. 6; Serial No. 482,409; published Aug. 28, 1945. Class 14.

Allied Kid Company, Boston, Mass. Unfinished and partly finished leather. 417,644; Nov. 6; Serial No. 483,599; published Aug. 28, 1945. Class 1.

American Bleached Goods Company, Inc.: *See*—
Richardson, Roberts Dry Goods Co.

American Book Company, to American Book Company, New York, N. Y. School textbooks. 46,735; re-renewed Oct. 3, 1945. O. G. Nov. 6. Class 38.

American Coffee Company, Inc.: *See*—
New Orleans Coffee Co. Ltd.

American Tank and Fabricating Company, The, Cleveland, Ohio. Steel plates, sheets, bars, etc. 417,606; Nov. 6; Serial No. 477,346; published Aug. 28, 1945. Class 14.

American Type Founders Sales Corporation, Elizabeth, N. J. Lithographic cameras, portable cameras, and precision cameras. 417,643; Nov. 6; Serial No. 483,564; published Aug. 14, 1945. Class 26.

Armour and Company: *See*—
Virden Packing Company.

Atkins & Dorbrow, Inc., New York, N. Y. Combination fertilizer and soil conditioner. 417,642; Nov. 6; Serial No. 483,164; published Aug. 28, 1945. Class 10.

Atkins, E. C., and Company, Indianapolis, Ind. Unmounted abrasive wheels. 200,760; renewed July 7, 1945. O. G. Nov. 6. Class 4.

Attorneys Printing Supply Co.: *See*—
Bell, A. Marshall.

Auffhauser, Alfred, doing business as Industrial Raw Materials Company, New York, N. Y. Wax composition. 417,645; Nov. 6; Serial No. 483,755; published Aug. 21, 1945. Class 15.

B. D. B. Typewriter Supply Works: *See*—
Brilles, Bell D.

Baker, James Scott St. Barbe, doing business as James Scott Manufacturing Company, London, England. Inks. 417,603; Nov. 6; Serial No. 474,474; published Aug. 21, 1945. Class 11.

Bates, C. J., & Son, Chester, Conn. Manicure articles. 417,659; Nov. 6. Class 44.



Bell, A. Marshall, doing business as Attorneys Printing Supply Co., San Francisco, Calif. Legal paper. 417,658; Nov. 6. Class 37.

Bellows, Bertram B., doing business as "Pronunciation," Toledo, Ohio. Card game. 417,668; Nov. 6. Class 22.

Binney & Smith Company, New York, N. Y. Black pigments. 207,293; renewed Dec. 29, 1945. O. G. Nov. 6. Class 16.

Blakeslee, Austin T., Blakeslee, Pa. Fresh vegetables. 417,675; Nov. 6. Class 46.

Boco Company, Cleveland, Ohio. Metal polish. 417,625; Nov. 6; Serial No. 481,831; published Aug. 21, 1945. Class 4.

Brighton Products Company: *See*—
Kneitel, Arnold.

Brilles, Bell D., doing business as B. D. B. Typewriter Supply Works, New York, N. Y. Typewriter supplies. 417,608; Nov. 6; Serial No. 479,025; published Aug. 21, 1945. Class 11.

Brown, G. F., Company: *See*—
Brown, Geraldine F.

Brown, Geraldine F., doing business as G. F. Brown Company, Philadelphia, Pa. Cleansing preparation for general household, toilet and laundry use. 417,594; Nov. 6; Serial No. 484,848; published Aug. 21, 1945. Class 4.

Burton & Dreyer, Waukegan, Ill. General line of cakes and cookies. 417,621; Nov. 6; Serial No. 481,610; published Aug. 28, 1945. Class 46.

California Fruitarge, Inc., White Plains, N. Y. Fruit cake. 417,615; Nov. 6; Serial No. 481,058; published Aug. 28, 1945. Class 46.

California Packing Corporation: *See*—
Prince, H. G., & Co.

Callite Tungsten Corporation, Union City, N. J. Composite metal wires. 417,622; Nov. 6; Serial No. 481,663; published Aug. 21, 1945. Class 14.

Camarillo Citrus Association, Camarillo, Calif. Fresh citrus fruits. 417,647; Nov. 6; Serial No. 484,118; published Aug. 28, 1945. Class 46.

Camden Furniture Company, Camden, Ark. Chests of drawers. 417,657; Nov. 6. Class 32.

Certain-teed Products Corporation, Chicago, Ill. Dental plaster of Paris. 417,609; Nov. 6; Serial No. 472,444; published Aug. 28, 1945. Class 44.

Clear Lake Cannery, Inc., Upper Lake, Calif. Canned string beans. 208,229; renewed Jan. 19, 1946. O. G. Nov. 6. Class 46.

Collegiate Manufacturing Company, Inc., New York, N. Y. Women's and misses' nightgowns, pajamas, and slips. 417,661; Nov. 6. Class 39.

Colyer, J. L., Yuma, Ariz. Fresh vegetables. 417,654; Nov. 6. Class 46.

Cork Import Corporation, New York, N. Y. Asphaltic paints and asphaltic printing and sealing paints. 417,619; Nov. 6; Serial No. 481,523; published Aug. 21, 1945. Class 16.

Cox, Clarence H., doing business as Cox's, Waco, Tex. Candy and salt peanuts. 417,673; Nov. 6. Class 46.

Cox's: *See*—
Cox, Clarence H.

Cream of Chocolate Company of America, Waltham, to Durkee-Mower, Inc., East Lynn, Mass. Chocolate preparation. 207,305; renewed Dec. 29, 1945. O. G. Nov. 6. Class 46.

Dad & Lad Co., The, New Lenox, Ill. Prepared paints and glazing compounds. 417,627; Nov. 6; Serial No. 481,944; published Aug. 28, 1945. Class 16.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Animal feed compound for ruminants. 417,598; Nov. 6; Serial No. 471,025; published Aug. 28, 1945. Class 46.

Durkee-Mower, Inc.: *See*—
Cream of Chocolate Company of America.

Eversharp, Inc., Chicago, Ill. Fountain pens and mechanical pencils. 417,635; Nov. 6; Serial No. 482,794; published Aug. 28, 1945. Class 37.

Falck, F. L., & Co., Allegheny, to F. L. Falck & Company, Pittsburgh, Pa. Laundry, toilet, and shaving soaps. 47,878; re-renewed Nov. 28, 1945. O. G. Nov. 6. Class 4.

Falck, F. L., & Company: *See*—
Falck, F. L., & Co.

Fidelity Chemical Products Corp., Newark, N. J. Preparations for removing paints, lacquers, enamels, etc. 417,618; Nov. 6; Serial No. 481,472; published Aug. 14, 1945. Class 16.

Flex-O-Glass Manufacturing Company, to Harold Warp, doing business as Flex-O-Glass Manufacturing Company, Chicago, Ill. Transparent, waterproof, oiled, cloth for covering tents, porches, storm doors, etc. 206,256; renewed Nov. 24, 1945. O. G. Nov. 6. Class 50.

Flynn, Lawrence J., doing business as Subscription Playing Cards, Boston, Mass. Playing cards. 417,613; Nov. 6; Serial No. 481,015; published Aug. 28, 1945. Class 22.

Fortnum & Mason Limited, London, England. Boots and shoes, negligee and under shirts, hats, etc. 199,043; renewed June 2, 1945. O. G. Nov. 6. Class 39.

General Tire & Rubber Company, The, Akron, Ohio. Vulcanizable tire retread stock. 417,639; Nov. 6; Serial No. 483,056; published Aug. 28, 1945. Class 35.

Gerard Milk Products Company: *See*—
Obrecht, G. Fred.

Gianelloni, S. J., Jr., Baton Rouge, La. Table syrups and molasses. 417,620; Nov. 6; Serial No. 481,533; published Aug. 28, 1945. Class 46.

Greenberg, R. R., doing business as Greenberg, R. R., Co., Reedley, Calif. Fresh deciduous fruits. 417,660; Nov. 6. Class 46.

Greenberg, R. R., Co.: *See*—
Greenberg, R. R.

Ground Gripper Shoe Company, Inc., New York, N. Y., and Boston, Mass., to The Selby Shoe Company, Portsmouth, Ohio. Leather and fabric boots and shoes. 207,023; renewed Dec. 15, 1945. O. G. Nov. 6. Class 39.

Gulden, Charles, to Charles Gulden, Inc., New York, N. Y. Mustard. 48,460; re-renewed Jan. 2, 1945. O. G. Nov. 6. Class 46.

Gulden, Charles, Inc.: *See*—
Gulden, Charles.

Haase, Wilbert W., Co., Forest Park, Ill. Burial vaults. 417,669; Nov. 6. Class 2.

Heppenstall Company, Pittsburgh, Pa. Steel forgings. 417,623; Nov. 6; Serial No. 481,705; published Aug. 14, 1945. Class 14.

Hettrick Manufacturing Company, The, Toledo, Ohio. Awnings and tents. 417,604; Nov. 6; Serial No. 475,110; published Aug. 28, 1945. Class 50.

Hi-Goal Products Corporation, New York, N. Y. Artificial leather having leather fiber content. 417,614; Nov. 6; Serial No. 481,024; published Aug. 28, 1945. Class 50.

Hinde & Dauch Paper Company, Sandusky, Ohio. Cartons for use on bottles, lamp-chimneys, electric-lamp bulbs, etc. 48,402; re-renewed Dec. 26, 1945. O. G. Nov. 6. Class 2.

Imperial Baker Co., Brooklyn, N. Y. Pottery figurines, hand painted and ornamental chinaware figurines, etc. 417,610; Nov. 6; Serial No. 479,074; published Aug. 28, 1945. Class 50.

Industrial Raw Materials Company: *See*—
Auffhauser, Alfred.

Industrial Tape Corporation, New Brunswick, N. J. Colored, translucent and non-transparent adhesive tapes. 417,602; Nov. 6; Serial No. 474,450; published Aug. 28, 1945. Class 5.

James Scott Manufacturing Company: *See*—
Baker, James Scott St. Barbe.

Kadin Bros. Inc., New York, N. Y. Pocketbooks, portfolios, and purses. 417,605; Nov. 6; Serial No. 477,196; published Aug. 28, 1945. Class 3.

Kalle and Company, Aktiengesellschaft, Biebrich on the Rhine, Germany, to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical and therapeutical preparations. 206,674; renewed Dec. 5, 1945. O. G. Nov. 6. Class 6.

Kellogg, M. W., Company, The, Jersey City, N. J., and New York, N. Y. Ready mixed paints. 417,601; Nov. 6; Serial No. 474,125; published Aug. 21, 1945. Class 16.

Kneitel, Arnold, doing business as Brighton Products Company, New York, N. Y. Apple syrup. 417,650; Nov. 6; Serial No. 484,262; published Aug. 28, 1945. Class 46.

Kranabo Foods Stores, Incorporated, Oshkosh, Wis. Pretzels, dried currants, raisins, etc. 417,607; Nov. 6; Serial No. 477,420; published Aug. 28, 1945. Class 46.

Landau, Henry, New York, N. Y. Frosted foods. 417,663; Nov. 6. Class 46.

Leslie Distributing Co., Philadelphia, Pa. Whiskey. 417,665; Nov. 6. Class 49.

Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Shaving lotion, bath soap, hand soap, etc. 417,595; Nov. 6; Serial No. 467,993; published Aug. 21, 1945. Class 4.

Lloyd, Windsor Products Co., Philadelphia, Pa. Automobile mufflers. 417,656; Nov. 6. Class 23.

Lowe, F. S., Company, Inc., New York, N. Y. Board game. 417,638; Nov. 6; Serial No. 482,936; published Aug. 28, 1945. Class 22.

Master Lock Company, Milwaukee, Wis. Hasps. 417,636; Nov. 6; Serial No. 482,884; published Aug. 21, 1945. Class 13.

Matulich, T. J., doing business as T. J. Matulich Co., Watsonville, Calif. Fresh vegetables. 417,648; Nov. 6; Serial No. 484,140; published Aug. 28, 1945. Class 46.

Matulich, T. J., Co.: *See*—
Matulich, T. J.

Maxwell, Ada V., doing business as Maxwell's Prepared Foods, Queens Village, N. Y. Prepared breading meal. 417,671; Nov. 6. Class 46.

Maxwell's Prepared Foods: *See*—
Maxwell, Ada V.

Mayfair Aluminum Company, New York, N. Y. Aluminum cooking utensils. 417,632; Nov. 6; Serial No. 482,633; published Aug. 21, 1945. Class 13.

McDonald and Olliff, Inc., Wauchula, Fla. Citrus juices for food purposes and fresh citrus fruits. 417,634; Nov. 6; Serial No. 482,754; published Aug. 14, 1945. Class 46.

McQuay, Inc.: *See*—
Peerless Unit Ventilation Co., Inc.

Millar, John A., East Orange, N. J. Small astronomical instrument for aid in navigation. 417,593; Nov. 6; Serial No. 459,845; published Aug. 28, 1945. Class 26.
Millett Corporation, New York, N. Y. Folded or twisted paper yarn. 417,596; Nov. 6; Serial No. 468,530; published Aug. 21, 1945. Class 43.
Minnesota Valley Canning Company, Le Sueur, Minn. Canned vegetables. 417,599; Nov. 6; Serial No. 458,017; published Aug. 21, 1945. Class 46.
Morse Chain Company, Ithaca, N. Y. Metal chains for sprockets and the like and parts thereof. 417,640; Nov. 6; Serial No. 483,076; published Aug. 21, 1945. Class 13.
National Ring & Leather Corporation, Mansfield, Ohio. Wallets. 417,611; Nov. 6; Serial No. 479,439; published Aug. 28, 1945. Class 3.
National Roll & Foundry Company, The, Borough of Avonmore, County of Westmoreland, Pa. Iron and steel castings. 417,617; Nov. 6; Serial No. 481,236; published Aug. 21, 1945. Class 14.
New Orleans Coffee Co. Ltd., to American Coffee Company, Inc., New Orleans, La. Roasted and ground coffee. 46,629; re-renewed Sept. 26, 1945. O. G. Nov. 6. Class 46.
Niederer, Otto, Sons, Inc., Titusville, N. J. Apparatus for candling, grading, and handling eggs. 417,646; Nov. 6; Serial No. 483,867; published Aug. 28, 1945. Class 26.
Norda Essential Oil & Chemical Co., Inc., New York, N. Y. Face powders, face creams, toilet waters, etc. 204,933; renewed Oct. 27, 1945. O. G. Nov. 6. Class 6.
Norton Company, Worcester, Mass. Oilstones, abrasive stones, cleaning stones, etc. 417,612; Nov. 6; Serial No. 479,594; published Aug. 21, 1945. Class 4.
Obrecht, G. Fred, doing business as Gerard Milk Products Company, Baltimore, Md. Composition of dried buttermilk, dried skimmed milk, and processed feeding malt. 417,674; Nov. 6. Class 46.
Panda Frosty Foods, Los Angeles, Calif. Fresh frozen boysenberries. 417,667; Nov. 6. Class 46.
Panno, Carlo, Fruit Co., Pico, Calif. Fresh citrus fruits. 417,666; Nov. 6. Class 46.
Parfait, Incorporated, Chicago, Ill. Leather cosmetic bags and purse kits. 417,672; Nov. 6. Class 3.
Parfumerie Roger et Gallet, Paris, France. Toilet powders. 194,057; renewed Jan. 13, 1945. O. G. Nov. 6. Class 6.
Parfums Corday, Inc.: *See*—
Thorpe, Jay, Inc.
Peerless Unit Ventilation Co., Inc., Long Island City, N. Y., to McQuay, Inc., Minneapolis, Minn. Heating and ventilating units and casings therefor. 204,104; renewed Oct. 6, 1945. O. G. Nov. 6. Class 34.
Plastic Die and Tool Corporation, Los Angeles, Calif. Plastic products. 417,609; Nov. 6; Serial No. 479,047; published Aug. 21, 1945. Class 13.
Price Detergent Co.: *See*—
Price, Robert H.
Price, Robert H., doing business as Price Detergent Co., Shelton, Mass. Preparation for cleaning painted and varnished surfaces, upholstery, rugs, etc. 417,628; Nov. 6; Serial No. 482,394; published Aug. 21, 1945. Class 4.
Prince, H. G., & Co., Fruitvale, Oakland, to California Packing Corporation, San Francisco, Calif. Canned fruits. 204,615; renewed Oct. 20, 1945. O. G. Nov. 6. Class 46.
"Pronunciation": *See*—
Bellows, Bertram B.
Rayenergy Radio and Television Corporation of America, New York, N. Y. Radio receivers, radio transmitters, and electric appliances. 417,670; Nov. 6. Class 21.
Remington Salt Company, Ithaca, to Worcester Salt Company, New York, N. Y. Salt. 207,807; renewed Jan. 12, 1946. O. G. Nov. 6. Class 46.
Rice-Stix Dry Goods Company, St. Louis, Mo. Women's, misses' and children's dresses and aprons. 207,625; renewed Jan. 5, 1946. O. G. Nov. 6. Class 39.
Richardson, Roberts Dry Goods Co., St. Joseph, Mo., to American Bleached Goods Company, Inc., New York, N. Y. Table and stand covers and towels, napkins, and doilies. 47,336; re-renewed Oct. 31, 1945. O. G. Nov. 6. Class 42.
Rodelle Laboratories, Inc., Denver, Colo. Flavorings and fondants for food purposes. 417,652; Nov. 6; Serial No. 484,361; published Aug. 28, 1945. Class 46.
Romanoff Caviar Company, New York, N. Y. Powdered gravy mix, powdered soup mixes, etc. 417,616; Nov. 6; Serial No. 481,083; published Aug. 28, 1945. Class 46.
Rosenberg Bros. & Co., San Francisco, Calif. Dried fruits. 207,371; renewed Dec. 29, 1945. O. G. Nov. 6. Class 46.
Rosenstein Bros., Paterson, N. J. Fabrics in the piece consisting of wool, silk, cotton, etc. 417,624; Nov. 6; Serial No. 481,716; published Aug. 21, 1945. Class 42.
Safeway Stores, Incorporated, Los Angeles, to Safeway Stores, Incorporated, Oakland, Calif. Matches. 200,927; renewed July 14, 1945. O. G. Nov. 6. Class 9.
Safeway Stores, Incorporated, Los Angeles, to Safeway Stores, Incorporated, Oakland, Calif., and Baltimore, Md. Brooms. 206,116; renewed Nov. 24, 1945. O. G. Nov. 6. Class 29.
Scholl Manufacturing Company, Inc., to The Scholl Mfg. Co., Inc., Chicago, Ill. Device for obtaining an impression of the contour of the sole of the foot. 204,815; renewed Oct. 27, 1945. O. G. Nov. 6. Class 26.
Scholl Mfg. Co., Inc., The: *See*—
Scholl Manufacturing Company, Inc.
Selby Shoe Company, The: *See*—
Ground Gripper Shoe Company, Inc.
Silverite Gutterman Co., Boston, Mass. Boot polish, liquid white shoe cream, and shoe soap. 417,631; Nov. 6; Serial No. 482,556; published Aug. 21, 1945. Class 4.
Simmons Company, New York, N. Y. Mattresses. 417,651; Nov. 6; Serial No. 484,326; published Aug. 28, 1945. Class 32.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Silk and cotton goods in the piece. 207,943; renewed Jan. 12, 1946. O. G. Nov. 6. Class 42.
Sinclair Refining Company, New York, N. Y. Light, medium, and heavy compounded oil. 417,649; Nov. 6; Serial No. 484,186; published Aug. 28, 1945. Class 15.
Southern Foundation, The, Washington, D. C. Boxes. 417,655; Nov. 6. Class 28.
Spratt's Patent (America) Limited: *See*—
Spratt's Patent Limited.
Spratt's Patent Limited, London, England, to Spratt's Patent (America) Limited, Newark, N. J. Food substances and preparations for dogs, poultry, and game. 204,003; renewed Oct. 6, 1945. O. G. Nov. 6. Class 46.
Squire, John P., & Company, East Cambridge, Mass., to Swift & Company, Chicago, Ill. Packing-house products. 204,433; renewed Oct. 20, 1945. O. G. Nov. 6. Class 46.
Standard Bottling Co., The, Denver, Colo. Nonalcoholic, maltless beverages and table waters. 206,935; renewed Dec. 15, 1945. O. G. Nov. 6. Class 45.
Stetson, John B., Company, Philadelphia, Pa. Hats and caps. 47,775; re-renewed Nov. 21, 1945. O. G. Nov. 6. Class 39.
Street & Smith, to Street & Smith Publications, Inc., New York, N. Y. Monthly magazine. 45,869; renewed Aug. 29, 1945. O. G. Nov. 6. Class 38.
Street & Smith Corporation, to Street & Smith Publications, Inc., New York, N. Y. Magazines. 202,895; renewed Sept. 8, 1945. O. G. Nov. 6. Class 38.
Street & Smith Publications, Inc.: *See*—
Street & Smith.
Street & Smith Corporation.
Subscription Playing Cards: *See*—
Flynn, Lawrence J.
Sumet Corporation, Buffalo, N. Y. Bearing metals, cored and solid bars, gear blanks, etc. 417,629; Nov. 6; Serial No. 482,401; published Aug. 28, 1945. Class 14.
Swift & Company: *See*—
Squire, John P., & Company.
Tasty Food Products Corp.: *See*—
Voss, Peter.
Tecla Corp.: *See*—
Tecla Corporation.
Tecla Corporation, to Tecla Corp., New York, N. Y. Perfumes. 204,749; renewed Oct. 27, 1945. O. G. Nov. 6. Class 6.
Tex-Rock Insulation Co., Temple, Tex. Rock wool insulation. 417,677; Nov. 6. Class 12.
Thorpe, Jay, Inc., to Parfums Corday, Inc., New York, N. Y. Sachet, bath tablets, toilet water, etc. 206,799; renewed Dec. 8, 1945. O. G. Nov. 6. Class 6.
Tillman & Bendel, Inc., San Francisco, assignor to Clear Lake Cannery, Inc., to Clear Lake Cannery, Inc., Upper Lake, Calif. Canned string beans. 208,229; renewed Jan. 19, 1946. O. G. Nov. 6. Class 46.
Toyad Corporation, Pittsburgh, Pa. Dice game. 417,653; Nov. 6; Serial No. 485,616; published Aug. 28, 1945. Class 22.
United Drug Company, to United-Rexall Drug Company, Boston, Mass. Nursing nipples. 201,624–5; renewed Aug. 4, 1945. O. G. Nov. 6. Class 44.
United Hydraulic Mfg. Co., Los Angeles, Calif. Circuit tester for testing electrical currents. 417,597; Nov. 6; Serial No. 469,854; published Aug. 28, 1945. Class 26.
United-Rexall Drug Company: *See*—
United Drug Company.
Vidal Distilled Liquors Inc., San Juan, P. R. Rum. 417,678; Nov. 6. Class 49.
Vio Bin Corporation, Monticello, Ill. Defatted sunflower seeds. 417,599; Nov. 6; Serial No. 471,581; published Aug. 28, 1945. Class 46.
Virden Packing Company, San Francisco, Calif., to Armour and Company, Chicago, Ill. Ham. 204,026; renewed Oct. 6, 1945. O. G. Nov. 6. Class 46.
Voss, Peter, doing business as Tasty Food Products Corp., Washington, D. C. Powdered seasoning. 417,637; Nov. 6; Serial No. 482,907; published Aug. 28, 1945. Class 46.
Waitt & Bond, Inc., Newark, N. J. Cigars. 207,485; renewed Jan. 5, 1946. O. G. Nov. 6. Class 17.
Walton, Robert J., doing business as Walton Tool Company, Chicago, Ill. Lubricant used as coolant. 417,633; Nov. 6; Serial No. 482,718; published Aug. 21, 1945. Class 15.
Walton Tool Company: *See*—
Walton, Robert J.
Warp, Harold: *See*—
Flex-O-Glass Manufacturing Company.



Warren Trading Corp., New York, N. Y. Watches. 417,662; Nov. 6. Class 27.
Watkins, J. R., Company, The, Winona, Minn. Cocoa, almond extract, cinnamon flavor, etc. 207,040; renewed Dec. 15, 1945. O. G. Nov. 6. Class 46.
Weiss, A., doing business as A. Weiss Wholesale Hosiery, Chicago, Ill. Men's hosiery. 417,676; Nov. 6. Class 39.
Weiss, A., Wholesale Hosiery: *See*—
Weiss, A.
Wellington, Sears & Co., Boston, Mass., to Wellington Sears Company, Incorporated, New York, N. Y. Cotton duck. 46,167; re-renewed Sept. 5, 1945. O. G. Nov. 6. Class 42.
Wellington, Sears & Company, to Wellington Sears Company, Incorporated, New York, N. Y. Piece batiste. 201,993; renewed Aug. 11, 1945. O. G. Nov. 6. Class 42.
Wellington Sears Company, Incorporated: *See*—
Wellington, Sears & Co.
Wellington, Sears & Company.
Winthrop Chemical Company, Inc.: *See*—
Kalle and Company, Aktiengesellschaft.
Worcester Salt Company: *See*—
Remington Salt Company.
Wrightson, Chas. T., & Son, to Chas. T. Wrightson & Son, Inc., Easton, Md. Canned vegetables. 206,567; renewed Dec. 8, 1945. O. G. Nov. 6. Class 46.
Wrightson, Chas. T., & Son, Inc.: *See*—
Wrightson, Chas. T., & Son.
Wyler, Paul, New York, N. Y. Watches. 417,664; Nov. 6. Class 27.
Zero Hour Bomb Company, Tulsa, Okla. Bombs. 417,626; Nov. 6; Serial No. 481,824; published Aug. 28, 1945. Class 9.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Leather, Unfinished and partly finished. Allied Kid Company. 417,644; Nov. 6; Serial No. 483,599; published Aug. 28, 1945.

## CLASS 2

Cartons for use on bottles, lamp-chimneys, electric-lamp bulbs, etc. Hinde & Dauch Paper Company. 48,402; re-renewed Dec. 26, 1945. O. G. Nov. 6.
Vaults, Burial. Wilbert W. Haase Co. 417,669; Nov. 6.

## CLASS 3

Bags and purse kits, Leather cosmetic. Parfait, Incorporated. 417,672; Nov. 6.
Pocketbooks, portfolios, and purses. Kadin Bros. Inc. 417,605; Nov. 6; Serial No. 477,196; published Aug. 28, 1945.
Wallets. National Ring & Leather Corporation. 417,611; Nov. 6; Serial No. 479,439; published Aug. 28, 1945.

## CLASS 4

Cleansing preparation for general household, toilet, and laundry use. G. F. Brown. 417,594; Nov. 6; Serial No. 464,848; published Aug. 21, 1945.
Lotion, bath soap, hand soap, etc., Shaving. Lightfoot Schultz Co. 417,595; Nov. 6; Serial No. 467,893; published Aug. 21, 1945.
Oilstones, abrasive stones, cleaning stones, etc. Norton Company. 417,612; Nov. 6; Serial No. 479,594; published Aug. 21, 1945.
Polish, liquid white shoe cream and shoe soap, Boot. Silverite Gutterman Co. 417,631; Nov. 6; Serial No. 482,556; published Aug. 21, 1945.
Polish, Metal. Boco Company. 417,625; Nov. 6; Serial No. 481,831; published Aug. 21, 1945.
Preparation for cleaning painted and varnished surfaces, upholstery, rugs, etc. R. H. Price. 417,628; Nov. 6; Serial No. 482,394; published Aug. 21, 1945.
Soaps, Laundry, toilet, and shaving. F. L. Falck & Co. 47,878; re-renewed Nov. 28, 1945. O. G. Nov. 6.
Wheels, Unmounted abrasive. E. C. Atkins and Company. 200,760; renewed July 7, 1945. O. G. Nov. 6.

## CLASS 5

Tapes, Colored, translucent, and non-transparent adhesive. Industrial Tape Corporation. 417,602; Nov. 6; Serial No. 474,450; published Aug. 28, 1945.

## CLASS 6

Perfumes. Tecla Corporation. 204,749; renewed Oct. 27, 1945. O. G. Nov. 6.
Pharmaceutical and therapeutical preparations. Kalle and Company, Aktiengesellschaft. 206,674; renewed Dec. 8, 1945. O. G. Nov. 6.
Powders, face creams, toilet waters, etc., Face. Norda Essential Oil & Chemical Co., Inc. 204,933; renewed Oct. 27, 1945. O. G. Nov. 6.
Powders, Toilet. Parfumerie Roger et Gallet. 194,057; renewed Jan. 13, 1945. O. G. Nov. 6.
Sachet, bath tablets, toilet water, etc. Jay Thorpe, Inc. 206,799; renewed Dec. 8, 1945. O. G. Nov. 6.

## CLASS 9

Bombs. Zero Hour Bomb Company. 417,626; Nov. 6; Serial No. 481,824; published Aug. 28, 1945.
Matches. Safeway Stores, Incorporated. 200,927; renewed July 14, 1945. O. G. Nov. 6.

## CLASS 10

Fertilizer and soil conditioner, Combination. Atkins & Durbrow, Inc. 417,642; Nov. 6; Serial No. 483,164; published Aug. 28, 1945.

## CLASS 11

Inks. J. S. St. B. Baker. 417,603; Nov. 6; Serial No. 474,474; published Aug. 21, 1945.
Typewriter supplies. B. D. Brilles. 417,608; Nov. 6; Serial No. 479,025; published Aug. 21, 1945.

## CLASS 12

Insulation, Rock wool. Tex-Rock Insulation Co. 417,677; Nov. 6.

## CLASS 13

Chains for sprockets and the like, and parts thereof, Metal. Morse Chain Company. 417,640; Nov. 6; Serial No. 483,076; published Aug. 21, 1945.
Hasps. Master Lock Company. 417,636; Nov. 6; Serial No. 482,884; published Aug. 21, 1945.
Plastic products. Plastic Die and Tool Corporation. 417,609; Nov. 6; Serial No. 479,047; published Aug. 21, 1945.
Utensils, Aluminum cooking. Mayfair Aluminum Company. 417,632; Nov. 6; Serial No. 482,633; published Aug. 21, 1945.

## CLASS 14

Castings, Iron and steel. National Roll & Foundry Company. 417,617; Nov. 6; Serial No. 481,236; published Aug. 21, 1945.
Plates, sheets, bars, etc., Steel. American Tank and Fabricating Company. 417,606; Nov. 6; Serial No. 477,346; published Aug. 28, 1945.
Metals, cored and solid bars, gear blanks, etc., Bearing. Sumet Corporation. 417,629; Nov. 6; Serial No. 482,401; published Aug. 28, 1945.
Steel forgings. Heppenstall Company. 417,623; Nov. 6; Serial No. 481,705; published Aug. 14, 1945.
Steel, Tool. Edgar Allen & Company Limited. 417,630; Nov. 6; Serial No. 482,409; published Aug. 28, 1945.
Wires, Composite metal. Callite Tungsten Corporation. 417,622; Nov. 6; Serial No. 481,663; published Aug. 21, 1945.

## CLASS 15

Lubricant used as a coolant. R. J. Walton. 417,633; Nov. 6; Serial No. 482,718; published Aug. 21, 1945.
Oil, Light, medium, and heavy compounded. Sinclair Refining Company. 417,649; Nov. 6; Serial No. 484,186; published Aug. 28, 1945.
Wax composition. A. Aufhauser. 417,645; Nov. 6; Serial No. 483,755; published Aug. 21, 1945.

## CLASS 16

Paints and asphaltic printing and sealing paints, Asphaltic. Cork Import Corporation. 417,619; Nov. 6; Serial No. 481,523; published Aug. 21, 1945.
Paints and glazing compounds, Prepared. Dad & Lad Co. 417,627; Nov. 6; Serial No. 481,944; published Aug. 28, 1945.
Paints, Ready mixed. M. W. Kellogg Company. 417,601; Nov. 6; Serial No. 474,125; published Aug. 21, 1945.
Pigments, Black. Binney & Smith Company. 207,293; renewed Dec. 29, 1945. O. G. Nov. 6.
Preparations for removing paints, lacquers, enamels, etc. Fidelity Chemical Products Corp. 417,618; Nov. 6; Serial No. 481,472; published Aug. 14, 1945.

## CLASS 17

Cigars. Waitt & Bond, Inc. 207,485; renewed Jan. 5, 1946. O. G. Nov. 6.

## CLASS 21

Radio receivers, radio transmitters, and electric appliances. Rayenergy Radio and Television Corporation of America. 417,670; Nov. 6.

CLASS 22

Board game. E. S. Lowe Company, Inc. 417,638; Nov. 6; Serial No. 482,936; published Aug. 28, 1945.
Card game. B. B. Bellows. 417,668; Nov. 6.
Cards, Playing. L. J. Flynn. 417,613; Nov. 6; Serial No. 481,015; published Aug. 28, 1945.
Dice game. Toyad Corporation. 417,653; Nov. 6; Serial No. 485,616; published Aug. 28, 1945.

CLASS 23

Mufflers, Automobile. Windsor Lloyd Products Co. 417,656; Nov. 6.

CLASS 26

Apparatus for candling, grading, and handling eggs. Otto Niederer Sons, Inc. 417,646; Nov. 6; Serial No. 483,867; published Aug. 28, 1945.
Astronomical instrument for aid in navigation, Small. J. A. Millar. 417,502; Nov. 6; Serial No. 459,845; published Aug. 28, 1945.
Cameras, portable cameras, and precision cameras, Lithographic. American Type Founders Sales Corporation. 417,643; Nov. 6; Serial No. 483,564; published Aug. 14, 1945.
Device for obtaining an impression of the contour of the sole of the foot. Scholl Manufacturing Company, Inc. 204,815; renewed Oct. 27, 1945. O. G. Nov. 6.
Tester for testing electrical currents, Circuit. United Hydraulic Mfg. Co. 417,597; Nov. 6; Serial 469,854; published Aug. 28, 1945.

CLASS 27

Watches. Warren Trading Corp. 417,662; Nov. 6.
Watches. P. Wyler. 417,664; Nov. 6.

CLASS 28

Rosaries. Southern Foundation. 417,655; Nov. 6.

CLASS 29

Brooms. Safeway Stores, Incorporated. 206,116; renewed Nov. 24, 1945. O. G. Nov. 6.

CLASS 32

Drawers, Chest of. Camden Furniture Company. 417,657; Nov. 6.
Mattresses. Simmons Company. 417,651; Nov. 6; Serial No. 484,326; published Aug. 28, 1945.

CLASS 34

Heating and ventilating units and casings therefor. Peerless Unit Ventilation Co., Inc. 204,104; renewed Oct. 6, 1945. O. G. Nov. 6.

CLASS 35

Tire retread stock, Vulcanizable. General Tire & Rubber Company. 417,639; Nov. 6; Serial No. 483,056; published Aug. 28, 1945.

CLASS 37

Paper, air mail envelopes, printing paper, etc. Agency Paper Company. 417,641; Nov. 6; Serial No. 483,128; published Aug. 28, 1945.
Paper, Legal. A. M. Bell. 417,658; Nov. 6.
Pens and mechanical pencils, Fountain. Eversharp, Inc. 417,635; Nov. 6; Serial No. 482,794; published Aug. 28, 1945.

CLASS 38

Magazine, Monthly. Street & Smith. 45,869; re-renewed Aug. 29, 1945. O. G. Nov. 6.
Magazines. Street & Smith Corporation. 202,895; renewed Sept. 8, 1945. O. G. Nov. 6.
Textbooks, School. American Book Company. 46,735; re-renewed Oct. 3, 1945. O. G. Nov. 6.

CLASS 39

Boots and shoes, Leather and fabric. Ground Gripper Shoe Company, Inc. 207,023; renewed Dec. 15, 1945. O. G. Nov. 6.
Boots and shoes, negligee and under shirts, hats, etc. Fortnum & Mason Limited. 199,043; renewed June 2, 1945. O. G. Nov. 6.
Dresses and aprons, Women's, misses', and children's. Rice-Stix Dry Goods Company. 207,625; renewed Jan. 5, 1946. O. G. Nov. 6.
Hats and caps. John B. Stetson Company. 47,775; re-renewed Nov. 21, 1945. O. G. Nov. 6.
Hosiery, Men's. A. Weiss. 417,676; Nov. 6.
Nightgowns, pajamas, and slips, Women's and misses'. Collegiate Manufacturing Company, Inc. 417,661; Nov. 6.

CLASS 42

Cotton duck. Wellington, Sears & Co. 46,167; re-renewed Sept. 5, 1945. O. G. Nov. 6.
Covers and towels, napkins, and doilies, Table and stand. Richardson, Roberts Dry Goods Co. 47,336; re-renewed Oct. 31, 1945. O. G. Nov. 6.
Fabrics in the piece consisting of wool, silk, cotton, etc. Rosenstein Bros. 417,624; Nov. 6; Serial No. 481,716; published Aug. 21, 1945.
Piece batiste. Wellington, Sears & Company. 201,993; renewed Aug. 11, 1945. O. G. Nov. 6.
Silk and cotton goods in the piece. Wm. Simpson, Sons & Co. 207,943; renewed Jan. 12, 1946. O. G. Nov. 6.

CLASS 43

Yarn, Folded or twisted paper. Millett Corporation. 417,596; Nov. 6; Serial No. 468,530; published Aug. 21, 1945.

CLASS 44

Dental plaster of Paris. Certain-teed Products Corporation. 417,660; Nov. 6; Serial No. 472,444; published Aug. 28, 1945.
Manicure articles. C. J. Bates. 417,650; Nov. 6.
Nipples, Nursing. United Drug Company. 201,624-5; renewed Aug. 4, 1945. O. G. Nov. 6.

CLASS 45

Nonalcoholic, maltless beverages, and table waters. Standard Bottling Co. 206,935; renewed Dec. 15, 1945. O. G. Nov. 6.

CLASS 46

Boysenberries, Fresh frozen. Panda Frosty Foods. 417,667; Nov. 6.
Buttermilk, dried skimmed milk, and processed feeding malt, Composition of dried. G. F. Obrecht. 417,674; Nov. 6.
Cake, Fruit. California Fruitarge, Inc. 417,615; Nov. 6; Serial No. 481,058; published Aug. 28, 1945.
Cakes and cookies, General line. Burton & Dreyer. 417,621; Nov. 6; Serial No. 481,610; published Aug. 28, 1945.
Candy and salt peanuts. C. H. Cox. 417,673; Nov. 6.
Canned fruits. H. G. Prince & Co. 204,618; renewed Oct. 20, 1945. O. G. Nov. 6.
Canned string beans. Clear Lake Cannery, Inc. 208,229; renewed Jan. 19, 1945. O. G. Nov. 6.
Canned string beans. Tillman & Bendel, Inc. 208,229; renewed Jan. 19, 1946. O. G. Nov. 6.
Canned vegetables. Minnesota Valley Canning Company. 417,592; Nov. 6; Serial No. 458,017; published Aug. 21, 1945.
Canned vegetables. Chas. T. Wrightson & Son. 206,567; renewed Dec. 8, 1945. O. G. Nov. 6.
Chocolate preparation. Cream of Chocolate Company of America. 207,305; renewed Dec. 29, 1945. O. G. Nov. 6.
Cocoa, almond extract, cinnamon flavor, etc. J. R. Watkins Company. 207,040; renewed Dec. 15, 1945. O. G. Nov. 6.
Coffee, Roasted and ground. New Orleans Coffee Co. Ltd. 46,629; re-renewed Sept. 26, 1945. O. G. Nov. 6.
Compound for ruminants, Animal feed. E. I. du Pont de Nemours and Company. 417,598; Nov. 6; Serial No. 471,025; published Aug. 28, 1945.
Flavorings and fondants for food purposes. Rodelle Laboratories, Inc. 417,652; Nov. 6; Serial No. 484,361; published Aug. 28, 1945.
Food, Frosted. H. Landau. 417,663; Nov. 6.
Food substances and preparations for dogs, poultry, and game. Spratt's Patent Limited. 204,003; renewed Oct. 6, 1945. O. G. Nov. 6.
Fruits, Dried. Rosenberg Bros. & Co. 207,371; renewed Dec. 29, 1945. O. G. Nov. 6.
Fruits, Fresh citrus. Camarillo Citrus Association. 417,647; Nov. 6; Serial No. 484,118; published Aug. 28, 1945.
Fruits, Fresh citrus. Carlo Panno Fruit Co. 417,666; Nov. 6.
Fruits, Fresh deciduous. R. R. Greenberg. 417,660; Nov. 6.
Ham. Virden Packing Company. 204,026; renewed Oct. 6, 1945. O. G. Nov. 6.
Juices for food purposes and fresh citrus fruits, Citrus. McDonald and Olliff, Inc. 417,634; Nov. 6; Serial No. 482,754; published Aug. 14, 1945.
Meal, Prepared breading. A. V. Maxwell. 417,671; Nov. 6.
Mix, powdered soup mixes, etc., Powdered gravy. Romanoff Caviar Company. 417,616; Nov. 6; Serial No. 481,083; published Aug. 28, 1945.
Mustard. C. Gulden. 48,460; re-renewed Jan. 2, 1946. O. G. Nov. 6.
Packing-house products. J. P. Squire & Company. 204,433; renewed Oct. 20, 1945. O. G. Nov. 6.
Pretzels, dried currants, raisins, etc. Krambo Food Stores, Incorporated. 417,607; Nov. 6; Serial No. 477,420; published Aug. 28, 1945.
Salt. Remington Salt Company. 207,807; renewed Jan. 12, 1946. O. G. Nov. 6.
Seasoning, Powdered. P. Vess. 417,637; Nov. 6; Serial No. 482,907; published Aug. 28, 1945.



Seeds, Defatted sunflower. Vio Bin Corporation. 417,599; Nov. 6; Serial No. 471,581; published Aug. 28, 1945.
Syrup, Apple. A. Kneitel. 417,650; Nov. 6; Serial No. 484,262; published Aug. 28, 1945.
Syrups and molasses, Table. S. J. Gianelloni, Jr. 417,620; Nov. 6; Serial No. 481,533; published Aug. 28, 1945.
Vegetables, Fresh. A. T. Blakeslee. 417,675; Nov. 6.
Vegetables, Fresh. J. L. Colyer. 417,654; Nov. 6.
Vegetables, Fresh. T. J. Matulich. 417,648; Nov. 6; Serial No. 484,140; published Aug. 28, 1945.

CLASS 49

Rum. Vidal Distilled Liquors Inc. 417,678; Nov. 6.
Whiskey. Leslie Distributing Co. 417,665; Nov. 6.

CLASS 50

Awnings and tents. Hettrick Manufacturing Company. 417,604; Nov. 6; Serial No. 475,110; published Aug. 28, 1945.
Cloth for covering tents, porches, storm doors, etc., Transparent, waterproof, oiled. Flex-O-Glass Manufacturing Company. 206,256; renewed Nov. 24, 1945. O. G. Nov. 6.
Figurines, hand painted and ornamental chinaware figurines, etc., Pottery. Imperial Baker Co. 417,610; Nov. 6; Serial No. 479,074; published Aug. 28, 1945.
Leather having leather fiber content, Artificial. Hi-Goal Products Corporation. 417,614; Nov. 6; Serial No. 481,024; published Aug. 28, 1945.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bryant Heater Company, The: *See*—
Higley, Frank R., assignor.

General Electric Company: *See*—
Hill, George S., assignor.

Gramelspacher, Clarence U., assignor to Jasper Wood Crafters, Inc., Jasper, Ind. Veneer molding process. Re. 22,687; Nov. 6.

Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Thermal responsive device. Re. 22,688; Nov. 6.

Hill, George S., North East, Pa., assignor to General Electric Company. Ice making apparatus. Re. 22,689; Nov. 6.

Jasper Wood Crafters, Inc.: *See*—
Gramelspacher, Clarence U., assignor.

Koeln, Carl C., St. Louis County, Mo. Removable drilling bit. Re. 22,690; Nov. 6.

# LIST OF DESIGN PATENTEES

Adel Precision Products Corp.: *See*—
Chapman, Harvey G., Jr., assignor.

Allen, Howard D., Los Angeles, Calif. Toy wheelbarrow. 142,762; Nov. 6.

Allen, Howard D., Los Angeles, Calif. Toy wheelbarrow. 142,763; Nov. 6.

Allen, Howard D., Los Angeles, Calif. Toy wheelbarrow. 142,764; Nov. 6.

Allen, Howard D., Los Angeles, Calif. Toy wheelbarrow. 142,765; Nov. 6.

Anderson, Gustave A., Chicago, Ill. Milking machine claw. 142,766; Nov. 6.

Antritter, Max, Leicester, assignor to Haskins Manufacturing Company, Rochdale, Mass. Hair ornament. 142,767; Nov. 6.

Batlin, Herman, New York, N. Y. Music cabinet. 142,768; Nov. 6.

Bird, Harold S., Belmont, Mass. Automatic emergency lighting unit or similar article. 142,769; Nov. 6.

Boening, Rudolf F., Valparaiso, Ind. Bowling game board. 142,770; Nov. 6.

Burgess Battery Company: *See*—
Schofield, Earl L., assignor.

Chapman, Harvey G., Jr., Glendale, Calif., assignor to Adel Precision Products Corp. Housing for a solenoid operated valve. 142,771; Nov. 6.

Cline, George D., Jr., Detroit, Mich., assignor to Heller Brothers Company, Newark, N. J. Hammer. 142,772; Nov. 6.

Davidson, William A.: *See*—
Matthews, J. R., and Davidson.

Davis, Russell E., assignor to Hussman-Ligonier Company, St. Louis, Mo. Refrigerated display case. 142,773; Nov. 6.

Dice, Harold E., Canton, Ohio. Display plate for automobiles. 142,774; Nov. 6.

Di Rebaylio, Leo, Culver City, Calif. Memorandum note pad unit. 142,775; Nov. 6.

Downey, William H. J., Wilmington, Del. Combined pipe rack and match holder. 142,776; Nov. 6.

Duranol Products, Inc.: *See*—
Salinger, Morris, assignor.

Eastham, Melville, assignor to General Radio Company, Cambridge, Mass. Control knob or similar article. 142,777; Nov. 6.

Ellmore Silver Company, Inc., The: *See*—
Lipman, Isidore A., assignor.

General Radio Company: *See*—
Eastham, Melville, assignor.

Genske, Hugh, Philadelphia, Pa., assignor to Sunset, Incorporated, Chicago, Ill. Bottle. 142,778; Nov. 6.

Golden, Zelma, New York, N. Y. Dress. 142,779; Nov. 6.

Groff, Stella M., Santa Ana, Calif. Boudoir slipper. 142,780; Nov. 6.

Grossman Music Company: *See*—
Thompson, Josephus, assignor.

Haskins Manufacturing Company: *See*—
Antritter, Max, assignor.

Heller Brothers Company: *See*—
Cline, George D., Jr., assignor.

Hentz, Eta, New York, N. Y. Combined belt and purse. 142,781; Nov. 6.

Hentz, Eta, New York, N. Y. Combined belt and purse. 142,782; Nov. 6.

Hussman-Ligonier Company: *See*—
Davis, Russell E., assignor.

Jacobson, Alfred M., Houston, Tex. Bottle carrier. 142,783; Nov. 6.

Jones, Dwight C., Whittier, assignor to Zephyr Manufacturing Co., Inglewood, Calif. Cigarette lighter. 142,784; Nov. 6.

Kroll, Nathan J.: *See*—
Kroll, Samuel and N. J.

Kroll, Samuel and N. J., Chicago, Ill. Carriage hood. 142,785; Nov. 6.

La Salle, Ernest V.: *See*—
Running, G. L., and La Salle.

Lipman, Isidore A., assignor to The Ellmore Silver Company, Meriden, Conn. Fork or other article of flatware. 142,786; Nov. 6.

Marsh, Gerald M., Liberty, Mo. Fishing float. 142,787; Nov. 6.

Mason, J. H., et al.: *See*—
Matthews, J. R., and Davidson, assignors.

Mason, P. H., et al.: *See*—
Matthews, J. R., and Davidson, assignors.

Mason, W. D., et al.: *See*—
Matthews, J. R., and Davidson, assignors.

Matthews, Jessie R., and W. A. Davidson, assignors of seventeen one-hundredths to P. H. Mason, seventeen one-hundredths to W. D. Mason, and seventeen one-hundredths to J. H. Mason, Norfolk, Va. Corner marker. 142,788; Nov. 6.

Papkin, David, assignor to Sargent & Company, New Haven, Conn. Food chopper. 142,789; Nov. 6.

Plastic Treasures Inc.: *See*—
Winston, G., and Sawyer, assignors.

Redpath, Cargill W., Kansas City, Mo. Game board. 142,790; Nov. 6.

Reeves, Charles R., Detroit, Mich. Cribbage board. 142,791; Nov. 6.

Ripich, John J., Cleveland, Ohio. Crucible or similar article. 142,792; Nov. 6.

Running, Gerhard L., and E. V., La Salle, Minneapolis, Minn. Hog feeder. 142,793; Nov. 6.

Salinger, Morris, assignor to Duranol Products, Inc., Brooklyn, N. Y. Hand mirror. 142,794; Nov. 6.

Sargent & Company: *See*—
Papkin, David, assignor.

Sawyer, Albert B.: *See*—
Winston, G., and Sawyer.

Schlumbohm, Peter, New York, N. Y. Insulated container for bottles. 142,795; Nov. 6.

Schofield, Earl L., Rockford, assignor to Burgess Battery Company, Freeport, Ill. Flashlight. 142,796; Nov. 6.

Sunset, Incorporated: *See*—
Genske, H., assignor.

Taylor, Eldridge B., Cleveland, Ohio. Combined serving tray, receptacle, and game device. 142,798; Nov. 6.

Taylor, William C., Washington, D. C. Cigar and cigarette holder. 142,797; Nov. 6.

Thompson, Josephus, Covington, assignor of one-third to Grossman Music Company, Cleveland, Ohio, a partnership composed of J. I. and H. S. Grossman. Kazoo. 142,799; Nov. 6.

Thonet Brothers, Inc.: *See*—
Weill, Bruno R., assignor.

Vidal Corporation: *See*—
Watson, Robert C., assignor.

Watson, Robert C., Bryn Mawr, Pa., assignor to Vidal Corporation, Camden, N. J. Chair seat-back unit. 142,800; Nov. 6.
Weill, Bruno R., Statesville, N. C., assignor to Thonet Brothers, Inc., New York, N. Y. Chair or similar article. 142,801; Nov. 6.
Weill, Bruno R., Statesville, N. C., assignor to Thonet Brothers, Inc., New York, N. Y. Chair or similar article. 142,802; Nov. 6.
Winston, George, and A. B. Sawyer, Brooklyn, assignors to Plastic Treasures Inc., New York, N. Y. Toy or similar article. 142,803; Nov. 6.
Zahn, Samuel, New York, N. Y. Dress. 142,804; Nov. 6.
Zahn, Samuel, New York, N. Y. Dress. 142,805; Nov. 6.
Zephyr Manufacturing Co.: *See*—
Jones, Dwight C., assignor.
Zimmerman, Charles E., Chicago, Ill. Glove. 142,806; Nov. 6.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1945.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories: *See*—
Frost, Douglas V., assignor.
Jones, Robert L., assignor.
Abel, George H., Huntingdon Valley, Pa. Welder's protective cape. 2,388,234; Nov. 6.
Ace Glass Incorporated: *See*—
De Woody, Charles M., assignor.
Ackerman, Chester W., and E. A. Fierbaugh, Ashland, Ohio. Load protecting mechanism. 2,388,304; Nov. 6.
Aga-Baltic Aktiebolag: *See*—
Granqvist, Carl-Erik, assignor.
Agriculture of the United States of America, Claude R. Wickard, and his successors in office, Secretary of: *See*—
Rehberg, C. E., and Fisher, assignors.
Air-Way Electric Appliance Corporation: *See*—
Nuffer, J. H., and Latta, assignors.
Aktiebolaget Defibrator: *See*—
Asplund, A. J. A., and Holst, assignors.
Aktiebolaget J. C. Ljungman: *See*—
Eklund, Hans E., assignor.
Albers, John R., assignor to Wincharger Corporation, Sioux City, Iowa. Electric wind plant. 2,388,377; Nov. 6.
Alfonte, James R., U. S. Army, Fortville, Ind. Fork-lift truck. 2,388,458; Nov. 6.
Alien Property Custodian: *See*—
De Lange, C., and Boucher.
Ganiayre, A., and Hardy.
Higonnet, R. A., and Chereau.
Komenda, Erwin.
Wünsch, Guido.
Allen, Charles S., Jr., Greenville, S. C. Bomb. 2,388,459; Nov. 6.
Alliance Machine Company, The: *See*—
Harry, Robert J., assignor.
Allied Chemical & Dye Corporation: *See*—
Engel, Karl H., assignor.
Altobelli, Fulgenzio, assignor of two-fifths to T. E. Simonton, Syracuse, N. Y. Double-piped garment opening. 2,388,516; Nov. 6.
Aluminum Company of America: *See*—
Hartmann, Ernest C., assignor.
Horak, Gustave J., assignor.
Nock, J. A., Jr., and Bossert, assignors.
American Cyanamid Company: *See*—
Hull, Washington, assignor.
Schroy, P. C., Grabowski, and Scott, assignors.
American Machine and Metals, Inc.: *See*—
Davis, Archibald H., Jr., assignor.
American Optical Company: *See*—
Weyl, Woldemar A., assignor.
American Smelting and Refining Company: *See*—
Fleming, E. P., and Fitt, assignors.
American Soil Products Co., Inc.: *See*—
Schrader, Walter, assignor.
American Steel and Wire Company of New Jersey, The: *See*—
Hallstrom, C. A., and Tibbetts, assignors.
American Viscose Corporation: *See*—
Decker, Ferdinand A., Jr., assignor.
Amore, Leo J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Grid structure for ice trays. 2,388,378; Nov. 6.
Anderson, Miner S., Wabasha, Minn. Toy wagon and steering the same. 2,388,629; Nov. 6.
Andreas, John M., Pasadena, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Continuous stip-handling reel. 2,388,501; Nov. 6.
Appling, William L., Uvalde, Tex. Photographic device. 2,388,240: Nov. 6.
Arens, Charles A., assignor to Arens Controls, Inc., Chicago, Ill. Transmission cable. 2,388,241; Nov. 6.
Arens Controls, Inc.: *See*—
Arens, Charles A., assignor.
Arndt, John P., Jr., Euclid, assignor to The Brush Development Company, Cleveland, Ohio. Piesoelectric transducer. 2,388,242; Nov. 6.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Carton. 2,388,243; Nov. 6.
Ashton, Charles E., Stockton, Calif. Parachute harness. 2,388,379; Nov. 6.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,388,244; Nov. 6.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,388,245; Nov. 6.
Asplund, Arne J. A., Alsten, and J. W. Holst, assignors to Aktiebolaget Defibrator, Stockholm, Sweden. Making ligno-cellulose pulps from straw. 2,388,592; Nov. 6.
Atlas Powder Company: *See*—
Rolland, Guy F., assignor.
Attapulgus Clay Company: *See*—
La Lande, William A., Jr., assignor.
Automatic Turbine Drive Company, Inc.: *See*—
Popper, Charles, assignor.
Avens, Alfred W.: *See*—
Pearce, G. W., and Avens.
Badertscher, Darwin E.: *See*—
Frank, F. C., Badertscher, and Berger.
Bagley, Harold R., Tile Hill, Coventry, assignor to A. C. Wickman Limited, Coventry, England. Control mechanism for fluid operated parts of machine tools. 2,388,460; Nov. 6.
Bailey, Frank A., and G. A. Miller, assignors to The DeVilbiss Company, Toledo, Ohio. Spray coating apparatus. 2,388,517; Nov. 6.
Balocchi, Joseph J., San Francisco, Calif. Egg candling device. 2,388,518; Nov. 6.
Baker, Henry E., Milton, Mass. Paving stripping apparatus. 2,388,461; Nov. 6.
Bathurst, Cecil H., Merriam, Kans. Airplane construction. 2,388,380; Nov. 6.
Beaver Pipe Tools, Inc.: *See*—
Phillis, William A., assignor.
Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Shipper mechanism for excavating shovels. 2,388,305; Nov. 6.
Beeh, Louis, Woodside, N. Y. Multiple metering pump. 2,388,462; Nov. 6.
Bell Aircraft Corporation: *See*—
Trotter, John C., assignor.
Bell, Leroy V., Wakefield, R. I. Cigarette package cover. 2,388,519; Nov. 6.
Bell Telephone Laboratories, Incorporated: *See*—
Dowey, Thomas L., assignor.
Frosch, Carl J., assignor.
Fuller, Calvin S., assignor.
Hubbard, Francis A., assignor.
Malthaner, Wm. A., assignor.
Ronci, Victor L., assignor.
Staples, E. M., Taylor, and Michael, assignors.
Bendix Aviation Corporation: *See*—
Frazier, Radford K., assignor.
Jandasek, Joseph, assignor.
Benecke, Louis A., St. Louis, Mo. Practice golf club. 2,388,463; Nov. 6.
Bergen, Bernhard, Washington, D. C. Airplane propeller. 2,388,464; Nov. 6.
Berger, Arthur J., New York, N. Y. Pendulum impact tester. 2,388,246; Nov. 6.
Berger, Henry G.: *See*—
Frank, F. C., Badertscher, and Berger.
Bergevin, Charles R., assignor to The Torrington Manufacturing Co., Torrington, Conn. Wire coiling apparatus. 2,388,630; Nov. 6.
Bergstrom, Clara O., Portland, Oreg. Hairpin. 2,388,381; Nov. 6.
Berkow, Murray, New York, N. Y., assignor to Central Aircraft Corporation, Keyport, N. J. Airplane. 2,388,247; Nov. 6.
Bidwell, Earl E., San Diego, Calif., assignor to W. P. Innes, Jr., Wichita, Kans. Fluid meter. 2,388,248; Nov. 6.
Bilan, John, Flint, Mich. Stove. 2,388,593; Nov. 6.
Blakeney, Francis M.: *See*—
Ring, Ernest A., assignor.
Blaw-Knox Company: *See*—
Philips, G. B., and Tuuri, assignors.
Bliss, E. W., Company: *See*—
Rode, F. J., and Hatch, assignors.
Bogart, Fred H., South Euclid, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,388,594; Nov. 6.
Bokum, William F., Jenkintown, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Garnett cylinder. 2,388,631; Nov. 6.
Borg-Warner Corporation: *See*—
White, Samuel O., assignor.
Bossert, Thedore W.: *See*—
Nock, J. A., Jr., and Bossert.
Boston Machine Works Company: *See*—
Osgood, Walter P., assignor.
Botnick Motor Corporation: *See*—
Snell, Francis A., assignor.

Boucher, Charles L.: *See*—
De Lange, C., and Boucher.
Bowie, Adrian St. J., assignor to Food Machinery Corporation, San Jose, Calif. Plunger packing. 2,388,520; Nov. 6.
Bowman, Philip I., Syracuse, N. Y., and H. Burrell, Paramus, N. J., assignors, by mesne assignments, to Heyden Chemical Corporation. Nitrogen-containing resins and exchanging anions in fluid media. 2,388,235; Nov. 6.
Bowser, S. F., & Company, Incorporated: *See*—
Harvuot, Frank B., assignor.
Boyajian, James A., Chicago, Ill., assignor to J. P. Seeburg Corporation. Automatic phonograph. 2,388,595; Nov. 6.
Boyd, George S., East Cleveland, Ohio. Multiple work support. 2,388,521: Nov. 6.
Boyd, George S., East Cleveland, Ohio. Tool support. 2,388,522; Nov. 6.
Bradley, Frank: *See*—
Williamson, A. T., and Bradley.
Brandt, Philipp: *See*—
Ratti, R., and Brandt.
Branson, Norman G.: *See*—
Kuehni, H. P., and Branson.
Briggs & Stratton Corporation: *See*—
Thompson, Glenn S., assignor.
British Celanese Limited: *See*—
Stimson, Edward E., assignor.
British Oxygen Company Limited, The: *See*—
Edmondson, W., and Jones, assignors.
Brongersma, Cornelius, Muskegon Heights, assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Motor control. 2,388,382; Nov. 6.
Brooks, Robert E., Maywood Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Piezoelectric crystal. 2,388,596; Nov. 6.
Brown, Ogden & Company, Limited: *See*—
Brown, Thomas A., assignor.
Brown, Thomas A., assignor to Brown, Ogden & Company Limited, Bradford, England. Production of pile fabrics. 2,388,465; Nov. 6.
Bruce, James E.: *See*—
Peterson, J. A., and Bruce.
Brush Development Company, The: *See*—
Arndt, John P., Jr., assignor.
Buckwalter, Tracy V., Massillon, and W. L. Scribner, assignors to The Timken Roller Bearing Company, Canton, Ohio. Rolling mill. 2,388,249; Nov. 6.
Buczkoski, Leonard R., Detroit, Mich. Spring winder. 2,388,383; Nov. 6.
Buechel, Joseph C., Hollywood, Calif., assignor to General Electric Company. Lubricant heating system for turbo-superchargers and the like. 2,388,523; Nov. 6.
Burke & James, Inc.: *See*—
Drucker, Samuel, assignor.
Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bichalcogenous material. 2,388,597; Nov. 6.
Burrell, Harry: *See*—
Bowman, P. I., and Burrell.
Burwell, Blair, Uravan, Colo., assignor to United States Vanadium Corporation. Treating tungstate solutions. 2,388,306; Nov. 6.
Byerly, David R., Wyoming, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Granular soap product. 2,388,632; Nov. 6.
Cahill, Harold C., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Making coils. 2,388,598; Nov. 6.
Caldwell, Walter A., Seamill, Scotland, assignor to Imperial Chemical Industries Limited. Chemical immersion heater. 2,388,466; Nov. 6.
Campbell, Alvin A., Hackettstown, N. J. Automatic loading machine. 2,388,250; Nov. 6.
Cantin, Eugene J.: *See*—
Pumphrey, Walter H., assignor.
Card, William C., Winthrop, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Sole roughing machine. 2,388,384; Nov. 6.
Cargill, Alexander, West Palm Beach, Fla. Air propelled vehicle. 2,388,307; Nov. 6.
Carraine Frank J.: *See*—
Whittell, P., and Carraine.
Cartlidge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Material gathering and loading machine. 2,388,385; Nov. 6.
Celanese Corporation of America: *See*—
Moncrieff, R. W., and Wheatley, assignors.
Central Aircraft Corporation: *See*—
Berkow, Murray, assignor.
Certain-teed Products Corporation: *See*—
Hoggatt, Gilbert A., assignor.
Champion Paper and Fibre Company, The: *See*—
Paxton, C., and Vail, assignors.
Chemical Foundation, Incorporated, The: *See*—
Hixson, A. W., and Miller, assignors.
Chereau, Louis N.: *See*—
Higonnet, R. A., and Chereau.
Cheyney, La Verne E., assignor to Wingfoot Corporation, Akron, Ohio. Rubber hydrochloride. 2,388,651; Nov. 6.
City Engineering Company, The: *See*—
Joyce, W. E., Himes, and Wilson.
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Apparatus for absorbing decomposition products. 2,388,524; Nov. 6.
Clark, J. R., Company, The: *See*—
John, Edward T., assignor.
Cleaver-Brooks Company: *See*—
Cleaver, J. C., and Resek, assignors.
Cleaver, John C., and J. V. Resek, Whitefish Bay, assignors to Cleaver-Brooks Company, Milwaukee, Wis. Distillation unit. 2,388,599; Nov. 6.
Cleveland Pneumatic Tool Company, The: *See*—
De Mooy, John, assignor.
Coe, George B., Upper Montclair, N. J., assignor to Rockrite Processes, Inc., Stamford, Conn. Tube reducing mill. 2,388,251; Nov. 6.
Cohen, Frank A., Brooklyn, N. Y. Form constricting and molding garment. 2,388,525; Nov. 6.
Cohen, Theodore A., assignor, by mesne assignments, to Wheelco Instruments Company, Chicago, Ill. Burner control apparatus. 2,388,386; Nov. 6.
Cohen, Theodore A., assignor, by mesne assignments, to Wheelco Instruments Company, Chicago, Ill. System for measuring the time interval for moving bodies to traverse predetermined distances. 2,388,387; Nov. 6.
Cole, Edward J., Peekskill, assignor to Cole Machinery Mfg. Corp., New York, N. Y. Making grip nuts from punched blanks. 2,388,467; Nov. 6.
Cole Machinery Mfg. Corp.: *See*—
Cole, Edward J., assignor.
Coleman, Roy E., Chicago, Ill., assignor to Time, Incorporated. Preparing zein solutions directly from gluten. 2,388,388; Nov. 6.
Coleman, Roy E., Chicago, Ill., assignor to Time, Incorporated. Preparation of zein solutions directly from gluten. 2,388,389; Nov. 6.
Collins, Henry M., Shawinigan Falls, Quebec, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Polymerization in emulsion. 2,388,600; Nov. 6.
Collins, Henry M., Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Polymerization of vinyl esters. 2,388,601; Nov. 6.
Colt's Patent Fire Arms Manufacturing Company: *See*—
Ironside, George, assignor.
Webb, George, assignor.
Comey, Fred H.: *See*—
Kraft, H. T., and Comey.
Commonwealth Engineering Company of Ohio, The: *See*—
Waldie, William A., assignor.
Compo Shoe Machinery Corporation: *See*—
Card, William C., assignor.
Macdonald, Kenneth W., assignor.
Compton, Jack, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Organic sulphur compounds. 2,388,468; Nov. 6.
Cook, Stanley V., Dayton, and C. E. Waring, Oakwood, assignors to General Motors Corporation, Dayton, Ohio. Desiccating agent. 2,388,390; Nov. 6.
Cooper, Robert H., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Thiocarbamyl piperidyl sulphides. 2,388,236; Nov. 6.
Court, Frank T., assignor to Deere & Company, Moline, Ill. Retractable support. 2,388,308; Nov. 6.
Cowie, A. S., & Co.: *See*—
Raymond, Leslie R., assignor.
Craig, William L., Westport, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Preparing a coating composition. 2,388,526; Nov. 6.
Crane, Carl J., Sacramento, Calif. Slide member for measuring and marking devices. 2,388,252; Nov. 6.
Crever, Frederick E., Scotia, N. Y., assignor to General Electric Company. Electroresponsive system. 2,388,527; Nov. 6.
Crittenden, Philip L., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Magnetic track brake control apparatus. 2,388,237; Nov. 6.
Curtiss, John S., El Paso, Tex. Fuse protector device. 2,388,309; Nov. 6.
Curtiss, John S., El Paso, Tex. Blasting cap fuse protector. 2,388,310; Nov. 6.
Curtiss, John S., Jr., Belmont, Calif. Die and making same. 2,388,528; Nov. 6.
Curtiss-Wright Corporation: *See*—
Lynex, Alfred J., assignor.
Page, G. A., Jr., Jerger, Rugge, and Watson, assignors.
Palley, I. Nevin, assignor.
Czerner, Severin F., Kings Mill, Tex. Grease gun. 2,388,391; Nov. 6.
Dacey, Mary M., executor, et al.: *See*—
Moore, Thomas F.
Da Costa, Harry, London, assignor to The Plessey Company Limited, Ilford, England. Starter for internal-combustion engines. 2,388,469; Nov. 6.
Daly, Arthur O., Flossmoor, assignor to Sears, Roebuck and Co., Chicago, Ill. Barometric draft control. 2,388,253; Nov. 6.
Dahle, Joseph, West Newton, assignor, by mesne assignments, to Pro-Phy-Lac-Tic Brush Company, Northampton, Mass. Making polymeric acetals. 2,388,238; Nov. 6.





D'Alello, Gaetano F., and J. J. Pyle, Pittsfield, Mass, assignors to General Electric Company. Derivatives of aminobensene sulphonamides. 2,388,529; Nov. 6.
Daniels, John S., Rockaway, Oreg. Oil burner. 2,388,254; Nov. 6.
Daskais, Morris H., and E. K. Fields, Chicago, Ill., assignors to Research Corporation. Stabilized organic substances and stabilizing same. 2,388,255; Nov. 6.
Davies, Clarence J., assignor to National Automotive Fibres, Inc., Detroit, Mich. Ironing apparatus. 2,388,392; Nov. 6.
Davis, Archibald H., Jr., Rock Island, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Apparatus for measuring rate of movement. 2,388,256; Nov. 6.
Deal, Harmon B., Glen Ridge, N. Y., assignor to Radio Corporation of America. Power line signaling system. 2,388,530; Nov. 6.
Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Low-frequency signaling. 2,388,531; Nov. 6.
De Botelho, Martin, New York, N. Y. Cosmetic unit. 2,388,470; Nov. 6.
Decker, Ferdinand A., Jr., Parkersburg, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Thread guide. 2,388,239; Nov. 6.
Deere & Company: *See*—
Court, Frank T., assignor.
De Lange, Cornelis, and C. L. Boucher, Eindhoven, Netherlands; vested in the Alien Property Custodian. Blocking layer cell. 2,388,532; Nov. 6.
De Long, Theodore R.: *See*—
Stewart, R. R., and De Long.
De Mooy, John, Shaker Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Plate fastening device. 2,388,603; Nov. 6.
Derby Sealers, Incorporated: *See*—
Krueger, Alfred P., assignor.
De Vaney, Fred D., assignor to Erie Mining Company, Hibbing, Minn. Beneficiation of magnetite concentrates by flotation. 2,388,471; Nov. 6.
DeVilbiss Company, The: *See*—
Bailey, F. A., and Miller, assignors.
De Woody, Charles M., assignor to Ace Glass Incorporated, Vineland, N. J. Clamp for spherical joints. 2,388,633; Nov. 6.
De Woody, Charles M., assignor to Ace Glass Incorporated, Vineland, N. J. Container for aseptic filling and dispensing of sterile liquids. 2,388,634; Nov. 6.
Diem, Hans J., Bradenton, Fla. Insecticide. 2,388,393; Nov. 6.
Di Tona, Joseph O. C., Newark, N. J. Spark plug. 2,388,472; Nov. 6.
Ditto, Hugo M., Newton, assignor, by mesne assignments, to Marine Optical Mfg. Co., Boston, Mass. Goggles. 2,388,635; Nov. 6.
Dollahite, Marlin E.: *See*—
Weeth, W. W. and E., and Dollahite.
Doughty, Samuel C., Perkasie, Pa. Pattern chain for knitting machines and the like. 2,388,311; Nov. 6.
Douslin, Donald R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Automatic pressure control for low-temperature, low-pressure factionating columns. 2,388,312; Nov. 6.
Dowey, Thomas L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y Telephone call transmitter. 2,388,313; Nov. 6.
Drucker, Samuel, assignor, to Burke & James, Inc., Chicago, Ill. Photographic devices and appurtenances for reproduction purposes. 2,388,394; Nov. 6.
Duggan, James J., Charleston, W. Va. Combined flame arrester and vent valve. 2,388,395; Nov. 6.
Dunham Company, The: *See*—
Kraus, Raymond M., assignor.
Dunton, Charles H., Berkeley, Calif. Transformer. 2,388,473; Nov. 6.
Du Pont, E. I., de Nemours & Company: *See*—
Burke, William J., assignor.
Houts, Ray C., assignor.
Hyden, W. L., and Mitchell, assignors.
Kirby, J. E., and Lontz, assignors.
Neal, A. M., and Vincent, assignors.
Durand & Huguenin A. G.: *See*—
Ratti, R., and Brandt, assignors.
Eastern Tool and Manufacturing Company: *See*—
Elwell, George H., assignor.
Edmondson, William, and W. Jones, Surrey County, assignors to The British Oxygen Company Limited, London, England. Administration of inhalant gases. 2,388,533; Nov. 6.
Eisenbud, Merril, Monsey, N. Y. Welder's helmet. 2,388,604; Nov. 6.
Eisenschiml, Bertha J., et al.: *See*—
Eisenschiml, Otto and G.
Eisenschiml, Gerald: *See*—
Eisenschiml, Otto and G.
Eisenschiml, Otto and G., assignors to O., B. J., and G. Eisenschiml, and R. E. Gingiss, doing business as a partnership under name The Scientific Oil Compounding Co., Chicago, Ill. Bodied oil and method. 2,388,257; Nov. 6.
Eisinger, Rudolph J., Thornbury Township, Delaware County, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air conditioning apparatus. 2,388,314; Nov. 6.
Elsner, Robert S., assignor to Sigmund Elsner Co., Red Bank, N. J. Apparatus for applying coating. 2,388,605; Nov. 6.
Elsner, Sigmund, Co.: *See*—
Elsner, Robert S., assignor.
Eklund, Hans E., assignor to Aktiebolaget J. C. Ljungman, Malmo, Sweden. Firearm. 2,388,396; Nov. 6.
Elgin Softener Corporation: *See*—
Kromhout, Andrew, assignor.
Elliott, Harmon P., Watertown, Mass. Printing device index. 2,388,315; Nov. 6.
Ellis, Greer, Chicago, Ill., assignor, by mesne assignments, to J. L. and R. C. Switzer. Inspection light. 2,388,474; Nov. 6.
Elwell, George H., New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Slide loop. 2,388,316; Nov. 6.
Elwell, George H., New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Slide loop. 2,388,317; Nov. 6.
Emerson, William S., Dayton, Ohio. Production of secondary amines from nitrogen compounds. 2,388,606; Nov. 6.
Emerson, William S., Dayton, Ohio. Production of tertiary amines from nitrogen compounds. 2,388,607; Nov. 6.
Emerson, William S., Dayton, Ohio. Production of secondary amines from nitrogen compounds. 2,388,608; Nov. 6.
Emmer, Charles E., assignor to General Binding Corporation, Chicago, Ill. Making binders and split rings therefor. 2,388,397; Nov. 6.
Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Recovery of pyrrole. 2,388,475; Nov. 6.
Ericsson, Arvid I., Chicago, Ill. Automatic camera-diaphragm adjuster. 2,388,609; Nov. 6.
Erie Mining Company: *See*—
De Vaney, Fred D., assignor.
Esdaile, Edward W., Sydney, New South Wales, Australia. Adjustable support for lenses and lamps used in connection with compasses and the like. 2,388,476; Nov. 6.
Eudy, Harnold G., Norfolk, Va. Air or gas pump. 2,388,398; Nov. 6.
Extruded Plastics, Inc.: *See*—
Slaughter, Charles E., assignor.
Faulkner, Michael: *See*—
Hicks, Paris P., assignor.
Federal Telephone and Radio Corporation: *See*—
Richardson, Avery G., assignor.
Federighi, George J., San Francisco, Calif. Rinsing head for automatic dishwashers. 2,388,258; Nov. 6.
Fether, Donald W., Downey, assignor of twenty-four per cent to R. D. Fether, and twenty-four per cent to D. W. Fether, Los Angeles, Calif. Machine for shaping fasteners. 2,388,355; Nov. 6.
Fether, Donna W., et al.: *See*—
Fether, Donald W., assignor.
Fether, Robert D., et al.: *See*—
Fether, Donald W., assignor.
Fields, Ellis K.: *See*—
Daskais, M. H., and Fields.
Fierbaugh, Emmett A.: *See*—
Ackerman, C. W., and Fierbaugh.
Fisher, Albert B., Jr.: *See*—
Shaffer, C. E., and Fisher.
Fisher, Charles H.: *See*—
Rehberg, C. E., and Fisher.
Fitt, T. Cleon: *See*—
Fleming, E. P., and Fitt.
Fleming, Edward P., Los Angeles, Calif., and T. C. Fitt, Salt Lake City, Utah, assignors to American Smelting and Refining Company, New York, N. Y. Recovery of sulphur from gaseous mixtures. 2,388,259; Nov. 6.
Food Machinery Corporation: *See*—
Bowie, Adrian St. J., assignor.
Forster, John G., Chicago, Ill., and L. G. Plant, Washington, D. C. Combined sand elevator and drier. 2,388,399; Nov. 6.
Fossieck, Gerald W.: *See*—
Mueller, R. H., and Fossieck.
Frank, Frederick C., Pitman, and D. E. Badertscher and H. G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Vanadium salts of acid esters as inhibitors in lubricating oils. 2,388,400; Nov. 6.
Frasier, Radford K., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Potentiometer. 2,388,534; Nov. 6.
Freundlich, Albert, assignor to Spiral Binding Company, Inc., New York, N. Y. Manufacture of helical binders. 2,388,401; Nov. 6.
Friedel, Jonas, Omaha, Nebr. Cleaning broom. 2,388,356; Nov. 6.
Friedheim, Ernst A. H., New York, N. Y. Therapeutically active aromatic diazo compounds and derivatives thereof. 2,388,260: Nov. 6.
Frosch, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polyesters. 2,388,318; Nov. 6.

Frost, Douglas V., Waukegan, Ill., assignor to Abbott Laboratories, Riboflavin solution. 2,388,261; Nov. 6.
Fry, William L., assignor to Reichel-Korfmann Co., Milwaukee, Wis. Gauge board. 2,388,402; Nov. 6.
Fryling, Charles F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Modifiers for polymerization of butadiene-1,3 hydrocarbons. 2,388,477; Nov. 6.
Fuel Refining Corporation: *See*—
Otto, Carl, assignor.
Fuller, Calvin S., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cross-linked polyesters and electrical conductors containing them. 2,388,319; Nov. 6.
Ganiayre, André, and R. Hardy, Lyon, France; vested in the Alien Property Custodian. Electromagnetic wave direction indicator. 2,388,262; Nov. 6.
Garber, Paul E., U. S. Navy. Target kite. 2,388,478; Nov. 6.
Gardiner, Linsie A., Lexington, Ky. Machine tool attachment. 2,388,320; Nov. 6.
Garnett, Edward V. and V. G., Denver, Colo. Mounting for dual wheels. 2,388,403; Nov. 6.
Garnett, Vactor G.: *See*—
Garnett, Edward V. and V. G.
Gear Grinding Machine Company, The: *See*—
Lund, Johan, assignor.
General Binding Corporation: *See*—
Emmer, Charles E., assignor.
General Electric Company: *See*—
Buechel, Joseph C., assignor.
Clark, Frank M., assignor.
Crever, Frederick E., assignor.
D'Alello, G. F., and Pyle, assignors.
Kuehni, H. P., and Branson, assignors.
Lathrop, Harold F., assignor.
Macintyre, John R., assignor.
Otto, Harold M., assignor.
Paluev, Konstantin K., assignor.
Sauer, R. O., and Reed, assignors.
Shea, Richard F., assignor.
Thielemann, Rudolf H., assignor.
General Motors Corporation: *See*—
Cook, S. V., and Waring, assignors.
General Railway Signal Company: *See*—
Hewes, Ralph W., assignor.
General Tire & Rubber Company, The: *See*—
Kraft, H. T., and Comey, assignors.
George, Everett D., and M. Lammertse, assignors to Wingfoot Corporation, Akron, Ohio. Valve stitching apparatus. 2,388,652; Nov. 6.
Gereke, Oscar, Stockett, Mont. Dehorning paste applicator. 2,388,321; Nov. 6.
Gill, Raymond W., Plessantville, N. J. Storm sash and screen. 2,388,404; Nov. 6.
Gingiss, Rosalie E., et al.: *See*—
Eisenaschimi, Otto and G.
Glaude, Leopold F., Chicago, Ill. Automatic feeding device. 2,388,405; Nov. 6.
Gleason Works: *See*—
Wildhaber, Ernest, assignor.
Gluckin, Harry, New York, N. Y. Brassière. 2,388,535; Nov. 6.
Goldman, Paul R., Andover, assignor to Plymold Corporation, Lawrence, Mass. Veneer strip, coils thereof, and preparing same. 2,388,479; Nov. 6.
Goodman Manufacturing Company: *See*—
Cartlidge, Frank, assignor.
Goodrich, B. F., Company, The: *See*—
Compton, Jack, assignor.
Fryling, Charles F., assignor.
Stewart, William D., assignor.
Zwicker, B. M. G., and Stewart, assignors.
Grabowski, Joseph: *See*—
Schroy, P. C., Grabowski, and Scott.
Granqvist, Carl-Erik, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden. Radio direction finding system. 2,388,263; Nov. 6.
Green, Edgar B., Washington, D. C. Attachment for flush tanks. 2,388,480; Nov. 6.
Green, James B., assignor to Green's Fuel, Incorporated, Sarasota, Fla. Safety liquid stop. 2,388,481; Oct. 6.
Green's Fuel, Incorporated: *See*—
Green, James B., assignor.
Gulf Oil Corporation: *See*—
Ostergaard, Povl, assignor.
Gunness, Robert C., assignor to Standard Oil Company, Chicago, Ill. Catalytic reforming. 2,388,536; Nov. 6.
Haberland, Frederick, Cleveland, Ohio, assignor to Pesco Products Co. Valve. 2,388,406; Nov. 6.
Hallstrom, Charles A., and R. E. Tibbetts, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Making springs. 2,388,537; Oct. 6.
Hamrick, Obie E., Erie, Pa. Brake release valve. 2,388,538; Nov. 6.
Hanemann, Herman G., Radburn, N. J., assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Diamond die drilling machine. 2,388,610; Nov. 6.
Hansen, Hans H., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Toothed clutch mechanism. 2,388,407; Nov. 6.
Hanwell, Cedric H.: *See*—
Steinle, L. C., and Hanwell.
Hardy, René: *See*—
Ganiayre, A., and Hardy.
Harry, Robert J., assignor to The Alliance Machine Company, Alliance, Ohio. Soaking-pit crane. 2,388,408; Nov. 6.
Hartford-Empire Company: *See*—
Lyle, Aaron K., assignor.
Hartman, William F., Storm Lake, Iowa. Trap stand. 2,388,539; Nov. 6.
Hartmann, Ernest C., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Treating aluminum alloy rivets and product. 2,388,540; Nov. 6.
Harvel Research Corporation: *See*—
Harvey, Mortimer T., assignor.
Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Reaction products of secondary aliphatic alcohol and formaldehyde and producing the same. 2,388,409; Nov. 6.
Harvuot, Frank B., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Lubricant conditioner. 2,388,636; Nov. 6.
Haskell, Nelson B., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of gasoline. 2,388,322; Nov. 6.
Hatch, Meredith R.: *See*—
Rode, F. J., and Hatch.
Haury, Vernon E., El Cerrito, Calif., assignor to Shell Development Company, San Francisco, Calif. Ketone resins. 2,388,410; Nov. 6.
Hayes, Stanley A.: *See*—
Stewart, James W. R., assignor.
Haynes, Herbert H., Clarksburg, W. Va. Surgical screw. 2,388,482; Nov. 6.
Hays, Russell R., Lawrence, Kans. Helicopter. 2,388,653; Nov. 6.
Heat Transfer Products, Inc.: *See*—
Jacocks, George T., assignor.
Henderson, Edward, New York, N. Y. Hypodermic syringe unit. 2,388,323; Nov. 6.
Henderson, James, Kinghorn, Fife, Scotland. Manufacturing laminated articles from veneer or like sheet material. 2,388,541; Nov. 6.
Hess, Frederic O., Germantown, Pa., assignor to Selas Corporation of America. Forming vitreous coatings. 2,388,611; Nov. 6.
Hess, George M., Altoona, Pa. Mechanical toy. 2,388,483; Nov. 6.
Hewes, Ralph W., assignor to General Railway Signal Company, Rochester, N. Y. Oscillating code transmitter. 2,388,484; Nov. 6.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,388,357; Nov. 6.
Heyden Chemical Corporation: *See*—
Bowman, P. I., and Burrell, assignors.
Hicks, Paris P., Jane Lew, assignor of one-half to M. Faulkner, Weston, W. Va. Tractor rake. 2,388,411; Nov. 6.
Higonnet, René A., and L. N. Chereau, Lyon, France; vested in the Alien Property Custodian. Apparatus for copying documents and the like. 2,388,264; Nov. 6.
Himes, William H.: *See*—
Joyce, W. E., Himes, and Wilson.
Hixson, Arthur W., Leonia, N. J., and R. Miller, New York, N. Y., assignors to The Chemical Foundation, Incorporated. Fractionation of tall oil. 2,388,412; Nov. 6.
Hobbs, Walter V., Columbus, Ohio, assignor to Ranco Incorporated. Pressure measuring device. 2,388,542; Nov. 6.
Hoggatt, Gilbert A., Snyder, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y. Preparing plaster casts. 2,388,543; Nov. 6.
Holcomb, Carl W., Camp Davis, N. C. Motor-operated shaver. 2,388,324; Nov. 6.
Holmes, Verne L., Los Angeles, Calif. Overhead door. 2,388,654; Nov. 6.
Holst, Johan W.: *See*—
Asplun, A. J. A., and Holst.
Holst, Paul F. G., and L. R. Kirkwood, Oaklyn, N. J., assignor to Radio Corporation of America. Frequency modulation receiver intensity indicator. 2,388,544; Nov. 6.
Horak, Gustave J., Penn Run, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for spinning tubular articles. 2,388,545; Nov. 6.
Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinning process for artificial filaments. 2,388,325; Nov. 6.
Hubbard, Francis A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse transmitter. 2,388,358; Nov. 6.
Huberman, Sidney H.: *See*—
La Chapelle, Fred N., assignor.
Hull, Washington, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of p-cymene from a monocyclic terpene. 2,388,359; Nov. 6.
Hyatt, Elmer, Cleveland, Ohio. Truss. 2,388,360; Nov. 6.





Hyden, William L., and J. A. Mitchell, Kenmore, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Moistureproof sheet. 2,388,326; Nov. 6.
Imperial Chemical Industries Limited: *See*—
Caldwell, Walter A., assignor.
Williamson, A. T., and Bradley, assignors.
Innes, Walter P., Jr.: *See*—
Bidwell, Earl E., assignor.
Interchemical Corporation: *See*—
Ryan, L. W., and Sanders, assignors.
International Business Machines Corporation: *See*—
Tholstrup, Henry L., assignor.
Watson, Thomas J., assignor.
Wheeler, John N., assignor.
Iron Fireman Manufacturing Company: *See*—
Wright, Richard C., assignor.
Ironside, George, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine for automatic firearms. 2,388,413; Nov. 6.
Jackson, Arthur C., Swarthmore, Pa., assignor to L. V. Whistler, Kenmore, N. Y. Punch and die setting. 2,388,546; Nov. 6.
Jacobsson, Wilgot J., Plainfield, and L. W. Young, Scotch Plains, N. J., assignors to Union Carbide and Carbon Corporation. Torch. 2,388,327; Nov. 6.
Jacocks, George T., New Rochelle, assignor to Heat Transfer Products, Inc., New York, N. Y. Still. 2,388,328; Nov. 6.
Jandasek, Joseph, assignor to Bendix Aviation Corporation, Detroit, Mich. Fluid torque converter. 2,388,329; Nov. 6.
Jehu, Leroy: *See*—
Little, R., and Jehu.
Jensen, Martin, Port Washington, assignor to Langley Aviation Corporation, New York, N. Y. Making airplane structures. 2,388,485; Nov. 6.
Jerger, Joseph: *See*—
Page, G. A., Jr., Jerger, Rugge, and Watson.
Jernigan, Lee, Portland, Oreg. Ejector and guard for chuck keys. 2,388,414; Nov. 6.
John, Edward T., Minneapolis, Minn. Ladder hook. 2,388,415; Nov. 6.
John, Edward T., assignor to The J. R. Clark Company, Minneapolis, Minn. Folding clothes rack. 2,388,637; Nov. 6.
Johns-Manville Corporation: *See*—
Kieselbach, H. A., and Williams, assignors.
Johnson, Francis, Detroit, Mich. Shaper tool post holddown. 2,388,547; Nov. 6.
Johnson, Mont C., Winterset, Iowa. Casing centering device. 2,388,416; Nov. 6.
Johnson, Robert A., Longmeadow, Mass. Machine tool. 2,388,265; Nov. 6.
Jones, Robert L., Waukegan, Ill., assignor to Abbott Laboratories. Obtaining gland extracts. 2,388,417; Nov. 6.
Jones, Wilfred: *See*—
Edmondson, W., and Jones.
Joyce, William E., W. H. Himes, and D. I. Wilson, assignors to The City Engineering Company, Dayton, Ohio. Screw machine. 2,388,612; Nov. 6.
Jungmann, Martin, New York, N. Y. Wrist protector. 2,388,330; Nov. 6.
Junkin, Malcolm P., Drexel Hill, Pa. Apparatus for producing stayed boxes. 2,388,266; Nov. 6.
Junkin, Malcolm P., Drexel Hill, Pa. Box. 2,388,267; Nov. 6.
Jura, Albert E., Jr., Berkeley, Calif., assignor to Shand and Jurs Company. Liquid sampling device. 2,388,548; Nov. 6.
Katcher, Morris, New York, N. Y. Hydro-kinetic torque converter. 2,388,418; Nov. 6.
Keller, Harry, assignor to Monsanto Chemical Company, St. Louis, Mo. Manufacturing solid products. 2,388,613; Nov. 6.
Kiar, Mogens, Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Polymerization of vinyl esters in emulsion. 2,388,602; Nov. 6.
Kieselbach, Henry A., Montclair, and E. R. Williams, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y. High temperature insulating shape and manufacture. 2,388,549; Nov. 6.
Kincannon, Leo T., assignor to Metal Products Corporation, Milwaukee, Wis. Fuel supply for two-cycle, crankcase compression engines. 2,388,331; Nov. 6.
King, John A.: *See*—
Smith, L. J., and King.
Kingman, Russell B., Orange, N. J. Mute for stringed musical instruments. 2,388,550; Nov. 6.
Kingman, Russell B., Orange, N. J. Stringed instrument mute. 2,388,551; Nov. 6.
Kirby, James E., and J. F. Lontz, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfectant compositions. 2,388,614; Nov. 6.
Kirkwood, Loren R.: *See*—
Holst, P. F. G., and Kirkwood.
Koehring Company: *See*—
Beckwith, Raymond A., assignor.
Kohl-Stilwell Engineers: *See*—
Reinhard, Gustav A., assignor.
Komenda, Erwin, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian. Vehicle body construction. 2,388,419; Nov. 6.
Koppers Company, Inc.: *See*—
Shaffer, C. E., and Fisher, assignors.
Korte, Clem H., La Canada, Calif. Collapsible chair. 2,388,552; Nov. 6.
Kott, John, Portland, Oreg. Bracket for roof boards. 2,388,420; Nov. 6.
Kraft, Herman T., and F. H. Comey, assignors to The General Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 2,388,421; Nov. 6.
Krag, Franz K., Chicago, Ill. Can opener. 2,388,615; Nov. 6.
Krastel, Oscar, Columbus, Ohio. Piston construction. 2,388,422; Nov. 6.
Kraus, Raymond M., Cleveland, assignor to The Dunham Company, Berea, Ohio. Wheel hoe. 2,388,553; Nov. 6.
Kreisler, Jacques, Manufacturing Corporation: *See*—
Kreisler, L., and Siska, assignors.
Kreisler, Leslie, New York, N. Y., and J. G. Siska, Cresskill, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Expansion band. 2,388,554; Nov. 6.
Kromhout, Andrew, assignor to Elgin Softener Corporation, Elgin, Ill. Multiport rotary valve. 2,388,268; Nov. 6.
Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing machine. 2,388,332; Nov. 6.
Kuehni, Hans P., and N. G. Branson, Schenectady, N. Y., assignors to General Electric Company. Automatic pattern controlled machine tool. 2,388,555; Nov. 6.
La Chapelle, Fred N., Beverly, assignor to S. H. Huberman, Boston, Mass. Shoe. 2,388,333; Nov. 6.
La Lande, William A., Jr., Upper Darby, assignor to Attapulgus Clay Company, Philadelphia, Pa. Use of dehumidification agents. 2,388,616; Nov. 6.
Lambach, Fritz, Tenafly, N. J. Warping or beaming machine. 2,388,269; Nov. 6.
Lammertse, Meindert: *See*—
George, E. D., and Lammertse.
Langdon, Samuel W., assignor to Marful Specialties Incorporated, Rochester, N. Y. Light sensitive material feeding mechanism. 2,388,423; Nov. 6.
Langley Aviation Corporation: *See*—
Jensen, Martin, assignor.
Larson, Larry A., et al.: *See*—
Wilson, Edgar I., assignor.
Lathrop, Harold F., Grabill, Ind., assignor to General Electric Company. Refrigerating system. 2,388,556; Nov. 6.
Latta, Lynn H.: *See*—
Nuffer, J. H., and Latta.
Lawrence, George S., Chester, Pa. Toy tank. 2,388,638; Nov. 6.
Lederman, Mack E., Seattle, Wash. Surface waxing and polishing machine. 2,388,486; Nov. 6.
Leinweber, William H., Chicago, Ill. Combination valve nozzle. 2,388,334; Nov. 6.
Leishman, Leroy J.: *See*—
Soffetti, Giuseppe, assignor.
Lenk, Kurt H., assignor to Parker Manufacturing Company, Worcester, Mass. Saw frame. 2,388,655; Nov. 6.
Lichty, Joy G., Stow, and N. V. Seeger, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Paint compositions. 2,388,656; Nov. 6.
Lindsay Wire Weaving Company: *See*—
Hanemann, Herman G., assignor.
Line Material Company: *See*—
Link, Edwin A., assignor.
Runke, Glenn R., assignor.
Link, Edwin A., assignor to Line Material Company, South Milwaukee, Wis. Switch construction. 2,388,617; Nov. 6.
Linzell, Harry K., Long Lake, assignor to United States Gypsum Company, Chicago, Ill. Making compressed fiber products. 2,388,487; Nov. 6.
Little, Royal, Providence, and L. Jehu, Cranston, assignors to Textron, Incorporated, Providence, R. I. Winding textile packages. 2,388,557; Nov. 6.
Littlefuse, Inc.: *See*—
Sundt, E. V., and Purcell, assignors.
Loewy Engineering Company Limited, The: *See*—
Loewy, Ludwig, assignor.
Loewy, Ludwig, Bournemouth, assignor to The Loewy Engineering Company Limited, London, England. Metal extrusion press and operating same. 2,388,558; Nov. 6.
Long, John R., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Preparation of acid chlorides. 2,388,657; Nov. 6.
Lontz, John F.: *See*—
Kirby, J. E., and Lontz.
Lord, Francis LeB., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Lock nut unit. 2,388,270; Nov. 6.
Lord, Francis LeB., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Flanged lock nut unit. 2,388,271; Nov. 6.

Lord, Francis LeB., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Internal lock nut. 2,388,272; Nov. 6.

Lord, Francis LeB., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Lock stud. 2,388,273; Nov. 6.

Ludwig, Frederick W., as trustee: *See*—
Stephens, Thomas J., assignor.

Lund, Johan, Detroit, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich. One-way rotary clutch. 2,388,424; Nov. 6

Lund, Johan, Detroit, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Transmission unit testing machine. 2,388,425; Nov. 6.

Lyle, Aaron K., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for making glass. 2,388,274; Nov. 6.

Lynex, Alfred J., Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Scribing tool. 2,388,361; Nov. 6.

Macdonald, Kenneth W., Winchester, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Sole attaching press. 2,388,426; Nov. 6.

Macintyre, John R., South Peabody, Mass., assignor to General Electric Company. Totalizing liquid level indicator. 2,388,559; Nov. 6.

Mackenzie, Dorothy E., and G. H. Wolfe, Reno, Nev. Tuyère construction. 2,388,275; Nov. 6.

MacNeill, Arden B., assignor to said A. B. MacNeill and H. H. MacNeill, Waltham, Mass., as joint tenants. Drilling machine. 2,388,362; Nov. 6.

MacNeill, Harris H.: *See*—
MacNeill, Arden B., assignor.

Madger, Arthur W., Malden, England. Retaining means for badges, brooches, ornaments, bars for decorative ribbons, or the like. 2,388,427; Nov. 6.

Maguire Industries, Incorporated: *See*—
Ruger, William B., assignor.

Malthaner, William A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,388,488; Nov. 6.

Manning, Maxwell & Moore, Inc.: *See*—
Brongersma, Cornelius, assignor.

Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,388,639; Nov. 6.

Marful Specialties Incorporated: *See*—
Langdon, Samuel W., assignor.

Marine Optical Mfg. Co.: *See*—
Ditto, Hugo M., assignor.

Markey, Roscoe L., East Orange, assignor to Pollak Manufacturing Company, Arlington, N. J. Fire control. 2,388,489; Nov. 6.

Mavity, Julian M., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Catalysis of organic reactions. 2,388,428; Nov. 6.

McCoy, Howard M., Fairfield, Ohio. Mechanism and control for controllable aircraft propellers. 2,388,276; Nov. 6.

McCrery, Harold E., Oakwood, Ohio, assignor to Plyfiber Container Corporation, Garwood, N. J. Fibrous container. 2,388,277; Nov. 6.

McCullough, Paul J., assignor to J. Pavelka, St. Louis, Mo. Coffee maker. 2,388,335; Nov. 6.

McGraw Electric Company: *See*—
Osterheld, Clark M., assignor.

McJimsey, John E., Larkspur, Calif. Garage door holder. 2,388,490; Nov. 6.

McKee, Harry A., Washington, Pa. Friction drive. 2,388,491; Nov. 6.

McKinnis, Art C., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Separation of hydrocarbons. 2,388,429; Nov. 6.

Mead, Theodore E., Wilmette, Ill. Control valve. 2,388,560; Nov. 6.

Merwin, Walter J.: *See*—
Teter, J. W., and Merwin.

Metal Products Corporation: *See*—
Kincannon, Leo T., assignor.

Michael, Henry J.: *See*—
Staples, E. M., Taylor, and Michael.

Mikhalapov, George S., Media, Pa., assignor, by mesne assignments, to The Taylor-Winfield Corporation, Warren, Ohio. Method and apparatus for welding. 2,388,430; Nov. 6.

Miller, Godfrey A.: *See*—
Bailey, F. A., and Miller.

Miller, Leo G., Wichita, Kans. Auto trailer brake. 2,388,336; Nov. 6.

Miller, Ralph: *See*—
Hixson, A. W., and Miller.

Minneapolis-Honeywell Regulator Company: *See*—
Taylor, Daniel G., assignor.

Mitchell, James A.: *See*—
Hyden, W. L., and Mitchell.

Mise, William E.: *See*—
Stewart, R. R., and De Long, assignors.

Moncrieff, Robert W., and E. W. Wheatley, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of highly polymeric organic compounds. 2,388,278; Nov. 6.

Monsanto Chemical Company: *See*—
Cooper, Robert H., assignor.
Keller, Harry, assignor.

Montalbano, Astelle, North Sacramento, Calif. Attachment for ironing boards. 2,388,492; Nov. 6.

Moody, Clay P., North Bend, Oreg. Preparing cadavers for burial. 2,388,337; Nov. 6.

Moore, Edward J., executor, et al.: *See*—
Moore, Thomas F.

Moore, Thomas F., deceased, Morris Plains; E. J. Moore and M. M. Dacey, executors. Well point. 2,388,640; Nov. 6.

Moore, Vincent T., Glen Rock, N. J., assignor to Wright Aeronautical Corporation. Piston. 2,388,363; Nov. 6.

Morris, John J., Tuckahoe, and W. C. Stohldreier, Bronxville, N. Y. Manhole cover lock. 2,388,561; Nov. 6.

Morris Paper Mills: *See*—
Arneson, Edwin L., assignor.

Mueller, Reinhold H., St. Louis, and G. W. Fossleck, St. Louis County, Mo. Tobacco pipe. 2,388,338; Nov. 6.

Myers, Joseph W., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Toaster. 2,388,641; Nov. 6.

National Automotive Fibres, Inc.: *See*—
Davies, Clarence J., assignor.

Neal, Arthur M., and J. R. Vincent, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preserving rubber. 2,388,562; Nov. 6.

Neiman, Harry, Chicago, Ill. Picture mount. 2,388,431; Nov. 6.

Nelsen, George M., Seattle, Wash. Ophthalmic device. 2,388,493; Nov. 6.

Nelson, Ralph M., River Forest, assignor to Sloan Valve Company, Chicago, Ill. Vacuum breaker. 2,388,432; Nov. 6.

Nock, Joseph A., Jr., Tarentum, and T. W. Bossert, Carnegie, assignors to Aluminum Company of America, Pittsburgh, Pa. Thermal treatment for aluminum base alloys. 2,388,563; Nov. 6.

Nuffer, Joseph H., Toledo, Ohio, and L. H. Latta, Deerfield, Ill., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Suction cleaner. 2,388,279; Nov. 6.

Nuffer, Joseph H., Toledo, Ohio, and L. H. Latta, Deerfield, Ill., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Suction cleaner. 2,388,280; Nov. 6.

Omansky, Morris, Brookline, Mass., assignor, by mesne assignments, to Victor Chemical Works, Chicago, Ill. Rubber lubricating and plasticizing composition. 2,388,618; Nov. 6.

Onofrio, Carmeno A., assignor of one-half to R. Orino, Gorham, N. H., and one-eighth to J. Orino, Rumford, Maine. Material loading device. 2,388,436; Oct. 6.

Orelup, John W., Short Hills, N. J. Fatty acid esters having amphoteric properties. 2,388,281; Nov. 6.

Orino, John, et al.: *See*—
Onofrio, Carmeno A., assignor.

Orino, Romeo, et al.: *See*—
Onofrio, Carmeno A., assignor.

Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Method of and apparatus for coating strips. 2,388,494; Nov. 6.

Ostergaard, Povl, Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Apparatus for continuous conversion of hydrocarbons. 2,388,642; Nov. 6.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder switch unit. 2,388,564; Nov. 6.

Osterholt, August M., Hoboken, N. J. Whistle. 2,388,495; Nov. 6.

Ottmer, Frederick W., Union City, N. J. Riveter's hand pad. 2,388,437; Nov. 6.

Otto, Carl, Manhasset, assignor to Fuel Refining Corporation, New York, N. Y. Underfired coke oven fuel supply means. 2,388,438; Nov. 6.

Otto, Harold M., Schenectady, N. Y., assignor to General Electric Company. Centrifugal type speed governing mechanism. 2,388,282; Nov. 6.

Page, George A., Jr., Creve Coeur, J. Jerger and R. Rugge, Ferguson, and P. R. Waton, Webster Groves, Mo., assignors to Curtiss-Wright Corporation. Combustion heater. 2,388,364; Nov. 6.

Palley, I. Nevin, Oronoque, Conn., assignor to Curtiss-Wright Corporation. Retractable landing gear fairing. 2,388,365; Nov. 6.

Palmer, Robert F., Wheeling, W. Va. Apparatus for folding, banding, and mounting paper tickets. 2,388,433; Nov. 6.

Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. 2,388,565; Nov. 6.

Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. 2,388,566; Nov. 6.

Parker Manufacturing Company: *See*—
Lenk, Kurt H., assignor.

Patterson, George, Jr., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Portable radio receiver. 2,388,567; Nov. 6.



Pavelka, Joseph: *See*—
McCullough, Paul J., assignor.

Paxton, Clarence, and T. H. Vail, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio. Coating paper. 2,388,339; Nov. 6.

Pearce, George W., and A. W. Avens, Geneva, N. Y. Preparing copper arsenicals. 2,388,496; Nov. 6.

Pease, Charles F., Long Beach, Calif. Vending machine. 2,388,497; Nov. 6.

Penning, Nicholas J., Milwaukee, Wis. Sealing composition. 2,388,568; Nov. 6.

Pesco Products Co.: *See*—
Haberland, Frederick, assignor.

Petersen, Robert P., Philadelphia, Pa. Mold for concrete bombs. 2,388,569; Nov. 6.

Peterson, John A., and J. E. Bruce, Chicago, Ill. Towel rack. 2,388,366; Nov. 6.

Philco Corporation: *See*—
Sunstein, David E., assignor.

Philco Radio and Television Corporation: *See*—
Amore, Leo J., assignor.
Patterson, George, Jr., assignor.
Whittell, P., and Carraine, assignors.

Philips, George B., Glenshaw, Pa., and J. R. Tuuri, Fairport Harbor, Ohio, assignors to Blaw-Knox Company, Blawnox, Pa. Shaft bearing. 2,388,570; Nov. 6.

Phillips Petroleum Company: *See*—
Doustin, Donald R., assignor.

Phillis, William A., assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Abrasive cut-off machine. 2,388,434; Nov. 6.

Pittsburgh Coke & Iron Company: *See*—
Riethof, George, assignor.

Plant, Leland G.: *See*—
Forster, J. G., and Plant.

Plessey Company, Limited, The: *See*—
Da Costa, Harry, assignor.

Plyfiber Container Corporation: *See*—
McCrery, Harold E., assignor.

Plymold Corporation: *See*—
Goldman, Paul R., assignor.

Pollak Manufacturing Company: *See*—
Markey, Roscoe L., assignor.

Popper, Charles, New York, N. Y., assignor to Automatic Turbine Drive Company, Inc. Hydraulic coupling. 2,388,571; Nov. 6.

Porter, John A., U. S. Army, San Antonio, Tex. Conveyer. 2,388,283; Nov. 6.

Pregel, Boris: *See*—
Ratner, Essel, assignor.

Procter & Gamble Company, The: *See*—
Byerly, David R., assignor.

Proctor & Schwartz, Incorporated: *See*—
Bokum, William F., assignor.
Myers, Joseph W., assignor.

Pro-Phy-Lac-Tic Brush Company: *See*—
Dahle, Joseph, assignor.

Puerner, J. Harold: *See*—
Puerner, Joseph H.

Puerner, Joseph H., also known as J. Harold Puerner, Jefferson, Wis. Display easel. 2,388,435; Nov. 6.

Pumphrey, Walter H., assignor of one-half to E. J. Cantin, New York, N. Y. Bolt. 2,388,658; Nov. 6.

Purcell, Joseph: *See*—
Sundt, E. V., and Purcell.

Pyle, James J.: *See*—
D'Alelio, G. F., and Pyle.

Radio Corporation of America: *See*—
Deal, Harmon B., assignor.
Holst, Paul F. G., and Kirkwood, assignors.
Seeley, S. W., and Rankin, assignors.
Sinnett, C. M., and Sneprangers, assignors.
Zappacosta, Amedeo D., assignor.

Ranco Incorporated: *See*—
Hobbs, Walter V., assignor.

Rankin, John A.: *See*—
Seeley, S. W., and Rankin.

Ratner, Essel, assignor of one-half to B. Pregel, New York, N. Y. Treating raw animal fats. 2,388,284; Nov. 6.

Ratti, Roger, Neu-Allschwil, near Basel, and P. Brandt, assignors to Durand & Huguenin A. G., Basel, Switzerland. Textile printing with leuco ester salts of vat dyes. 2,388,285; Nov. 6.

Raymond, Leslie R., Santa Ana, assignor to A. S. Cowie & Co., Los Angeles, Calif. Cutting oil. 2,388,439; Nov. 6.

Reed, Charles E.: *See*—
Sauer, R. O., and Reed.

Regenhardt, Walter F., Wooster, Ohio. Interlocking clip. 2,388,572; Nov. 6.

Rehberg, Chessie E., Wyndmoor, and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Beta-chloroallyl acrylates. 2,388,440; Nov. 6.

Reichel-Kortmann Co.: *See*—
Fry, William L., assignor.

Reinhard, Gustav A., Shaker Heights, assignor to Kohl-Stilwell Engineers, Cleveland, Ohio. Direct-current motor. 2,388,498; Nov. 6.

Renner, Henry M., Cedartown, Ga. Rocket shell. 2,388,286; Nov. 6.

Research Corporation: *See*—
Daskais, M. H., and Fields, assignors.

Resek, Jules V.: *See*—
Cleaver, J. C., and Resek.

Ressinger, Paul M., Chicago, Ill. Vehicle for children. 2,388,441; Nov. 6.

Reyburn, Vernon E., Detroit, Mich. Pie holder. 2,388,442; Nov. 6.

Rhodes, John C., Jenkintown, assignor to The United Dairy Equipment Company, West Chester, Pa. Apparatus for homogenizing mixed liquid ingredients. 2,388,573; Nov. 6.

Richardson, Avery G., Boonton, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Portable antenna. 2,388,287; Nov. 6.

Riethof, George, Mount Lebanon, assignor to Pittsburgh Coke & Iron Company, Pittsburgh, Pa. Recovering pure beta-picoline. 2,388,499; Nov. 6.

Ring, Ernest A., West Barrington, assignor of one-half to F. M. Blakeney, Cranston, R. I. Utility goggle. 2,388,574; Nov. 6.

Ringler, William A., Wayne, Pa., and M. I. Williamson, assignors to Wedglok Corporation, New York, N. Y. Joinders in sheet materials. 2,388,288; Nov. 6.

Ripley, Gladys A.: *See*—
Ripley, Walter L., assignor.

Ripley, Walter L., assignor, to G. A. Ripley, Sharpsburg, Md. Toy boat construction. 2,388,340; Nov. 6.

Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,388,367; Nov. 6.

Rockrite Processes, Inc.: *See*—
Coe, George B., assignor.

Rode, Fredrich J., and M. R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for swaging tubular blanks. 2,388,643; Nov. 6.

Roessler, George, Teaneck, N. J. Hydraulic pump, fluid motor or compressor. 2,388,644; Nov. 6.

Rolland, Guy F., McKeansburg, Pa., assignor to Atlas Powder Company, Wilmington, Del. Ignition composition. 2,388,368; Nov. 6.

Ronci, Victor L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,388,289; Nov. 6.

Root, Nathan, Grand Rapids, Mich. Fur cleaning machine. 2,388,619; Nov. 6.

Roser, George, Washington, D. C. Die stock. 2,388,290; Nov. 6.

Rowe, Jean E.: *See*—
Rowe, Julian F. and J. E.

Rowe, Julian F. and J. E., Stewart Manor, Long Island, N. Y. Rate of rise circuit contact operating device. 2,388,645; Nov. 6.

Rudkin, Henry A.: *See*—
Stephens, Thomas J.

Rudolph, Jack H., De Kalb, Ill. Skirt construction. 2,388,341; Nov. 6.

Ruger, William B., Greensboro, N. C. Machine gun. 2,388,291; Nov. 6.

Ruger, William B., Westport, assignor to Maguire Industries, Incorporated, Bridgeport, Conn. Firing mechanism. 2,388,443; Nov. 6.

Rugge, Raymond: *See*—
Page, G. A., Jr., Jerger, Rugge, and Watson.

Runke, Glenn R., Racine, assignor to Line Material Company, Milwaukee, Wis. Switch construction. 2,388,620; Nov. 6.

Ryan, Arthur M., San Mateo, Calif. Display sign. 2,388,646; Nov. 6.

Ryan, Lonnie W., Westfield, N. J., and H. L. Sanders, assignors to Interchemical Corporation, New York, N. Y. Manufacture of pigments. 2,388,659; Nov. 6.

Ryerson & Haynes, Inc.: *See*—
Snell, Samuel A., assignor.

Sanders, Herbert L.: *See*—
Ryan, L. W., and Sanders.

Sapyak, Frank J., Sanford, Mich. Fingernail file. 2,388,292; Nov. 6.

Sauer, Robert O., and C. E. Reed, Schenectady, N. Y., assignors to General Electric Company. Resolution of mixtures of chlorosilanes. 2,388,575; Nov. 6.

Sawyer, Howard G., Bayside, N. Y. Fire-tube boiler. 2,388,647; Nov. 6.

Schaal, Earl V., East Aurora, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,388,500; Nov. 6.

Schaefer, Carl A., Whitefish Bay, Wis., assignor to Square D Company, Detroit, Mich. Electric switch. 2,388,342; Nov. 6.

Schaefer, Frederic C., Greenwich, Conn., assignor to Wingfoot Corporation, Akron, Ohio. Propiolyl halides and making them. 2,388,660; Nov. 6.

Schmidt, Henry, Forsyth, Mont. Smut remover and grain cleaner. 2,388,343; Nov. 6.

Schrader, Walter, Garden City, assignor to American Soil Products Co., Inc., New York, N. Y. Garden seeder. 2,388,501; Nov. 6.

Schrey, Paul C., J. Grabowski, and M. J. Scott, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Producing molding compositions and the products thereof. 2,388,293; Nov. 6.

Scientific Oil Compounding Co., The: *See*—
Eisenschiml, Otto and G.

Scott, Milton J.: *See*—
Schroy, P. C., Grabowski, and Scott.

Scott & Williams, Incorporated: *See*—
Sheppard, Harry N., assignor.

Scribner, William L.: *See*—
Buckwalter, T. V., and Scribner.

Sears, Roebuck and Co.: *See*—
Dady, Arthur O., assignor.

Sebald, Joseph F., Bloomfield, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Deaerating feed-water heater. 2,388,344; Nov. 6.

Seeburg, J. P., Corporation: *See*—
Boyajian, James A., assignor.

Seeger, Nelson V.: *See*—
Lichty, J. G., and Seeger.

Seeley, Stuart W., Roslyn Heights, and J. A. Rankin, Port Washington, N. Y., assignors to Radio Corporation of America. Radio signaling system. 2,388,576; Nov. 6.

Selas Corporation of America: *See*—
Hess, Frederic O., assignor.

Shaffer, Chester E., Jersey City, N. J., and A. B. Fisher, Jr., Wilkinsburg, Pa., assignors, by mesne assignments, to Koppers Company, Inc. Stoking apparatus. 2,388,294; Nov. 6.

Shand and Jurs Company: *See*—
Jurs, Albert E., Jr., assignor.

Shawinigan Chemicals Limited: *See*—
Collins, Henry M., assignor.
Klar, Mogens, assignor.

Shea, Richard F., Fairfield, Conn., assignor to General Electric Company. Mutual coupling. 2,388,295; Nov. 6.

Shell Development Company: *See*—
Haury, Vernon E., assignor.
Voge, Hervey H., assignor.

Shendrick, Constantine, Detroit, Mich. Fluid control valve. 2,388,369; Nov. 6.

Shenker, George, Brooklyn, N. Y. Baseball game. 2,388,577; Nov. 6.

Sheppard, Harry N., Maplewood, N. J., assignor to Scott & Williams, Incorporated, New York, N. Y. Method and machine for marking circular knit fabric for boarding. 2,388,648; Nov. 6.

Sheppard, Harry N., Maplewood, N. J., assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular knit hosiery and making same. 2,388,649; Nov. 6.

Sherman, Rallston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Wall flame type burner. 2,388,502; Nov. 6.

Sherwood, Lester L., Los Angeles, Calif. Billfold. 2,388,444; Nov. 6.

Silent Glow Oil Burner Corporation, The: *See*—
Sherman, Rallston M., assignor.

Simonton, Theodore E.: *See*—
Altobelli, Fulgenzio, assignor.

Simpson, Clarence E., Springfield, Mass. Tripod. 2,388,296; Nov. 6.

Sinclair Refining Company: *See*—
Teter, John W., assignor.
Teter, J. W., and Merwin, assignors.

Sinnett, Chester M., Westmont, and R. Snepvangers, Haddon Heights, N. J., assignors to Radio Corporation of America. Record reproducing system. 2,388,578; Nov. 6.

Sirp, Emil, Downers Grove, and J. S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article working apparatus. 2,388,621; Nov. 6.

Siska, John G.: *See*—
Kreisler, L., and Siska.

Skaggs, Glen A., Portsmouth, Va. Steam generator. 2,388,345; Nov. 6.

Slaughter, Charles E., New Canaan, assignor to Extruded Plastics, Inc., Norwalk, Conn. Composite articles including extruded sections. 2,388,297; Nov. 6.

Sloan Valve Company: *See*—
Nelson, Ralph M., assignor.

Smith, Lee L., Minneapolis, Minn., and J. A. King, Albany, N. Y., assignors to Regents of the University of Minnesota, Minneapolis, Minn. Making heterocyclic compounds. 2,388,579; Nov. 6.

Snell, Francis A., Chenango Forks, assignor to Botnick Motor Corporation, Binghamton, N. Y. Wrench. 2,388,580; Nov. 6.

Snell, Samuel A., assignor to Ryerson & Haynes, Inc., Jackson, Mich. Primer pocket. 2,388,370; Nov. 6.

Snepvangers, Rene: *See*—
Sinnett, C. M., and Snepvangers.

Socony-Vacuum Oil Company, Incorporated: *See*—
Frank, F. C., Badertscher, and Berger, assignors

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Rubber compositions containing hydrocarbon resins. 2,388,346; Nov. 6.

Soffietti, Giuseppe, Torino, Italy, assignor to L. J. Leishman, Los Angeles, Calif. Automatic tuning-in of wireless receiving sets to desired broadcasting stations. 2,388,581; Nov. 6.

Sorensen, George E., assignor to Woodward Governor Company, Rockford, Ill. Method of and apparatus for measuring center spacing. 2,388,582; Nov. 6.

Spiral Binding Company, Inc.: *See*—
Freundlich, Albert, assignor.

Square D Company: *See*—
Schaefer, Carl A., assignor.

Staff, Olof, Princess Bay, N. Y. Pipe clamping device. 2,388,371; Nov. 6.

Standard Oil Company: *See*—
Gunness, Robert C., assignor.

Staples, Elliot M., Hohokus, N. J., E. R. Taylor, Pelham Manor and H. J. Michael, Astoria, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,388,347; Nov. 6.

Steinle, Leo C., Wimbledon, London, S. W. 19, and C. H. Hanwell, Cogenhoe, England. Shaft bearing. 2,388,503; Nov. 6.

Stephens, Thomas J., et al.: *See*—
Ludwig, Frederick W., as trustee.

Stephens, Thomas J., New York, N. Y., assignor to F. W. Ludwig, as trustee for the benefit of T. J. Stephens, H. A. Rudkin, and F. W. Ludwig. Roasting vegetable material. 2,388,298; Nov. 6.

Stewart, James W. R., assignor to Stanley A. Hayes, Berkeley, Calif. Spraying proportioner. 2,388,445; Nov. 6.

Stewart, Robert R., Findlay, and T. R. De Long, Van Buren, Ohio, assignors to W. E. Mize, Detroit, Mich. Lathe dog. 2,388,622; Nov. 6.

Stewart, William D.: *See*—
Zwicker, B. M. G., and Stewart.

Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Catalysts for the addition polymerization of unsaturated organic compounds. 2,388,372; Nov. 6.

Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Catalysts for the addition polymerization of unsaturated organic compounds. 2,388,373; Nov. 6.

Stimson, Edward E., Spondon, near Derby, assignor to British Celanese Limited, London, England. Gas manufacture. 2,388,348; Nov. 6.

Stohldreier, William C.: *See*—
Morris, J. J., and Stohldreier.

Storm, Carl T. and L. H., Detroit, Mich. Motor vehicle identification tag holder. 2,388,349; Nov. 6.

Storm, Loulee H.: *See*—
Storm, Carl T. and L. H.

Straight, Halver R., Adel, Iowa. Manufacture of ceramic wares. 2,388,446; Nov. 6.

Straight, Halver R., Adel, Iowa. Making graphite pencil leads and similar articles. 2,388,447; Nov. 6.

Stull, John S.: *See*—
Sirp, E., and Stull.

Sturbelle, Lucien C., Brussels, Belgium. Leaching method and apparatus. 2,388,504; Nov. 6.

Sturr, Margaret T., Haddon Heights, N. J. Jar lifter. 2,388,623; Nov. 6.

Sundt, Edward V., Arcadia, and J. Purcell, El Monte, Calif., assignors to Littlefuse, Inc., Chicago, Ill. Indicator. 2,388,448; Nov. 6.

Sundt, Edward V., Arcadia, and J. Purcell, El Monte, Calif., assignors to Littlefuse, Inc., Chicago, Ill. Indicator. 2,388,449; Nov. 6.

Sunstein, David E., Elkins Park, assignor to Philco Corporation, Philadelphia, Pa. Tone compensated volume control. 2,388,505; Nov. 6.

Switzer, Joseph L., et al.: *See*—
Ellis, Greer, assignor.

Switzer, Robert C., et al.: *See*—
Ellis, Greer, assignor.

Tashjian, Armen H., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Cantilever retaining wall structure and making the same. 2,388,624; Nov. 6.

Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,388,350; Nov. 6.

Taylor, Edmund R.: *See*—
Staples, E. M., Taylor, and Michael.

Taylor Instrument Companies: *See*—
Ziegler, John G., assignor.

Taylor-Winfield Corporation, The: *See*—
Hansen, Hans H., assignor.
Mikhalapov, George S., assignor.

Technicolor Motion Picture Corporation: *See*—
Andreas, John M., assignor.

Temp-R-Lena Corporation: *See*—
Vent, Bruce R., assignor.

Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Purification of nitriles. 2,388,506; Nov. 6.

Teter, John W., and W. J. Merwin, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Dehydration of nitriles. 2,388,507; Nov. 6.

Texas Company, The: *See*—
Haskell, Nelson B., assignor.





Textron, Incorporated: *See*—
Little, R., and Jehu, assignors.

Thielemann, Rudolf H., Schenectady, N. Y., assignor to General Electric Company. Fabricating molds. 2,388,299; Nov. 6.

Tholstrup, Henry L., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Signal controlled printing apparatus. 2,388,351; Nov. 6.

Thompson, Glenn S., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,388,450; Nov. 6.

Tibbetts, Raymond E.: *See*—
Hallstrom, C. A., and Tibbetts.

Time, Incorporated: *See*—
Coleman, Roy E., assignor.

Timken Roller Bearing Company, The: *See*—
Buckwalter, T. V., and Scribner, assignors.

Timpson, Lewis G. M., Plainfield, N. J. Nozzle. 2,388,508; Nov. 6.

Titelox Manufacturing Company: *See*—
Lord, Francis Le B., assignor.

Tobiasson, George T., assignor to Universal Oil Products Company, Chicago, Ill. Reactor. 2,388,451; Nov. 6.

Toledo Scale Company: *See*—
Wood, George R., assignor.

Torrington Manufacturing Co., The: *See*—
Bergevin, Charles R., assignor.

Tracy, Harris A., Stoughton, Mass. Crutch. 2,388,374; Nov. 6.

Trico Products Corporation: *See*—
Schaal, Earl V., assignor.

Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Ordnance. 2,388,509; Nov. 6.

Tuuri, James R.: *See*—
Philips, G. B., and Tuuri.

Union Carbide and Carbon Corporation: *See*—
Jacobson, W. J., and Young, assignors.
Young, Lloyd W., assignor.

Union Metal Manufacturing Company, The: *See*—
Tashjian, Armen H., assignor.

Union Oil Company of California: *See*—
McKinnis, Art C., assignor.

United Aircraft Corporation: *See*—
Wilson, Thomas A., assignor.

United Dairy Equipment Company, The: *See*—
Rhodes, John C., assignor.

United Gas Improvement Company, The: *See*—
Soday, Frank J., assignor.
Ward, Alger L., assignor.

United Shoe Machinery Corporation: *See*—
Ashworth, Fred, assignor.
Robinson, Charles A., assignor.

United States Gypsum Company: *See*—
Linsell, Harry K., assignor.

United States Vanadium Corporation: *See*—
Burwell, Blair, assignor.

Universal Oil Products Company: *See*—
Mavity, Julian M., assignor.
Tobiasson, George T., assignor.

University of Minnesota, Regents of, The: *See*—
Smith, L. L., and King, assignors.

Vail, Thomas V.: *See*—
Paxton, C., and Vail.

Vanderbilt, R. T., Company, Inc.: *See*—
Craig, William L., assignor.

Vent, Bruce R., assignor to Temp-R-Lena Corporation, Michigan City, Ind. Comparing device. 2,388,352; Nov. 6.

Victor Chemical Works: *See*—
Omansky, Morris, assignor.

Vincent, John R.: *See*—
Neal, A. M., and Vincent.

Voge, Hervey H., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Olefin conversion. 2,388,510; Nov. 6.

Wackman, Louis B., Richmond Heights, Mo. Making reenforced chime construction for cans or containers. 2,388,300; Nov. 6.

Wagenknecht, Otto E., assignor to Zenith Radio Corporation, Chicago, Ill. Antenna for automobiles and other vehicles. 2,388,625; Nov. 6.

Waldie, William A., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Pigmented alkyd resin. 2,388,301; Nov. 6.

Ward, Alger L., Bala-Cynwyd, Pa., assignor to The United Gas Improvement Company. Chemical process and product. 2,388,583; Nov. 6.

Ward, Alger L., Bala-Cynwyd, Pa., assignor to The United Gas Improvement Company. Chemical process and product. 2,388,584; Nov. 6.

Waring, Charles E.: *See*—
Cook, S. V., and Waring.

Warner Manufacturing Company: *See*—
Warner, Thomas W., Jr., assignor.

Warner & Swasey Company, The: *See*—
Bogart, Fred H., assignor.

Warner, Thomas W., Jr., Los Angeles, assignor to Warner Manufacturing Company, Glendale, Calif. Making closure members. 2,388,375; Nov. 6.

Watson, Phillip R.: *See*—
Page, G. A., Jr., Jerger, Rugge, and Watson.

Watson, Thomas J., New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y. Lectern. 2,388,353; Nov. 6.

Weatherup, Robert A., Jacksonville, Fla. Gasoline engine. 2,388,452; Nov. 6.

Webb, George, assignor to Colt's Patent Fire Arms Manufacturing Company Hartford, Conn. Feeder for automatic firearms. 2,388,453; Nov. 6.

Weber, Romie H., Aurora, Ind. Ash receiver. 2,388,585; Nov. 6.

Wedglok Corporation: *See*—
Ringler, W. A., and Williamson, assignors.

Weeth, Eugene: *See*—
Weeth, W. W., and E., and Dollahite.

Weeth, Waldo W. and E., Coalinga, and M. E. Dollahite, Johnson City, Tex.; said Dollahite assignor to W. W. and E. Weeth. Harvester. 2,388,454; Nov. 6.

Western Electric Company, Incorporated: *See*—
Brooks, Robert E., assignor.
Cahill, Harold G., assignor.
Sirp, E., and Stull, assignors.

Westinghouse Air Brake Company, The: *See*—
Crittenden, Philip L., assignor.
Hewitt, Ellis E., assignor.

Westinghouse Electric Corporation: *See*—
Elsinger, Rudolph J., assignor.
Marbury, Ralph E., assignor.

Weyl, Woldemar A., State College, Pa., assignor to American Optical Company, Southbridge, Mass. Removal of iron from ceramic raw materials. 2,388,302; Nov. 6.

Wheatley, Edward W.: *See*—
Moncrieff, R. W., and Wheatley.

Wheelco Instruments Company: *See*—
Cohen, Theodore A., assignor.

Wheeler, John N., Hawthorne, assignor to International Business Machines Corporation, New York, N. Y. Accounting machine. 2,388,354; Nov. 6.

Whistler, L. V.: *See*—
Jackson, Arthur C., assignor.

White, Samuel O., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,388,455; Nov. 6.

Whittell, Percy, Philadelphia, Pa., and F. J. Carraine, West Collingswood, N. J., assignors to Philco Radio and Television Corporation, Philadelphia, Pa. Radio tube clamp. 2,388,650; Nov. 6.

Wickman, A. C., Limited: *See*—
Bagley, Harold R., assignor.

Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Face clutch. 2,388,456; Nov. 6.

Williams, Earl R.: *See*—
Kieselbach, H. A., and Williams.

Williamson, Arthur T., Northwich, and F. Bradley, London, England, assignors to Imperial Chemical Industries Limited. Absorption of bromine. 2,388,586; Nov. 6.

Williamson, Marshall I.: *See*—
Ringler, W. A., and Williamson.

Wilson, Delbert I.: *See*—
Joyce, W. E., Himes, and Wilson.

Wilson, Edgar I., assignor of one-third to J. M. Wilson and one-third to L. A. Larson, Oakland, Calif. Eyeglass, shield, or the like. 2,388,626; Nov. 6.

Wilson, John M., et al.: *See*—
Wilson, Edgar I., assignor.

Wilson, Thomas A., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Cooling means for electrode tips. 2,388,587; Nov. 6.

Wincharger, Corporation: *See*—
Albers, John R., assignor.

Wingfoot Corporation: *See*—
Cheyney, La Verne E., assignor.
George, E. D., and Lammertse, assignors.
Lichty, J. G., and Seeger, assignors.
Long, John R., assignor.
Schnefer, Frederic C., assignor.

Wise, Henry M., Jacksonville, Fla. Elastic measuring scale. 2,388,303; Nov. 6.

Witham, George S., Hudson Falls, N. Y. Paper making, apparatus. 2,388,627; Nov. 6.

Wolfe, George H.: *See*—
Mackenzie, D. E., and Wolfe, assignors.

Wood, George R., Montreal, Quebec, Canada, assignor to Toledo Scale Company, Toledo, Ohio. Food handling apparatus. 2,388,588; Nov. 6.

Wood, John, Manufacturing Company, Inc.: *See*—
Woodford, Joseph C., assignor.

Woodford, Joseph C., Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Pump. 2,388,601; Nov. 6.

Woodling, George V., Rocky River, Ohio. Intercepting apparatus. 2,388,589; Nov. 6.

Woodward Governor Company: *See*—
Sorensen, George E., assignor.

Wormington, Mabel L., Kansas City, Mo. Hair curler. 2,388,628; Nov. 6.

Worthington Pump and Machinery Corporation: *See*—
Sebald, Joseph F., assignor.

Wright Aeronautical Corporation: *See*—
Moore, Vincent T., assignor.
Wright, Richard C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Hot gas outlet thimble. 2,388,511; Nov. 6.
Wunsch, Guido, Berlin-Wannsee, Germany; vested in the Alien Property Custodian. Regulating device for steam generators. 2,388,512; Nov. 6.
Young, Lloyd W.: *See*—
Jacobson, W. J., and Young.
Young, Lloyd W., Elisabeth, N. J., assignor to Union Carbide and Carbon Corporation. Templet-following machine. 2,388,376; Nov. 6.
Zappacosta, Amedeo D., Philadelphia, Pa., assignor to Radio Corporation of America. Combined volume and selectivity control device. 2,388,590; Nov. 6.
Zenith Radio Corporation: *See*—
Wagenknecht, Otto E., assignor.
Ziegler, John G., assignor to Taylor Instrument Companies, Rochester, N. Y. Controlling system. 2,388,457; Nov. 6.
Zwickel, Elmer L., Chicago, Ill. Aerial toy. 2,388,513; Nov. 6.
Zwicker, Benjamin M. G., Akron, Ohio, and W. D. Stewart, Yonkers, assignors to The B. F. Goodrich Company, New York, N. Y. Modifiers for polymerization of butadiene-1,3 hydrocarbons. 2,388,514; Nov. 6.
Zwicker, Benjamin M. G., Akron, Ohio, and W. D. Stewart, Yonkers, assignors to The B. F. Goodrich Company, New York, N. Y. Modifiers for polymerization of butadiene-1,3 hydrocarbons. 2,388,515; Nov. 6.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Drilling bit, Removable. C. C. Koeln. Re. 22,690; Nov. 6.
Ice making apparatus. G. S. Hill. Re. 22,689; Nov. 6.
Molding process, Veneer. C. U. Gramelspacher. Re. 22,687; Nov. 6.
Thermal responsive device. F. R. Higley. Re. 22,688; Nov. 6.

# LIST OF DESIGN INVENTIONS

Belt and purse, Combined. E. Hentz. 142,781–2; Nov. 6.
Board, Bowling game. R. F. Boening. 142,770; Nov. 6.
Board, Cribbage. C. R. Reaves. 142,791; Nov. 6.
Board, Game. C. W. Redpath. 142,790; Nov. 6.
Bottle. H. Genske. 142,778; Nov. 6.
Cabinet, Music. H. Batlin. 142,768; Nov. 6.
Carrier, Bottle. A. M. Jacobson. 142,783; Nov. 6.
Case, Refrigerated display. R. E. Davis. 142,773; Nov. 6.
Chair or similar article. B. R. Weill. 142,801–2; Nov. 6.
Chair seat-back unit. R. C. Watson. 142,800; Nov. 6.
Chopper, Food. D. Papkin. 142,789; Nov. 6.
Claw, Milking machine. G. A. Anderson. 142,766; Nov. 6.
Container for bottles, Insulated. P. Schlumbohm. 142,795; Nov. 6.
Crucible or similar article. J. J. Ripich. 142,792; Nov. 6.
Dress. Z. Golden. 142,779; Nov. 6.
Dress. S. Zahn. 142,804–5; Nov. 6.
Feeder, Hog. G. L. Running and E. V. La Salle. 142,793; Nov. 6.
Flashlight. E. L. Schofield 142,796; Nov. 6.
Float, Fishing. G. M. Marsh. 142,787; Nov. 6.
Fork or other article of flatware. I. A. Lipman. 142,786; Nov. 6.
Glove. C. E. Zimmerman. 142,806; Nov. 6.
Hammer. G. D. Cline, Jr. 142,772; Nov. 6.
Holder, Cigar and cigarette. W. C. Taylor. 142,797; Nov. 6.
Holder, Combined pipe rack and match. W. H. J. Downey. 142,776; Nov. 6.
Hood, Carriage. S. and N. J. Kroll. 142,785; Nov. 6.
Housing for a solenoid operated valve. H. G. Chapman, Jr. 142,771; Nov. 6.
Kazoo. J. Thompson. 142,799; Nov. 6.
Knob or similar article, Control. M. Eatham. 142,777; Nov. 6.
Lighter, Cigarette. D. C. Jones. 142,784; Nov. 6.
Lighting unit or similar article, Automatic emergency. H. S. Bird. 142,769; Nov. 6.
Marker, Corner. J. R. Mathews and W. A. Davidson. 142,788; Nov. 6.
Mirror, Hand. M. Salinger. 142,794; Nov. 6.
Ornament, Hair. M. Antritter. 142,767; Nov. 6.
Pad unit, Memorandum note. L. di Rebaylio. 142,775; Nov. 6.
Plate for automobiles, Display. H. E. Dice. 142,774; Nov. 6.
Slipper, Boudoir. S. M. Groff. 142,780; Nov. 6.
Toy or similar article. G. Winston and A. B. Sawyer. 142,803; Nov. 6.
Toy wheelbarrow. H. D. Allen. 142,762–5; Nov. 6.
Tray, receptacle, and game device, Combined serving. E. B. Taylor. 142,798; Nov. 6.

# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine. J. N. Wheeler. 2,388,354; Nov. 6.
Acid chlorides, Preparation of. J. R. Long. 2,388,657; Nov. 6.
Air conditioning apparatus. R. J. Elsinger. 2,388,314; Nov. 6.
Air or gas pump. H. G. Eudy. 2,388,398; Nov. 6.
Air propelled vehicle. A. Cargill. 2,388,307; Nov. 6.
Airplane. M. Berkow. 2,388,247; Nov. 6.
Airplane construction. C. H. Bathurst. 2,388,380; Nov. 6.
Airplane structures, Making. M. Jensen. 2,388,485; Nov. 6.
Alloy rivets and product, Treating aluminum. E. C. Hartmann. 2,388,540; Nov. 6.
Amines from nitrogen compounds, Production of secondary. W. S. Emerson. 2,388,606; Nov. 6.
Amines from nitrogen compounds, Production of secondary. W. S. Emerson. 2,388,608; Nov. 6.
Amines from nitrogen compounds, Production of teritary. W. S. Emerson. 2,388,607; Nov. 6.
Antenna for automobiles and other vehicles. O. E. Wagenknecht. 2,388,625; Nov. 6.
Antenna, Portable. A. G. Richardson. 2,388,287; Nov. 6.
Apparatus for absorbing decomposition products. F. M. Clark. 2,388,524; Nov. 6.
Apparatus for applying coating. R. S. Eisner. 2,388,605; Nov. 6.
Apparatus for continuous conversion of hydrocarbons. P. Ostergaard. 2,388,642; Nov. 6.
Apparatus for copying documents and the like. R. A. Higonnet and L. N. Chereau. 2,388,264; Nov. 6.
Apparatus for folding, banding, and mounting paper tickets. R. F. Palmer. 2,388,433; Nov. 6.
Apparatus for homogenizing mixed liquid ingredients. J. C. Rhodes. 2,388,573; Nov. 6.
Apparatus for measuring rate of movement. A. H. Davis, Jr. 2,388,256; Nov. 6.
Apparatus for producing stayed boxes. M. P. Junkin. 2,388,266; Nov. 6.
Apparatus for spinning tubular articles. G. J. Horak. 2,388,545; Nov. 6.
Apparatus for swaging tubular blanks. F. J. Rode and M. R. Hatch. 2,388,643; Nov. 6.
Aromatic diazo compounds and derivatives thereof, Therapeutically active. E. A. H. Friedheim. 2,388,260; Nov. 6.
Article working apparatus. E. Sirp and J. S. Stull. 2,388,621; Nov. 6.
Attachment for flush tanks. E. B. Green. 2,388,480; Nov. 6.
Attachment for ironing boards. A. Montalbano. 2,388,492; Nov. 6.
Automatic dishwashers, Rinsing head for. G. J. Federighi. 2,388,258; Nov. 6.
Automatic loading machine. A. A. Campbell. 2,388,250; Nov. 6.
Automatic pattern controlled machine tool. H. P. Kuehni and N. G. Branson. 2,388,555; Nov. 6.
Automatic pressure controls for low temperature, low-pressure, fractionating columns. D. R. Douslin. 2,388,312; Nov. 6.
Automatic tuning in of wireless receiving sets to desired broadcasting stations. G. Soffietti. 2,388,581; Nov. 6.
Auto trailer brake. L. G. Miller. 2,388,336; Nov. 6.
Band, Expansion. L. Kreisler and J. G. Siska. 2,388,554; Nov. 6.
Bearing: *See*—
Shaft bearing.
Beta-chloroallyl acrylates. C. E. Rehberg and C. H. Fisher. 2,388,440; Nov. 6.
Beta-picoline, Recovering pure. G. Riethof. 2,388,499; Nov. 6.
Bichalcogenous material. W. J. Burke. 2,388,597; Nov. 6.
Billfold. L. L. Sherwood. 2,388,444; Nov. 6.
Binders and split rings therefor, Making. C. E. Emmer. 2,388,397; Nov. 6.
Blasting cap fuse protector. J. S. Curtiss. 2,388,310; Nov. 6.
Board: *See*—
Gauge board.
Bodied oil and method. O. and G. Eisenschiml. 2,388,257; Nov. 6.
Boiler: *See*—
Fire-tube boiler.
Bolt. W. H. Pumphrey. 2,388,658; Nov. 6.
Bomb. C. S. Allen, Jr. 2,388,459; Nov. 6.
Box. M. P. Junkin. 2,388,267; Nov. 6.
Bracket for roof boards. J. Kott. 2,388,420; Nov. 6.



Brake: *See*—
Auto trailer brake.
Brake release valve. O. E. Hamrick. 2,388,538; Nov. 6.
Brassière. H. Gluckin. 2,388,535; Nov. 6.
Bromine, Absorption of. A. T. Williamson and F. Bradley. 2,388,586; Nov. 6.
Broom, Cleaning. J. Friedel. 2,388,356; Nov. 6.
Burner: *See*—
Oil burner. Wall flame type burner.
Burner control apparatus. T. A. Cohen. 2,388,386; Nov. 6.
Cable: *See*—
Transmission cable.
Camera-diaphragm adjuster, Automatic. A. I. Ericsson. 2,388,609; Nov. 6.
Candling device, Egg. J. J. Balocchi. 2,388,518; Nov. 6.
Cans or containers, Making reenforced chime construction for. L. B. Wackman. 2,388,300; Nov. 6.
Cantilever retaining wall structure and making the same. A. H. Tashjian. 2,388,624; Nov. 6.
Carton. E. L. Arneson. 2,388,243; Nov. 6.
Catalysis of organic reactions. J. M. Mavity. 2,388,428; Nov. 6.
Catalysts for the addition polymerization of unsaturated organic compounds. W. D. Stewart. 2,388,372–3; Nov. 6.
Catalytic reforming. R. G. Gunness. 2,388,536; Nov. 6.
Cell, Blocking layer. C. de Lange and C. L. Boucher. 2,388,532; Nov. 6.
Centering device, Casing. M. C. Johnson. 2,388,416; Nov. 6.
Ceramic wares, Manufacture of. H. R. Straight. 2,388,446; Nov. 6.
Chair: *See*—
Collapsible chair.
Chemical immersion heater. W. A. Caldwell. 2,388,466; Nov. 6.
Chemical process and product. A. L. Ward. 2,388,583–4; Nov. 6.
Cigarette package cover. L. V. Bell. 2,388,519; Nov. 6.
Circular knit hosiery and making same. H. N. Sheppard. 2,388,649; Nov. 6.
Clamp: *See*—
Radio tube clamp.
Clamp for spherical joints. C. M. De Woody. 2,388,633; Nov. 6.
Cleaner: *See*—
Smut remover and grain cleaner. Suction cleaner.
Windshield cleaner.
Cleaning machine, Fur. N. Root. 2,388,619; Nov. 6.
Clip: *See*—
Interlocking clip.
Closure members, Making. T. W. Warner, Jr. 2,388,375; Nov. 6.
Clutch: *See*—
Face clutch. One-way rotary clutch.
Clutch mechanism, Toothed. H. H. Hansen. 2,388,407; Nov. 6.
Coating apparatus, Spray. F. A. Bailey and G. A. Miller. 2,388,517; Nov. 6.
Coating composition, Preparing a. W. L. Craig. 2,388,526; Nov. 6.
Coating strips, Method of and apparatus for. W. P. Osgood. 2,388,494; Nov. 6.
Coffee maker. P. J. McCullough. 2,388,335; Nov. 6.
Coils, Making. H. G. Cahill. 2,388,598; Nov. 6.
Collapsible chair. C. H. Korte. 2,388,552; Nov. 6.
Combined flame arrester and vent valve. J. J. Duggan. 2,388,395; Nov. 6
Combustion heater. G. A. Page, Jr., J. Jerger, R. Rugge, and P. R. Watson. 2,388,364; Nov. 6.
Comparing device. B. R. Vent. 2,388,352; Nov. 6.
Composite article including extruded sections. C. E. Slaughter. 2,388,297; Nov. 6.
Container: *See*—
Fibrous container.
Container for aseptic filling and dispensing of sterile liquids. C. M. De Woody. 2,388,634; Nov. 6.
Continuous strip-handling reel. J. M. Andreas. 2,388,591; Nov. 6.
Control apparatus. E. E. Hewitt. 2,388,357; Nov. 6.
Control apparatus. D. G. Taylor. 2,388,350; Nov. 6.
Control mechanism for fluid operated parts of machine tools. H. R. Bagley. 2,388,460; Nov. 6.
Control system. H. E. Marbury. 2,388,639; Nov. 6.
Control valve. T. E. Mead. 2,388,590; Nov. 6.
Controlling system. J. G. Ziegler. 2,388,457; Nov. 6.
Converter, Fluid torque. J. Jandasek. 2,388,329; Nov. 6.
Conveyor. J. A. Porter. 2,388,283; Nov. 6.



Cooling means for electrode tips. T. A. Wilson. 2,388,587; Nov. 6.
Copper arsenicals, Preparing. G. W. Pearce and A. W. Avens. 2,388,496; Nov. 6.
Cosmetic unit. M. de Botelho. 2,388,470; Nov. 6.
Coupling: *See*—
Hydraulic coupling. Mutual coupling.
Cover: *See*—
Cigarette package cover.
Crane, Soaking-pit. R. J. Harry. 2,388,408; Nov. 6.
Cross-linked polyesters and electrical conductors containing them. C. S. Fuller. 2,388,319; Nov. 6.
Crutch. H. A. Tracy. 2,388,374; Nov. 6.
Curler, Hair. M. L. Wormington. 2,388,628; Nov. 6.
Cut-off machine, Abrasive. W. A. Phillis. 2,388,434; Nov. 6.
Cylinder, Garnett. W. F. Bokum. 2,388,631; Nov. 6.
Deaerating feed-water heater. J. F. Sebald. 2,388,344; Nov. 6.
Dehorning paste applicator. O. Gereke. 2,388,321; Nov. 6.
Dehumidification agents, Use of. W. A. La Lande, Jr. 2,388,616; Nov. 6.
Derivatives of aminobenzene sulphonamides. G. F. D'Alelio and J. J. Pyle. 2,388,529; Nov. 6.
Desiccating agent. S. V. Cook and C. E. Waring. 2,388,390; Nov. 6.
Die and making same. J. S. Curtiss, Jr. 2,388,528; Nov. 6.
Die stock. G. Roper. 2,388,290; Nov. 6.
Direct-current motor. G. A. Reinhard. 2,388,498; Nov. 6.
Disinfectant compositions. J. E. Kirby and J. F. Lontz. 2,388,614; Nov. 6.
Display sign. A. M. Ryan. 2,388,646; Nov. 6.
Distillation unit. J. C. Cleaver and J. V. Resek. 2,388,599; Nov. 6.
Dog, Lathe. R. R. Stewart and T. R. De Long. 2,388,622; Nov. 6.
Door: *See*—
Overhead door.
Draft control, Barometric. A. O. Dady. 2,388,253; Nov. 6.
Drilling machine, Diamond die. H. G. Hanemann. 2,388,610; Nov. 6.
Drilling machine. A. B. MacNeill. 2,388,362; Nov. 6.
Easel, Display. J. H. Puerner. 2,388,435; Nov. 6.
Ejector and guard for chuck keys. L. Jernigan. 2,388,414; Nov. 6.
Electric apparatus. K. K. Paluev. 2,388,565–6; Nov. 6.
Electric switch. C. A. Schaefer. 2,388,342; Nov. 6.
Electriomagnetic wave direction indicator. A. Ganiayre and R. Hardy. 2,388,262; Nov. 6.
Electron discharge device. V. L. Ronci. 2,388,289; Nov. 6.
Electroresponsive system. F. Crever. 2,388,527; Nov. 6.
Elevator and drier, Combined sand. J. G. Forster and L. G. Plant. 2,388,399; Nov. 6.
Emulsion, Polymerization in. H. M. Collins. 2,388,600; Nov. 6.
Engine: *See*—
Gasoline engine.
Engine starter. G. S. Thompson. 2,388,450; Nov. 6.
Esters having amphoteric properties, Fatty acid. J. W. Orelup. 2,388,281; Nov. 6.
Extrusion press and operating same, Metal. L. Loewy. 2,388,558; Nov. 6.
Eyeglass, shield, or the like. E. I. Wilson. 2,388,626; Nov. 6.
Face clutch. E. Wildhaber. 2,388,456; Nov. 6.
Fastening device, Plate. J. De Mooy. 2,388,603; Nov. 6.
Fats, Treating raw animal. E. Ratner. 2,388,284; Nov. 6.
Feeder for automatic firearms. G. Webb. 2,388,453; Nov. 6.
Feeding device, Automatic. L. F. Glaude. 2,388,405; Nov. 6.
Fiber products, Making compressed. H. K. Linsell. 2,388,487; Nov. 6.
Fibrous container. H. E. McCrery. 2,388,277; Nov. 6.
File, Fingernail. F. J. Sapyak. 2,388,292; Nov. 6.
Firearm. H. E. Eklund. 2,388,396; Nov. 6.
Fire control. R. I. Markey. 2,388,489; Nov. 6.
Fire-tube boiler. H. G. Sawyer. 2,388,647; Nov. 6.
Firing mechanism. W. B. Ruger. 2,388,443; Nov. 6.
Fluid control valve. C. Shendrick. 2,388,369; Nov. 6.
Fluid meter. E. E. Bidwell. 2,388,248; Nov. 6.
Folding clothes rack. E. T. John. 2,388,637; Nov. 6.
Food handling apparatus. G. R. Wood. 2,388,588; Nov. 6.
Frame: *See*—
Saw frame.
Frequency modulation receiver intensity indicator. P. F. G. Holst and L. R. Kirkwood. 2,388,544; Nov. 6.
Friction drive. H. A. McKee. 2,388,491; Nov. 6.
Fuel supply for two-cycle, crankcase compression engines. L. T. Kincannon. 2,388,331; Nov. 6.
Fuel supply means, Underfired coke oven. C. Otto. 2,388,438; Nov. 6.
Fuse protector device. J. S. Curtiss. 2,388,309; Nov. 6.
Game, Baseball. G. Shenker. 2,388,577; Nov. 6.
Garage door holder. J. E. McJimsey. 2,388,490; Nov. 6.
Garment, Form constricting and molding. F. A. Caben. 2,388,525; Nov. 6.
Garment opening, Double-piped. F. Altobelli. 2,388,516; Nov. 6.
Gas manufacture. E. E. Stimson. 2,388,348; Nov. 6.
Gaseous mixtures, Recovery of sulphur from. E. P. Fleming and T. C. Fitt. 2,388,259; Nov. 6.
Gases, Administration of inhalant. W. Edmondson and W. Jones. 2,388,533; Nov. 6.
Gasoline engine. R. A. Weatherup. 2,388,452; Nov. 6.
Gauge board. W. L. Fry. 2,388,402; Nov. 6.
Gear fairing, Retractable landing. I. N. Palley. 2,388,365; Nov. 6.
Generator: *See*—
Steam generator.
Generator, Steam. G. A. Skaggs. 2,388,345; Nov. 6.
Gland extracts, Obtaining. R. L. Johes. 2,388,417; Nov. 6.
Glass, Method and apparatus for making. A. K. Lyle. 2,388,274; Nov. 6.
Goggle, Utility. E. A. Ring. 2,388,574; Nov. 6.
Goggles. H. M. Ditto. 2,388,635; Nov. 6.
Golf club, Practice. L. A. Benecke. 2,388,463; Nov. 6.
Grid structure for ice trays. L. J. Amore. 2,388,378; Nov. 6.
Guide thread. F. A. Decker, Jr. 2,388,239; Nov. 6.
Gun, Grease. S. F. Czerner. 2,388,391; Nov. 6.
Gun, Machine. W. B. Ruger. 2,388,291; Nov. 6.
Hairpin. C. O. Bergstrom. 2,388,381; Nov. 6.
Harvester. W. W. and E. Weeth and M. E. Dollahite. 2,388,454; Nov. 6.
Heater: *See*—
Chemical immersion heater. Deaerating feed-water heater.
Combustion heater.
Helical binders, Manufacture of. A. Freundlich. 2,388,401; Nov. 6.
Helicopter. R. R. Hays. 2,388,653; Nov. 6.
Helmet, Welder's. M. Eisenbud. 2,388,604; Nov. 6.
Heterocyclic compounds, Making. L. I. Smith and J. A. King. 2,388,579; Nov. 6.
Holder: *See*—
Garage door holder. Pie holder.
Motor vehicle identification tag holder.
Hook: *See*—
Ladder hook.
Hydraulic coupling. C. Popper. 2,388,571; Nov. 6.
Hydraulic pump, fluid motor, or compressor. G. Roessler. 2,388,644; Nov. 6.
Hydrocarbons, Separation of. A. C. McKinnis. 2,388,429; Nov. 6.
Ignition composition. G. F. Rolland. 2,388,368; Nov. 6.
Indicator: *See*—
Electriomagnetic wave direction indicator. Totalizing liquid level indicator.
Frequency modulation receiver intensity indicator.
Indicator. E. V. Sundt and J. Purcell. 2,388,448–9; Nov. 6.
Insecticide. H. J. Diem. 2,388,393; Nov. 6.
Inspection light. G. Ellis. 2,388,474; Nov. 6.
Insulating shape and manufacture, High temperature. H. A. Kieselbach and E. R. Williams. 2,388,549; Nov. 6.
Intercepting apparatus. G. V. Woodling. 2,388,589; Nov. 6.
Interlocking clip. W. F. Regenhardt. 2,388,572; Nov. 6.
Ironing apparatus. C. J. Davies. 2,388,392; Nov. 6.
Jar lifter. M. T. Starr. 2,388,623; Nov. 6.
Joinders in sheet materials. W. A. Ringler and M. I. Williamson. 2,388,288; Nov. 6.
Kite, Target. P. E. Garber. 2,388,478; Nov. 6.
Ladder hook. E. T. John. 2,388,415; Nov. 6.
Laminated articles from veneer or like sheet material, Manufacturing. J. Henderson. 2,388,541; Nov. 6.
Lasting machine. C. A. Robinson. 2,388,367; Nov. 6.
Leaching method and apparatus. L. C. Sturbelle. 2,388,504; Nov. 6.
Lectern. T. J. Watson. 2,388,353; Nov. 6.
Lifter: *See*—
Jar lifter.
Light: *See*—
Inspection light.
Ligno-cellulose pulps from straw, Making. A. J. A. Asplund and J. W. Holst. 2,388,592; Nov. 6.
Liquid stop, Safety. J. B. Green. 2,388,481; Nov. 6.
Load protecting mechanism. C. W. Ackerman and E. A. Fierbaugh. 2,388,304; Nov. 6.
Loading device, Material. C. A. Onofrio. 2,388,436; Nov. 6.
Lock: *See*—
Manhole cover lock.
Lock stud. F. Le B. Lord. 2,388,273; Nov. 6.
Lubricant conditioner. F. B. Harvuot. 2,388,636; Nov. 6.
Lubricant heating system for turbo-supercharges and the like. J. C. Buechel. 2,388,523; Nov. 6.
Lubricating and plasticizing composition, Rubber. M. Omansky. 2,388,618; Nov. 6.
Machine for shaping fasteners. D. W. Fether. 2,388,355; Nov. 6.
Machine tool. F. H. Bogart. 2,388,594; Nov. 6.
Machine tool. R. A. Johnson. 2,388,265; Nov. 6.
Machine tool attachment. L. A. Gardiner. 2,388,320; Nov. 6.

Magazine for automatic firearms. G. Ironside. 2,388,413; Nov. 6.
Magnetic track brake control apparatus. P. L. Crittenden. 2,388,235; Nov. 6.
Magnetite concentrates by flotation, Beneficiation of. F. D. De Vaney. 2,388,471; Nov. 6.
Manhole cover lock. J. J. Morris and W. C. Stohldreier. 2,388,561; Nov. 6.
Manufacture of gasoline. N. B. Haskell. 2,388,322; Nov. 6.
Manufacture of pigments. L. W. Ryan and H. L. Sanders. 2,388,659; Nov. 6.
Marking circular knit fabric for boarding, Method and machine for. H. N. Sheppard. 2,388,648; Nov. 6.
Material feeding mechanism, Light sensitive. S. W. Langdon. 2,388,423; Nov. 6.
Material gathering and loading machine. F. Cartlidge. 2,388,385; Nov. 6.
Measuring center spacing, Method of and apparatus for. G. E. Sorensen. 2,388,582; Nov. 6.
Measuring the time interval for moving bodies to traverse predetermined distances, System for. T. A. Cohen. 2,388,387; Nov. 6.
Mechanism and control for controllable aircraft propellers. H. M. McCoy. 2,388,276; Nov. 6.
Meter: *See*—
Fluid meter.
Mill: *See*—
Rolling mill. Tube reducing mill.
Modifiers for polymerization of butadiene-1,3 hydrocarbons. C. F. Fryling. 2,388,477; Nov. 6.
Modifiers for polymerization of butadiene-1,3 hydrocarbons. B. M. G. Zwicker and W. D. Stewart. 2,388,514–5; Nov. 6.
Mold for concrete bombs. R. P. Petersen. 2,388,569; Nov. 6.
Molds, Fabricating. R. H. Thielemann. 2,388,299; Nov. 6.
Motor: *See*—
Direct-current motor.
Motor control. C. Brongersma. 2,388,382; Nov. 6.
Motor vehicle identification tag holder. C. T. and L. H. Storm. 2,388,349; Nov. 6.
Mount, Picture. H. Neiman. 2,388,431; Nov. 6.
Mounting for dual wheels. E. V. Garnett and V. G. Garnett. 2,388,403; Nov. 6.
Multiple metering pump. L. Beeh. 2,388,462; Nov. 6.
Multiple work support. G. S. Boyd. 2,388,521; Nov. 6.
Multiport rotary valve. A. Krombout. 2,388,268; Nov. 6.
Mute for stringed musical instruments. R. B. Kingman. 2,388,550; Nov. 6.
Mute, Stringed instrument. R. B. Kingman. 2,388,551; Nov. 6.
Mutual coupling. R. F. Shea. 2,388,295; Nov. 6.
Nitriles, Dehydration of. J. W. Teter and W. J. Merwin. 2,388,507; Nov. 6.
Nitriles, Purification of. J. W. Teter. 2,388,506; Nov. 6.
Nitrogen-containing resins exchanging anions in fluid media. P. I. Bowman and H. Burrell. 2,388,235; Nov. 6.
Nozzle. L. G. M. Timpson. 2,388,508; Nov. 6.
Nozzle, Combination valve. W. H. Leinweber. 2,388,334; Nov. 6.
Nut, Internal lock. F. Le B. Lord. 2,388,272; Nov. 6.
Nut unit, Flanged lock. F. Le B. Lord. 2,388,271; Nov. 6.
Nut unit, Lock. F. Le B. Lord. 2,388,270; Nov. 6.
Nuts from punched blanks, Making grip. E. J. Cole. 2,388,467; Nov. 6.
Oil burner. J. S. Daniels. 2,388,254; Nov. 6.
Oil, Cutting. L. R. Raymond. 2,388,439; Nov. 6.
Oil, Fractionation of tall. A. W. Hixson and R. Miller. 2,388,412; Nov. 6.
Olefin conversion. H. H. Voge. 2,388,510; Nov. 6.
One-way rotary clutch. J. Lund. 2,388,424; Nov. 6.
Opener, Can. F. K. Krag. 2,388,615; Nov. 6.
Ophthalmic device. G. M. Nelsen. 2,388,493; Nov. 6.
Ordnance. J. C. Trotter. 2,388,509; Nov. 6.
Oscillating code transmitter. R. W. Hewes. 2,388,484; Nov. 6.
Overhead door. V. L. Holmes. 2,388,654; Nov. 6.
Pad: *See*—
Riverter's hand pad.
Paint compositions. J. G. Lichty and N. V. Seeger. 2,388,656; Nov. 6.
Paper, Coating. C. Paxton and T. H. Vail. 2,388,339; Nov. 6.
Paper making apparatus. G. S. Witham. 2,388,627; Nov. 6.
Parachute harness. C. E. Ashton. 2,388,379; Nov. 6.
Pattern chain for knitting machines and the like. S. C. Doughty. 2,388,311; Nov. 6.
Paving stripping apparatus. H. E. Baker. 2,388,461; Nov. 6.
Pencil leads and similar articles, Making graphite. H. R. Straight. 2,388,447; Nov. 6.
Phonograph, Automatic. J. A. Boyajian. 2,388,595; Nov. 6.
Photographic device. W. L. Appling. 2,388,240; Nov. 6.
Photographic devices and appurtenances for reproduction purposes. S. Drucker. 2,388,394; Nov. 6.
Pie holder. V. E. Reyburn. 2,388,442; Nov. 6.
Piezoelectric crystal. R. E. Brooks. 2,388,596; Nov. 6.
Pile fabrics, Production of. T. A. Brown. 2,388,465; Nov. 6.
Pipe: *See*—
Tobacco pipe.
Pipe clamping device. O. Staff. 2,388,371; Nov. 6.
Piston. V. T. Moore. 2,388,363; Nov. 6.
Piston construction. O. Krastel. 2,388,422; Nov. 6.
Plant, Electric wind. J. R. Albers. 2,388,377; Nov. 6.
Plaster casts, Preparing. G. A. Hoggatt. 2,388,543; Nov. 6.
Plug: *See*—
Spark plug.
Plunger packing. A. St. J. Bowie. 2,388,520; Nov. 6.
Pneumatic tire. H. T. Kraft and F. H. Comey. 2,388,421; Nov. 6.
Potentiometer. R. K. Frazier. 2,388,534; Nov. 6.
Polyesters. C. J. Frosch. 2,388,318; Nov. 6.
Polymeric acetals, Making. J. Dahle. 2,388,238; Nov. 6.
Preparation of p-cymene from a mono-cyclic terpene. W. Hull. 2,388,359; Nov. 6.
Preparing cadavers for burial. C. P. Moody. 2,388,337; Nov. 6.
Preserving rubber. A. M. Neal and J. R. Vincent. 2,388,562; Nov. 6.
Press: *See*—
Sole attaching press.
Pressure measuring device. W. V. Hobbs. 2,388,542; Nov. 6.
Primer pocket. S. A. Snell. 2,388,370; Nov. 6.
Printing device index. H. P. Elliott. 2,388,315; Nov. 6.
Producing molding compositions and the products thereof. P. C. Schroy, J. Grabowski, and M. J. Scott. 2,388,293; Nov. 6.
Production of highly polymeric organic compounds. R. W. Moncrieff and E. W. Wheatley. 2,388,278; Nov. 6.
Propeller, Airplane. B. Bergen. 2,388,464; Nov. 6.
Propiolyl halides and making them. F. C. Schaefer. 2,388,660; Nov. 6.
Proportioner, Spraying. J. W. R. Stewart. 2,388,445; Nov. 6.
Protective cape, Welder's. G. H. Abel. 2,388,234; Nov. 6.
Protector: *See*—
Blasting cap fuse protector. Wrist protector.
Pump: *See*—
Air or gas pump. Multiple metering pump.
Pump. J. C. Woodford. 2,388,661; Nov. 6.
Punch and die setting. A. C. Jackson. 2,388,546; Nov. 6.
Pyrrole, Recovery of. K. H. Engel. 2,388,475; Nov. 6.
Rack: *See*—
Folding clothes rack. Towel rack.
Radio direction finding system. C.-E. Granqvist. 2,388,263; Nov. 6.
Radio receiver, Portable. G. Patterson, Jr. 2,388,567; Nov. 6.
Radio signal system. S. W. Seeley and J. A. Rankin. 2,388,576; Nov. 6.
Radio tube clamp. P. Whittell and F. J. Carraine. 2,388,650; Nov. 6.
Rake, Tractor. P. P. Hicks. 2,388,411; Nov. 6.
Rate of rise circuit contact operating device. J. F. Rowe and J. E. Rowe. 2,388,645; Nov. 6.
Reaction products of secondary aliphatic alcohol and formaldehyde and producing the same. M. T. Harvey. 2,388,409; Nov. 6.
Reactor. G. T. Tobiasson. 2,388,451; Nov. 6.
Receiver, Ash. R. H. Weber. 2,388,585; Nov. 6.
Record reproducing system. C. M. Sinnett and R. Snepvangers. 2,388,578; Nov. 6.
Reel: *See*—
Continuous strip-handling reel.
Refrigerating system. H. F. Lathrop. 2,388,556; Nov. 6.
Regulating device for steam generators. G. Wunsch. 2,388,512; Nov. 6.
Removal of iron from ceramic raw materials. W. A. Weyl. 2,388,302; Nov. 6.
Resin, Pigmented alkyd. W. A. Waldie. 2,388,301; Nov. 6.
Resins, Ketone. V. E. Haury. 2,388,410; Nov. 6.
Resolution of mixtures of chlorosilanes. R. O. Sauer and C. E. Reed. 2,388,575; Nov. 6.
Retaining means for badges, brooches, ornaments, bars for decorative ribbons, or the like. A. W. Madger. 2,388,427; Nov. 6.
Retractable support. F. T. Court. 2,388,308; Nov. 6.
Riboflavin solution. D. V. Frost. 2,388,261; Nov. 6.
Riveter's hand pad. F. W. Ottmer. 2,388,437; Nov. 6.
Roasting vegetable material. T. J. Stephens. 2,388,298; Nov. 6.
Rolling mill. T. V. Buckwalter and W. L. Scribner. 2,388,249; Nov. 6.
Roughing machine, Sole. W. C. Card. 2,388,384; Nov. 6.
Rubber compositions containing hydrocarbon resins. F. J. Soday. 2,388,346; Nov. 6.
Rubber hydrochloride. La V. E. Cheyney. 2,388,651; Nov. 6.
Salts of acid esters as inhibitors in lubricating oils, Vanadium. F. C. Frank, D. E. Badertscher, and H. G. Berger. 2,388,400; Nov. 6.
Sampling device, Liquid. A. E. Jurs, Jr. 2,388,548; Nov. 6.





Sash and screen, Storm. R. W. Gill. 2,388,404; Nov. 6.
Saw frame. K. H. Lenk. 2,388,655; Nov. 6.
Scale, Elastic measuring. H. M. Wise. 2,388,303; Nov. 6.
Screw machine. W. E. Joyce, W. H. Hilmes, and D. I. Wilson. 2,388,612; Nov. 6.
Screw, Surgical. H. H. Haynes. 2,388,482; Nov. 6.
Scribing tool. A. J. Lynex. 2,388,361; Nov. 6.
Sealing composition. N. J. Penning. 2,388,568; Nov. 6.
Seeder, Garden. W. Schrader. 2,388,501; Nov. 6.
Shaft bearing. G. B. Philips and J. R. Tuuri. 2,388,570; Nov. 6.
Shaft bearing. L. C. Steinle and C. H. Hanwell. 2,388,503; Nov. 6.
Shaver, Motor-operated. C. W. Holcomb. 2,388,324; Nov. 6.
Sheet, moistureproof. W. L. Hyden and J. A. Mitchell. 2,388,326; Nov. 6.
Shell, Rocket. H. M. Renner. 2,388,286; Nov. 6.
Shipper mechanism for excavating shovels. R. A. Beckwith. 2,388,305; Nov. 6.
Shoe. F. N. La Chapelle. 2,388,333; Nov. 6.
Shoe machine. F. Ashworth. 2,388,244–5; Nov. 6.
Sign: *See*—
Display sign.
Signal controlled printing apparatus. H. L. Tholstrup. 2,388,351; Nov. 6.
Signaling, Low frequency. H. B. Deal. 2,388,531; Nov. 6.
Signaling system. E. M. Staples, E. R. Taylor, and H. J. Michael. 2,388,347; Nov. 6.
Signaling system, Power line. H. B. Deal. 2,388,530; Nov. 6.
Skirt construction. J. H. Rudolph. 2,388,341; Nov. 6.
Slide loop. G. H. Elwell. 2,388,316–17; Nov. 6.
Slide member for measuring and marking devices. C. J. Crane. 2,388,252; Nov. 6.
Smut remover and grain cleaner. H. Schmidt. 2,388,343; Nov. 6.
Soap product, Granular. D. R. Byerly. 2,388,632; Nov. 6.
Sole attaching press. K. W. Macdonald. 2,388,426; Nov. 6.
Solid products, Manufacturing. H. Keller. 2,388,613; Nov. 6.
Spark plug. J. O. C. di-Tona. 2,388,472; Nov. 6.
Speed governing mechanism, Centrifugal type. H. M. Otto. 2,388,282; Nov. 6.
Spinning artificial filaments. R. C. Houts. 2,388,325; Nov. 6.
Springs, Making. C. A. Hallstrom and R. E. Tibbetts. 2,388,537; Nov. 6.
Stabilized organic substances and stabilizing same. M. H. Daskals and E. K. Fields. 2,388,255; Nov. 6.
Starter for internal-combustion engines. H. da Costa. 2,388,469; Nov. 6.
Steam generator. G. A. Skaggs. 2,388,345; Nov. 6.
Still. G. T. Jacocks. 2,388,328; Nov. 6.
Stoking apparatus. C. E. Shaffer and A. B. Fisher, Jr. 2,388,294; Nov. 6.
Stove. J. Bilan. 2,388,593; Nov. 6.
Suction cleaner. J. H. Nuffer and L. H. Latta. 2,388,279–80; Nov. 6.
Sulphides thiocarbamyl piperidyl. R. H. Cooper. 2,388,236; Nov. 6.
Sulphur compounds, Organic. J. Compton. 2,388,468; Nov. 6.
Support: *See*—
Multiple work support. Tool suport.
Retracting support.
Support for lens and lamps used in connection with compasses and the like, Adjustable. E. W. Esdaile. 2,388,476; Nov. 6.
Switch: *See*—
Electric switch.
Switch construction. E. A. Link. 2,388,617; Nov. 6.
Switch construction. G. R. Runke. 2,388,620; Nov. 6.
Syringe unit, Hypodermic. E. Henderson. 2,388,323; Nov. 6.
Tape-dispensing machine. A. P. Krueger. 2,388,332; Nov. 6.
Telephone system. W. A. Malthaner. 2,388,488; Nov. 6.
Templet-following machine. L. W. Young. 2,388,376; Nov. 6.
Tester, Pendulum impact. A. J. Berger. 2,388,246; Nov. 6.
Thermal retarder switch unit. C. M. Osterheld. 2,388,564; Nov. 6.
Thermal treatment for aluminum base alloys. J. A. Nock, Jr., and T. W. Bossert. 2,388,563; Nov. 6.
Thimble, Hot gas outlet. R. C. Wright. 2,388,511; Nov. 6.
Toaster. J. W. Myers. 2,388,641; Nov. 6.
Tobacco pipe. R. H. Reinhold and G. W. Fossleck. 2,388,338; Nov. 6.
Tool: *See*—
Automatic pattern controlled machine tool. Machine tool.
Scribing tool.
Tool post hold-down, Shaper. F. Johnson. 2,388,547; Nov. 6.
Tool support. G. S. Boyd. 2,388,522; Nov. 6.
Torch. W. J. Jacobsson and L. W. Young. 2,388,327; Nov. 6.
Torque converter, Hydro-kinetic. M. Katcher. 2,388,418; Nov. 6.
Totalizing liquid level indicator. J. R. MacIntyre. 2,388,559; Nov. 6.
Towel rack. J. A. Peterson and J. E. Bruce. 2,388,663; Nov. 6.
Toy, Aerial. E. L. Zwickel. 2,388,513; Nov. 6.
Toy boat construction. W. L. Ripley. 2,388,340; Nov. 6.
Toy, Mechanical. G. M. Hess. 2,388,483; Nov. 6.
Toy tank. G. S. Lawrence. 2,388,638; Nov. 6.
Toy wagons and steering the same. M. S. Anderson. 2,388,629; Nov. 6.
Transducer, Piezoelectric. J. P. Arndt, Jr. 2,388,242; Nov. 6.
Transformer. C. H. Dunton. 2,388,473; Nov. 6.
Transmission cable. C. A. Arens. 2,388,241; Nov. 6.
Transmission control. S. O. White. 2,388,455; Nov. 6.
Transmission unit testing machine. J. Lund. 2,388,425; Nov. 6.
Transmitter, Impulse. F. A. Hubbard. 2,388,358; Nov. 6.
Transmitter, Telephone call. T. L. Dowey. 2,388,313; Nov. 6.
Trap stand. W. F. Hartman. 2,388,539; Nov. 6.
Treating tungstate solutions. B. Burwell. 2,388,306; Nov. 6.
Tripod. C. E. Simpson. 2,388,296; Nov. 6.
Truck, Fork-lift. J. R. Alfonte. 2,388,458; Nov. 6.
Truss. E. Hyatt. 2,388,360; Nov. 6.
Tube reducing mill. G. B. Coe. 2,388,251; Nov. 6.
Tuyère construction. D. E. Mackenzie and G. H. Wolfe. 2,388,275; Nov. 6.
Vacuum breaker. R. M. Nelson. 2,388,432; Nov. 6.
Valve: *See*—
Brake release valve. Fluid control valve.
Control valve. Multiport rotary valve.
Valve. F. Haberland. 2,388,406; Nov. 6.
Valve stitching apparatus. E. D. George and M. Lammertse. 2,388,652; Nov. 6.
Vat dyes, Textile printing with leuco ester salts of. R. Ratti and P. Brandt. 2,388,285; Nov. 6.
Vehicle: *See*—
Air propelled vehicle.
Vehicle body construction. E. Komenda. 2,388,419; Nov. 6.
Vehicle for children. P. M. Ressinger. 2,388,441; Nov. 6.
Vending machine. C. F. Pease. 2,388,497; Nov. 6.
Veneer strip, coils thereof, and preparing same. P. R. Goldman. 2,388,479; Nov. 6.
Vinyl esters in emulsion, Polymerization of. M. Kiar. 2,388,602; Nov. 6.
Vinyl esters, Polymerization of. H. M. Collins. 2,388,601; Nov. 6.
Vitreous coatings, Forming. F. O. Hess. 2,388,611; Nov. 6.
Volume and selectivity control device, Combined. A. D. Zappacosta. 2,388,590; Nov. 6.
Volume control, Tone compensated. D. E. Sunstein. 2,388,505; Nov. 6.
Wall flame type burner. R. M. Sherman. 2,388,502; Nov. 6.
Warping or beaming machine. F. Lambach. 2,388,269; Nov. 6.
Waxing and polishing machine, Surface. M. E. Lederman. 2,388,486; Nov. 6.
Welding, Method and apparatus for. G. S. Mikhalapov. 2,388,430; Nov. 6.
Well point. T. F. Moore. 2,388,640; Nov. 6.
Wheel hoe. R. M. Kraus. 2,388,553; Nov. 6.
Whistle. A. M. Osterholt. 2,388,495; Nov. 6.
Winder, Spring. L. R. Buczkoski. 2,388,383; Nov. 6.
Winding textile packages. R. Little and L. Jehu. 2,388,557; Nov. 6.
Windshield cleaner. E. V. Schaal. 2,388,500; Nov. 6.
Wire coiling apparatus. C. R. Bergevin. 2,388,630; Nov. 6.
Wrench. F. A. Snell. 2,388,580; Nov. 6.
Wrist protector. M. Jungmann. 2,388,330; Nov. 6.
Zein solutions directly from gluten, Preparation of. R. E. Coleman. 2,388,389; Nov. 6.
Zein solutions directly from gluten, Preparing. R. E. Coleman. 2,388,388; Nov. 6.

# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 6, 1945

**In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.**

NOTE.—First number—class, second number—subclass, third number—patent number

2— 14: 2,388,574
2,388,626
2,388,635
16: 2,388,330
20: 2,388,437
37: 2,388,525
42: 2,388,535
51: 2,388,234
211: 2,388,341
247: 2,388,516
4— 57: 2,388,480
8— 70: 2,388,285
10— 86: 2,388,467
123: 2,388,290
169: 2,388,405
12— 14: 2,388,367
33: 2,388,426
15— 14: 2,388,290
97: 2,388,486
128: 2,388,605
170: 2,388,356
184: 2,388,470
258.4: 2,388,500
18— 5: 2,388,401
48: 2,388,397
54: 2,388,325
19— 114: 2,388,631
20— 19: 2,388,654
92: 2,388,572
22— 196: 2,388,299
23— 51: 2,388,306
53: 2,388,496
85: 2,388,566
110: 2,388,302
200: 2,388,656
226: 2,388,259
288: 2,388,451
310: 2,388,504
24— 19: 2,388,371
73: 2,388,317
87: 2,388,427
170: 2,388,316
25— 118: 2,388,569
27— 22: 2,388,337
28— 39: 2,388,269
71.5: 2,388,591
29— 1.31: 2,388,370
62: 2,388,594
97.5: 2,388,522
155.57: 2,388,568
173: 2,388,537
30— 22: 2,388,615
41: 2,388,324
33— 27: 2,388,376
41: 2,388,361
75: 2,388,402
107: 2,388,252
137: 2,388,303
147: 2,388,582
35— 50: 2,388,352
36— 17: 2,388,333
38— 111: 2,388,492
40— 76: 2,388,646
125: 2,388,349
152: 2,388,431
152.1: 2,388,435
42— 3: 2,388,356
43— 96: 2,388,539
44— 73: 2,388,255
45— 6: 2,388,353
46— 43: 2,388,483
77: 2,388,513
46— 93: 2,388,340
179: 2,388,495
201: 2,388,629
219: 2,388,638
48— 203: 2,388,348
49— 54: 2,388,274
51— 68: 2,388,434
52— 2: 2,388,308
56— 27: 2,388,411
33: 2,388,454
59— 79: 2,388,554
60— 54: 2,388,329
2,388,418
2,388,571
97: 2,388,490
61— 39: 2,388,624
62— 2: Re.22,689
3: 2,388,556
108.5: 2,388,378
115: 2,388,314
64— 11: 2,388,450
66— 1: 2,388,648
156: 2,388,311
167: 2,388,649
69— 1: 2,388,384
23: 2,388,619
73— 12: 2,388,246
90: 2,388,256
313: 2,388,559
410: 2,388,542
432: 2,388,425
74— 10: 2,388,581
260: 2,388,455
501: 2,388,241
76— 107: 2,388,528
77— 4: 2,388,621
22: 2,388,362
64: 2,388,320
80— 12: 2,388,643
14: 2,388,251
22: 2,388,249
81— 84: 2,388,580
90: 2,388,414
82— 2: 2,388,355
25: 2,388,265
28: 2,388,612
42: 2,388,622
43: 2,388,521
83— 36: 2,388,343
84— 311: 2,388,550
2,388,551
85— 5: 2,388,603
9: 2,388,658
47: 2,388,482
86— 21: 2,388,309
27: 2,388,250
88—14.92: 2,388,518
24: 2,388,240
2,388,264
2,388,394
39: 2,388,476
89— 2: 2,388,443
28: 2,388,489
33: 2,388,291
34: 2,388,413
35: 2,388,453
41: 2,388,509
90— 13.5: 2,388,555
54: 2,388,547
92— 6: 2,388,592
40: 2,388,457
46: 2,388,627
92— 54: 2,388,549
93— 1: 2,388,433
56: 2,388,266
95— 64: 2,388,609
97— 212: 2,388,553
98— 2: 2,388,419
99— 68: 2,388,298
292: 2,388,335
329: 2,388,641
102— 16: 2,388,459
29: 2,388,310
38: 2,388,296
103— 162: 2,388,644
173: 2,388,462
178: 2,388,661
106— 56: 2,388,447
72: 2,388,446
114: 2,388,543
153: 2,388,388
2,388,389
170: 2,388,613
214: 2,388,526
222: 2,388,257
110— 45: 2,388,294
49: 2,388,511
112— 9: 2,388,465
46: 2,388,244
2,388,245
113— 53: 2,388,545
116: 2,388,375
121: 2,388,300
114— 240: 2,388,589
117— 64: 2,388,339
68: 2,388,494
125: 2,388,611
145: 2,388,326
121— 45: 2,388,369
122— 35: 2,388,512
41: 2,388,345
126: 2,388,647
123— 48: 2,388,452
73: 2,388,331
169: 2,388,472
179: 2,388,469
125— 30: 2,388,610
126— 58: 2,388,593
110: 2,388,364
263: 2,388,466
128— 76.5: 2,388,493
106: 2,388,360
143: 2,388,604
202: 2,388,533
215: 2,388,323
235: 2,388,321
272: 2,388,634
129— 16.5: 2,388,315
131— 225: 2,388,338
132— 40: 2,388,626
52: 2,388,381
75.6: 2,388,292
135— 51: 2,388,374
137— 18: 2,388,548
53: 2,388,406
69: 2,388,432
2,388,481
144— 309: Re.22,687
2,388,479
2,388,485
2,388,541
145— 33: 2,388,655
146— 102: 2,388,588
148— 21.1: 2,388,540
148— 21.1: 2,388,563
150— 38: 2,388,444
151— 19: 2,388,270
2,388,271
2,388,272
2,388,273
152— 352: 2,388,421
153— 65: 2,388,630
67: 2,388,363
154— 9: 2,388,652
27: 2,388,392
42: 2,388,297
155— 196: 2,388,552
158— 4: 2,388,502
26: 2,388,386
53: 2,388,254
160— 91: 2,388,404
161— 18: 2,388,387
164— 49: 2,388,332
124: 2,388,546
166— 4: 2,388,416
5: 2,388,640
167— 22: 2,388,614
24: 2,388,393
74: 2,388,417
78: 2,388,260
81: 2,388,261
170— 163: 2,388,276
167: 2,388,464
171— 119: 2,388,295
327: 2,388,242
2,388,566
172— 36: 2,388,498
279: 2,388,382
174— 121: 2,388,319
175— 320: 2,388,639
356: 2,388,473
361: 2,388,524
2,388,565
2,388,566
366: 2,388,532
177— 329: 2,388,448
2,388,449
352: 2,388,530
2,388,576
353: 2,388,531
380: 2,388,313
2,388,358
178— 44: 2,388,534
179— 1: 2,388,505
22: 2,388,488
43: 2,388,347
100.4: 2,388,578
180— 1: 2,388,307
183— 37: 2,388,279
184— 6: 2,388,523
102: 2,388,484
188— 18: 2,388,403
142: 2,388,336
165: 2,388,237
192— .01: 2,388,357
45.1: 2,388,424
67: 2,388,456
68: 2,388,491
101: 2,388,407
193— 35: 2,388,283
194— 15: 2,388,595
196— 8: 2,388,322
50: 2,388,536
112: 2,388,642
197— 74: 2,388,351
198— 8: 2,388,385
200— 50: 2,388,342
116: 2,388,617
2,388,620
140: 2,388,646
201— 48: 2,388,248
202— 42: 2,388,429
2,388,506
2,388,507
2,388,575
52: 2,388,328
142: 2,388,438
160: 2,388,312
174: 2,388,599
206— 4: 2,388,442
41: 2,388,519
207— 2: 2,388,558
209— 39: 2,388,471
210— 24: 2,388,235
42.5: 2,388,616
49: 2,388,636
211— 96: 2,388,366
170: 2,388,637
212— 11: 2,388,408
214— 84: 2,388,458
131: 2,388,436
145: 2,388,305
215— 40: 2,388,568
219— 4: 2,388,430
2,388,587
39: 2,388,564
220— 88: 2,388,395
222— 256: 2,388,391
228— 66: 2,388,415
229— 4.5: 2,388,277
17: 2,388,501
31: 2,388,243
35: 2,388,288
49: 2,388,267
230— 5: 2,388,350
106: 2,388,398
235— 61.7: 2,388,354
236— 45: 2,388,253
82: 2,388,457
242— 43: 2,388,557
157: 2,388,239
244— 17: 2,388,653
53: 2,388,247
102: 2,388,365
137: 2,388,380
151: 2,388,379
153: 2,388,478
248— 183: 2,388,296
192: 2,388,287
226: 2,388,585
278: 2,388,474
361: 2,388,650
250— 11: 2,388,262
2,388,263
14: 2,388,567
20: 2,388,544
2,388,590
33: 2,388,625
251— 76: 2,388,560
134: 2,388,327
252— 35: 2,388,400
40.5: 2,388,439
194: 2,388,390
368: 2,388,632
255— 61: Re.22,690
259— 96: 2,388,573
260— 4: 2,388,346
8: 2,388,600
260— 8: 2,388,602
22: 2,388,201
23: 2,388,618
24: 2,388,208
64: 2,388,410
73: 2,388,235
75: 2,388,318
78: 2,388,278
84.5: 2,388,372
2,388,373
2,388,477
2,388,514
2,388,515
87: 2,388,601
97.5: 2,388,412
132: 2,388,468
231: 2,388,597
290: 2,388,475
2,388,499
293: 2,388,236
346: 2,388,579
397.7: 2,388,529
401: 2,388,281
412.6: 2,388,284
486: 2,388,440
544: 2,388,657
2,388,660
576: 2,388,608
577: 2,388,606
2,388,607
615: 2,388,409
619: 2,388,583
2,388,594
668: 2,388,359
683.2: 2,388,510
683.4: 2,388,428
734: 2,388,656
771: 2,388,651
800: 2,388,562
261— 36: 2,388,344
116: 2,388,508
262— 8: 2,388,461
263— 8: 2,388,309
264— 17: 2,388,282
266— 41: 2,388,275
271— 2.5: 2,388,423
273— 35: 2,388,463
93: 2,388,577
277— 19: 2,388,268
280— 33.4: 2,388,308
60: 2,388,441
179: 2,388,304
285— 95: 2,388,633
290— 4: 2,388,527
55: 2,388,377
292— 6: 2,388,561
121: 2,388,490
294— 33: 2,388,623
297— 11: Re.22,688
299— 62: 2,388,258
2,388,517
84: 2,388,445
138: 2,388,334
303— 68: 2,388,538
304— 20: 2,388,420
308— 22: 2,388,503
187.1: 2,388,570
309— 4: 2,388,422
19: 2,388,363
33: 2,388,520
312— 97.1: 2,388,407
315— 6: 2,388,280

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | |
|---|---|---|---|---|---|
| 2,388,289: 315— 6 | 2,388,366: 211— 96 | 2,388,429: 202— 42 | 2,388,487: 92— 40 | 2,388,562: 260—800 | 2,388,605: 15—128 |
| 2,388,299: 22—196 | 2,388,401: 18— 5 | 2,388,439: 252—40.5 | 2,388,504: 23—310 | 2,388,568: 215— 40 | 2,388,608: 260—576 |
| 2,388,306: 23— 51 | 2,388,428: 260—683.4 | 2,388,482: 85— 47 | 2,388,556: 62— 3 | 2,388,598: 29—155.57 | 2,388,642: 196—112 |
| 2,388,314: 62—115 | | | | | |

## CLASSIFICATION OF DESIGNS

| | | | | | |
|---|---|---|---|---|---|
| D 3—10: Des. 142,781 | D14— 6: Des. 142,774 | D34— 5: Des. 142,770 | D44—10: Des. 142,798 | D58— 4: Des. 142,783 | D85— 8: Des. 142,797 |
| Des. 142,782 | 27: Des. 142,785 | Des. 142,790 | D48—24: Des. 142,709 | 8: Des. 142,778 | D86—10: Des. 142,767 |
| 11: Des. 142,806 | D15— 1: Des. 142,801 | Des. 142,791 | Des. 142,796 | Des. 142,795 | Des. 142,764 |
| 26: Des. 142,779 | Des. 142,802 | 15: Des. 142,762 | 27: Des. 142,784 | D64—10: Des. 142,788 | D89— 1: Des. 142,789 |
| Des. 142,804 | 8: Des. 142,800 | Des. 142,763 | D54— 1: Des. 142,792 | D74— 1: Des. 142,775 | D93— 4: Des. 142,772 |
| Des. 142,805 | D23— 1: Des. 142,766 | Des. 142,764 | 12: Des. 142,786 | D78— 1: Des. 142,771 | |
| D 7— 7: Des. 142,780 | D26— 1: Des. 142,777 | Des. 142,765 | D56— 1: Des. 142,799 | D80—11: Des. 142,773 | |
| D12— 2: Des. 142,793 | D31— 4: Des. 142,787 | Des. 142,803 | 4: Des. 142,768 | D85— 2: Des. 142,776 | |

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

FIRESTONE TIRE & RUBBER CO.

*v.*

MONTGOMERY WARD & CO., INC.

*No. 4,978. Decided May 24, 1945. Petition for rehearing denied July 2, 1945*

[150 F.(2d) 439; 66 USPQ 111]

1. TRADE-MARKS—CONFUSING SIMILARITY.

Appellant's mark, comprising the name "Firestone" and the words "Air Chief," displayed in association with two stars and the pictorial representation of a winged figure standing on a globe; and appellee's registered mark, consisting of the word "Airline" crossed by a zig-zag symbol indicative of a flash of lightning, and with a portion of the capital "A" extending in the form of a line under the other letters of the word, *Held* not to resemble each other sufficiently that confusion might be expected to result from their concurrent use on identical goods.

2. SAME—SAME—DISCRIMINATION IN PURCHASE OF GOODS.

*Held* that the matter of discrimination in purchase of the goods of the parties, radios and radio supplies, could have little if any bearing upon decision of the issue of confusing similarity between their marks; that "the goods of the parties are sold to the general public, which is comprised not only of critical buyers but also of those who buy without stopping to analyse;" and that it is "not only well known that the so-called indiscriminate public purchases cheap radios and numerous inexpensive parts and supplies, but also recognised that such purchases ordinarily neither require nor receive any extended or serious investigation."

3. SAME—SAME—"PRACTICALLY CONTROLLING" PRIOR DECISION.

"While it has been often said that rarely, if ever, are identical facts presented in different trade-mark registration cases, and while the rule of stare decisis is seldom applied in the decision of such cases, we think the facts in this case are so similar to the facts involved in *Montgomery Ward & Co., Inc.*, v. *Spiegel, Inc.*, 30 C. C. P. A. (Patents) 721, 132 F.(2d) 144, 56 USPQ 185, 547 O. G. 605, that that case should be regarded as practically controlling of decision of the issue here presented."

4. SAME—SAME.

"The sound, appearance, and meaning of the words 'Chief' and 'line' are wholly different—so different as to lead one away from any thought springing from the commonly used word 'Air'. The portions of Firestone's mark other than the dominant portion, 'Air Chief' and those of Montgomery Ward's mark other than 'Airline' are so wholly different in their appearance, suggestions, and meaning as to prompt the conclusion that when the marks as a whole are considered, there would be no likelihood of confusion."

5. SAME—SAME.

"It is true that over the radio and in advertising literature, the goods of the respective parties will be referred to as 'Air Chief' and 'Airline' radios, and many prospective customers would be unaware of certain features of the respective marks. It is our view, however, that notwithstanding this fact, the terms 'Air Chief' and 'Airline', considered alone, being the dominant portions of the two marks, are so vastly different in meaning, appearance, and sound as to insure against the probability of confusion."

APPEAL from the Patent Office. Reversed.

O'CONNELL, *J.*, dissenting.

*Messrs. Ely & Frye* (*Mr. Albert L. Ely, Mr. Bernard C. Frye*, and *Mr. Charles M. Thomas* of counsel) for Firestone Tire & Rubber Co.

*Mr. F. P. Keiper* (*Mr. Earle D. Crammond* of counsel) for Montgomery Ward & Co., Inc.

BLAND, *J.*:

From a decision of the Commissioner of Patents, 59 USPQ 27, speaking through the First Assistant Commissioner, affirming that of the Examiner of Interferences, which sustained appellee's notice of opposition to the registration of appellant's trade-mark and adjudged that the applicant (appellant) was not entitled to the registration applied for, appellant has here appealed.

The goods of appellant (hereinafter referred to as Firestone) and those of appellee (hereinafter referred to as Montgomery Ward) upon which their respective marks are used are, in each instance, radios and radio supplies. The mark which Firestone seeks to register is a composite mark comprising the words "Air Chief." Interposed between these two words is an illustration consisting of a winged figure designed with heroic impressiveness, standing on a globe. Above the head of the symbolic figure and parallel to its outstretched arms and wings is the word "Firestone." To the left of the word "Air" are two stars.

Montgomery Ward's registered mark, upon which it bases its opposition, consists of the word "Airline" beginning with a capital "A," a portion of which extends in the form of a line under the other letters of the word. Across the word is a zig-zag symbol indicative of a flash of lightning.

The record shows that Montgomery Ward's use of its mark on its goods in interstate commerce long antedated the use of the "Air Chief" mark of Firestone; that since the adoption of its mark in 1922, Montgomery Ward has distributed many millions of catalogues and has spent many millions of dollars in advertising its "Airline" radio goods; that its mark is registered in many foreign countries; and that it has an extensive business in foreign markets for its "Airline" goods.

The record also shows that Firestone does a large business and that it is selling and advertising its "Air Chief" radio goods in the same market, at least in part, as that of Montgomery Ward.

In order that the precise issues presented may be fully understood, it is deemed advisable to reproduce here the two marks as they appear in the record.

FIRESTONE'S MARK




MONTGOMERY WARD'S MARK

Airline

[1] The tribunals below concurred in holding that the marks in their entirety sufficiently resemble each other that confusion might be expected to result from their concurrent use on identical goods. Upon this basis the opposition was sustained and the registration denied.

We are in disagreement with the holding of the tribunals below. While it is a rule too well settled to require citation of authority that in determining the likelihood of confusion between similar marks, used upon similar or identical goods, it is necessary to consider the marks in their entirety, it is equally well established that in determining this question it is proper to analyze the different features of the marks and consider their appearance, sound, and meaning.

It is obvious that the word "Air" in both marks might be regarded as having some suggestion relating to radio waves which pass through the air, and to that extent the marks are identical. Otherwise, however, they are almost wholly different. The word "Air" is said by Firestone to be descriptive, and Montgomery Ward contends that it is the dominant portion of the marks. Montgomery Ward states that while the prefix "air" in the two marks may suggest radios, it likewise suggests aviation; and that the suffixes of the marks suggest related activities, such as "Airlines and officials thereof," and therefore do not dispel the likelihood of confusion when the marks are concurrently used upon radios and radio equipment.

[2] Firestone urges as a consideration of importance in the decision of the instant issue that the goods of the respective parties—radios and radio supplies—are of that class of merchandise "which is purchased only after careful observation after trial as to tone and selectivity, and in many instances after comparison with competitive radios." It is our view that this matter, while a consideration which often has persuasive influence, can have little if any bearing upon the decision of the present issue. It is not only well known that the so-called indiscriminate public purchases cheap radios and numerous inexpensive parts and supplies, but also recognized that such purchases ordinarily neither require nor receive any extended or serious investigation. It is true that no doubt some of the goods sold by the parties under their respective marks are purchased by discriminating purchasers, and in such instances there is never as much likelihood of confusion because the discriminating purchaser would ordinarily know what make of radio he wanted and other facts and circumstances concerning it, in which the casual purchaser would not be interested. However, it must be remembered that the goods of the parties are sold to the general public, which is comprised not only of critical buyers but also of those who buy without stopping to analyze. See *Schering & Glatz, Inc.*, v. *Sharp & Dohme, Inc.*, 32 C. C. P. A. (Patents) —, 146 F.(2d) 1019, 65 USPQ 394, 572 O. G. 542.

[3] While it has been often said that rarely, if ever, are identical facts presented in different trade-mark registration cases, and while the rule of stare decisis is seldom applied in the decision of such cases, we think the facts in this case are so similar to the facts involved in *Montgomery Ward & Co., Inc.*, v. *Spiegel, Inc.*, 30 C. C. P. A. (Patents) 721, 132 F.(2d) 144, 56 USPQ 185, 547 O. G. 605, that that case should be regarded as practically controlling of decision of the issue here presented. In that case Spiegel, Inc., applied for the registration of the words "Air Castle" superimposed on a representation of a medieval castle, the words appearing on a ribbon-like scroll. The opposer there, Montgomery Ward & Company, opposed upon the basis of its registered mark "Airline," which is the same registration that forms the basis of its opposition in the instant case. This court there held that the term "Airline," according to Webster's New International Dictionary (1932) meant "A straight line, as through the air; a bee line," and that the term "Air Castle," according to Spiegel's contentions, which we did not disapprove, suggested a "sort of a dreamy idea" that one could "get enthused over," such as the idea that "a man's home is his castle." We held, in substance, that "Air Castle" was different in meaning, sound, and appearance from the word "Airline" and that unless Montgomery Ward was to be given a monopoly of the use of the word "Air," it was proper to permit registration of the "Air Castle" mark since there was no likelihood of confusion.

If we were correct in our holding in that case, we are certain that the Commissioner fell into error in holding in the instant case that there was a likelihood of confusion from the concurrent use of the marks "Air Chief" and "Airline."

In the 1939 edition of Webster's New International Dictionary, an additional definition has been given for the word "Airline" over and above that shown in the 1932 edition. It is as follows:

> • • • A. A system of transportation by aircraft, or the equipment with which the system operates. B. The company or business organization owning or operating such a system. C. The route covered.

It was largely this latter state of facts that prompted Montgomery Ward to argue that there is likelihood of confusion, and that was largely the basis of the holding of the tribunals below. It is shown in the record that in its transactions relating to its Airline radios, Montgomery Ward frequently resorts to the use of airline transportation; and it is argued that by reason of this fact there is a probability of confusion.



The term "Air Chief" has no suggestion of a bee line, and certainly if it suggests anything relative to a radio it would be very indefinite and might suggest many other things. The outstretched wings of the heroic figure standing on the globe, said to represent Mercury, would at most only remotely, if at all, suggest matters relating to radios; whereas the term "Airline" suggests a straight line in the air—more precisely it points toward the transmission of radio waves through the air.

[4] Viewing the marks as a whole and considering the word "Air," in both marks, we must conclude, as we did in the Spiegel case, supra, where the terms "Air Castle" and "Airline" were involved, that there would be no likelihood of confusion resulting from the concurrent use of the marks on radios and radio equipment. The sound, appearance, and meaning of the words "Chief" and "line" are wholly different—so different as to lead one away from any thought springing from the commonly used word "Air." The portions of Firestone's mark other than the dominant portion, "Air Chief" and those of Montgomery Ward's mark other than "Airline" are so wholly different in their appearance, suggestions, and meaning as to prompt the conclusion that when the marks as a whole are considered, there would be no likelihood of confusion.

[5] It is true that over the radio and in advertising literature, the goods of the respective parties will be referred to as "Air Chief" and "Airline" radios, and many prospective customers would be unaware of certain features of the respective marks. It is our view, however, that notwithstanding this fact, the terms "Air Chief" and "Airline," considered alone, being the dominant portions of the two marks, are so vastly different in meaning, appearance, and sound as to insure against the probability of confusion.

It is proper to say here that it is not seen how Firestone could have used the term "Air" at all in a trade-mark more effectively to avoid the probability of confusion than by the use of the term "Chief" and the other portions of its composite mark. It is our view, therefore, that the Commissioner arrived at the wrong conclusion. He should have dismissed the opposition and directed that the mark be registered. His decision is accordingly reversed.

Reversed.

---

O'CONNELL, J., (dissenting):

If appearance were the only factor to be taken into consideration in comparing the marks of competing vendors, then one glance at the graphic illustration reproduced in the prevailing opinion would be sufficient to settle this case. However, it is true, as stated in the opinion of the Examiner of Trade-Mark Interferences, "Of the several factors of appearance, sound and meaning which must be taken into account in comparing the marks, it is believed that here, as is frequently the case, appearance is of the least relative importance. Purchasers more often than not remember and call for a desired brand of goods under a convenient unitary literal symbol present in the mark under which they are sold and without regard to pictorial or other merely subordinate matter with which it may be associated upon the goods or labels therefor. Two such symbols are present in the mark used by the applicant, namely, the separately displayed words 'Firestone' and 'Air Chief.' Each of these is without more capable of identifying the goods as to source, and it is believed that whereas purchasers thereof would sometimes order applicant's products under the word 'Firestone' alone, they in many instances would similarly rely wholly upon 'Air Chief' for this purpose. If that is so, then the presence of 'Firestone,' the distinguishing feature of the applicant's corporate name, as a separable feature of its composite mark would not justify any different conclusion upon the statutory question under consideration than if such feature were omitted from the mark." Citing, *Menendez* v. *Holt*, 128 U. S. 514, 46 O. G. 971.

Moreover, the record discloses that the wording "Firestone Air Chief" is sometimes used by Firestone on its goods without the graphic symbol, and that the term "Air Chief" has been used also by it without either the word "Firestone" or the graphic symbol. Another factor to be considered in respect to appearance is that the merchandise of the parties, both engaged in the mail order business, is sold through the medium of a catalogue. Under such circumstances, customers may not be afforded an opportunity of comparing either the involved marks or the merchandise.

Firestone's mark in its reproduction in the prevailing opinion includes the words "Air Chief," produced in a block style of type, with the initial letter "A" outlined in the form of an inverted capital "U". The two words are separated by the ankles of the winged figure, poised and equipped for flight, at, or near, the top of the globe. This globe, it may be noted, bears a suggestive outline of the geography of North and South America, the Gulf of Mexico, the Isthmus of Panama, and other parts of the world.

Above the head of the winged figure, and parallel to its outstretched arms and wings, the name "Firestone" is horizontally printed in bold face type, with a capital "F." Two five point stars are placed opposite the word "Air." As produced, the word "Firestone" might be easily overlooked by the casual observer; not only because of the comparative dimensions of the word, but also because of the dominant and attractive features with which the symbolic figure has been endowed.

Montgomery Ward's trade-mark, "Airline" is produced as one word. with a capital "A" and under scored lower case letters. A zigzag arrow is impressed diagonally therethrough, suggestive of a flash of lightning. From the evidence, it appears that the mark more often comprises the use of a

block style of type, and frequently the letter "A" is employed in the outline of an inverted capital "U". Thus, it will be noted, that the words, "Airline" and "Air Chief," the unitary literal symbols of the competing marks comprise but two syllables; one being seven letters in length, the other eight. The visual appearance of the first syllable of each is identical, and, when produced in a block style of type, the second syllable of each has an unusual degree of visual similarity.

Relative to sound, in pronunciation Firestone's two words "Air" and "Chief" are neither segregated nor separately spoken. They are spoken as a single word, with the accent on the word "Air," the same as in Montgomery Ward's word "Airline." Under the law, similarity of sound is of itself sufficient to constitute confusing similarity when the marks are applied, as here, to merchandise of the same descriptive properties.

The evidence discloses that Montgomery Ward advertises its goods through the medium of radio broadcasting, which involves the exercise only of sound and hearing. It is common experience, in listening to the radio, to hear an announcer urge the radio audience to purchase a sponsor's goods, and to use the respective methods of communication in placing the order, including the use of the telephone. Under such conditions, appearance of the marks does not even enter into the transaction; while on the other hand, the spoken word, the sound of the mark, is the only criterion employed in effecting a sale and delivery of the merchandise.

In analyzing the meaning of the marks, it will be found that this court passed upon the features of Montgomery Ward's mark in the case of *Montgomery Ward & Co.* v. *Spiegel*, 30 C. C. P. A. (Patents) 721, 132 F.(2d) 144, 56 USPQ 185, 547 O. G. 605. In that case, the word "Airline" was held to be descriptive of "A straight line, as through the air; a bee line." That definition still resides in the dictionary and is still in use to describe the shortest distance between two points, such as, "The drive carried the American lines 44 airline miles into Luzon."

However, new entries are continually being made in the dictionary to record words that have been coined or applied with new meaning by the public to meet the needs of contemporary developments. This is true particularly in the field of air and radio, as will be noted by a comparison of current and prior editions of various dictionaries. Therefore, as pointed out in the opinion of the Commissioner of Patents in the instant case, the popular primary use and meaning of the word "Airline," at this time, is such as is defined in Webster's New International Dictionary, Second Edition, 1939:

> Air Line. 2. Aeronautics. A. A system of transportation by aircraft, or the equipment with which the system operates. B. The company or business organization owning or operating such a system. C. The route covered.

In applying the foregoing definition to the involved issues and in discussing the decision of this court in *Montgomery Ward & Co.* v. *Spiegel*, supra, the Commissioner of Patents correctly stated:

> Only one definition of "air line" appears in the opinion, namely, "a straight line, as through the air; a beeline." This definition was quoted from Webster's New International Dictionary, which also defines the term as "a system of transportation by aircraft, or the equipment with which the system operates."
>
> While its association with the particular merchandise involved would doubtless suggest other meanings of opposer's mark, I am clearly of the opinion that this latter definition is the one that would immediately occur to the minds of most Americans upon seeing or hearing the words "air line." The reason is that recent world events in which air transportation has played so important and so dramatic a part, have made the public alertly conscious of current developments and accomplishments in connection with aircraft, and its increasingly improved adaptability to the requirements of global warfare.
>
> And by the same token, I think the words "Air Chief" are likely to bear a very similar connotation. In the same issue of a local newspaper, for example, I find references to the "Chief" of the United States Army Air Forces, the "Chief" of the Imperial Air Force and the "Chief" of the Mediterranean Air Command. Scarcely a day passes that does not bring stories concerning the exploits of these officers, and others similarly engaged; and presumably such stories are read by everyone who is interested in the thrilling progress of our war in the air. To a substantial majority of these readers it seems to me that the words "Air Chief" would inevitably suggest some such individual, or at least would connote supremacy in relation to the operation of aircraft.

Moreover, the term "chief," like the terms "blue ribbon," "gold medal," "master," and "guide," may be considered also as merely self-laudatory and descriptive of the Firestone merchandise; and if the term "Chief" as used here is not suggestive of communication by air, then it belongs to that class of weak words to which the courts attribute but little trade-mark significance.

The definition of the word "Airline" adopted by this court describes not a device, but a process of computing the distance between two points by means of an imaginary concept, such as a bee line. Because of the widespread current usage of the word "Airline," however, the average person of today would be very apt to think of aircraft, instead of a bee, in visualizing the airline distance between two points.

It is difficult to understand how this court holds that the case of *Montgomery Ward & Co.* v. *Spiegel*, supra, is controlling in the instant case. By its action in so doing, however, the court in effect finds that the word "Air" is descriptive of radio and radio supplies, and the word "Airline" is not descriptive of matters relating to transportation by air, but is descriptive of the shortest distance between two points, as a straight line; a bee line.

The word radio as defined in Webster's New International Dictionary, 1939, reads as follows and makes no reference to the word air:

> radio a. The transmission and reception of signals by means of electric waves without a connecting wire; the use of radiotelegraphy or radiotelephony for conveying messages.

Really what the court has done in the instant case is to dissect the marks, the word "air" being held to be descriptive, and therefore not entitled to the monopoly that registration implies; and "The sound, appearance, and meaning of the words 'Chief' and 'line' are [held to be] wholly different—so different as to lead one away from any thought springing from the commonly used word 'air'."

An examination of the record in this case makes it impossible for me to escape the conclusion that Firestone, in the adoption of its mark, intended to give it no meaning other than the suggestion of communication and transportation by air; the same suggestion as is conveyed by Montgomery Ward's mark "Airline." That intent is disclosed by Firestone's use of the word "Air Chief," and by its act in superimposing an "Air Chief," poised and equipped for flight, from the top of the world.

Furthermore, the "Air Chief" employed in Firestone's mark with two five-point stars, is suggestive of planets, such as Mercury; and Firestone's winged figure is practically identical in design to the well-known design of the ancient god of commerce described in Webster's Handbook Collegiate Dictionary, 1944, as "Mercury. 2. A carrier of tidings; a messenger; a guide."

Facts pertinent to the issues involved in this case have been agreed to by stipulation between the parties, and establish that *the trade-mark "Airline" is now the property of the appellee and that the mark is, in all respects, valid and subsisting; that since its adoption in 1922*, appellee has produced and distributed to date at least 245,997,888 general catalogues, at a cost of more than $177,000,000, in which products in the class here involved were advertised under the name "Airline" and that the cost of advertising in its general catalogues alone of items in the class covered by appellant's attempted registration sold by Montgomery Ward under the trade-mark "Airline" has been more than $2,000,000, in addition to advertising in its retail stores, *advertising by radio* and advertising by special catalogues and "flyers"; that appellee has sold, from the year 1926 to date, more than 3,000,000 radio receiving sets through its combined retail and mail order establishments, exclusive of other radio and sound equipment sold under the trade-mark "Airline"; that the aggregate value of the sales, of radio and items similarly classified under the trade-mark "Airline" from the Fall & Winter 1926–1927 catalogue to date, is more than $17,600,000; that the trade-mark "Airline" is registered not only in the United States, but also in Argentina, Belgium, Brazil, Chile, Cuba, Finland, France, Mexico, New Zealand, Palestine, Portugal, Spain, Turkey, Union of South Africa, Uruguay, Greece, Syria, and Lebanon. [Italics mine.]

In *Kroger Grocery & Baking Company* v. *Blue Earth Canning Company*, 24 C. C. P. A. (Patents) 1098, 88 F.(2d) 725, 33 USPQ 137, 484 O. G. 745, this court said:

> We have little sympathy with those who adopt marks having a close resemblance to the trade-marks of others with which they are familiar, used upon goods of the same descriptive properties, even though they be of the opinion that they are not confusingly similar. One who adopts a valid mark and establishes a large business in which the mark is used should have all doubts resolved in his favor as against newcomers in an opposition proceeding.

In my opinion, the words "Airline" and "Air Chief" as employed in the respective marks, considered in their entirety, so nearly resemble each other in sound, appearance, and meaning as to be likely to cause confusion and mistake in the mind of the public when used concurrently by the two parties upon identical goods; and that Montgomery Ward will not only be damaged as a result of the registration of the Firestone mark, but also that Firestone will be thereby unjustly and handsomely enriched at the expense of its competitor.

For the reasons stated, the decision of the Commissioner of Patents should be affirmed.



## U. S. Court of Customs and Patent Appeals

IN RE WEBER

*No. 4,996. Decided May 24, 1945.*

(149 F.(2d) 937; 66 USPQ 44)

PATENTABILITY—MEDICINAL TABLET.

A claim to a compressed medicinal tablet and a claim to a process of producing the same *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Messrs. Bailey, Stephens & Huettig* (*Mr. Robert C. Watson* and *Mr. Francis G. Cole* of counsel) for Weber.

*Mr. W. W. Cochran* for the Commissioner of Patents.

BLAND, *J.*:

The Primary Examiner of the United States Patent Office rejected all of appellant's claims in his application for a patent relating to a compressed medicinal tablet and the process of producing the same. The tablet contains as an essential medicinal ingredient "an oily active material". Upon appeal to the Board of Appeals, the Examiner's action was affirmed, and from the decision of the Board appellant comes here petitioning that his appeal may be determined and that the decision of the Board be revised and reversed as to claims 6 and 7 (the only claims involved), which read as follows:

> 6. A process for producing compressed medicinal tablets containing, as an essential medicinal ingredient, an oily active material, which includes the steps of mixing the oily material with silicic acid and a binding agent, and compressing the mixture into tablet form, the amount of silicic acid employed being sufficient to prevent the expression of the oily material during the compressing step.
>
> 7. A compressed medicinal tablet containing, as an essential medicinal ingredient, an oily active material, and containing in admixture therewith silicic acid and a binding agent.

Appellant's process involves using a binding agent for dry, powdered, dehydrated silica gel or silicic acid, saturating the same with the oily constituent, such as cod liver oil, and compressing the mixture into tablets.

Appellant states that, prior to his alleged discovery, tablets containing materials of an oily nature have been very unsatisfactory in so far as the compressing of the tablets expels the oil, making the tablet speckled and crumbly. He also states that since the oil under pressure would frequently leave the tablet to some extent, it was difficult to secure the exact quantity of desirable oily constituent within the tablet. His method is explained by an example which he recites in the application:

> *Example 1*
>
> 3 parts by weight of acetyl-dl-α-tocopherol, a light yellow oil boiling at 224° C. at a pressure of 0.2 mm., are triturated with 15 parts by weight of silicic acid and then mixed with 87 parts by weight of arrowroot and 15 parts by weight of lactose. This tablet powder is passed through a fine sieve, again mixed and thereupon pressed into tablets having a weight of 70 mg.

The Examiner rejected the appealed claims as lacking invention by reason of the disclosures in the following patent references: Wiggins, 2,038,694, April 28, 1936; Fendler (German), 229,141, December 1, 1910; Marcus (German), 323,908, August 10,

1920; Ring (British), 254,726, July 28, 1927; Bachmann (British), 267,907, 1927.

The tribunals below pointed out that the citations fell into two distinct groups. The first group consists of Wiggins and the two German patents to Fendler and to Marcus. The German patents disclose substantially the same subject-matter as Wiggins, and Wiggins was relied upon by the Examiner and the Board as disclosing the high adsorptive properties of silicic acid or silica gel and its properties as a carrier of oil for medicinal purposes. It is therefore unnecessary to discuss, in detail, the German references.

The British references, Ring and Bachmann, comprise the second group and disclose that silicic acid retains its adsorptive capacity under high pressure, such as is involved in molding it into shaped forms.

In the first group of references, the patentees mix the oil and other materials to form a dry powder. The silicic acid or silica gel adsorbs the desired oil, and medicinal dosages may be dispensed without any oily appearance.

Appellant's problem was to compress a powdery substance containing oil into a tablet. The Ring and Bachmann references clearly disclose that silicic acid can be pressed into desired shape, and that it still retains its adsorptive capacity. Ring states that high pressure does not reduce the absorptive power of the silicic acid. The following is found in the Ring specification:

> • • • It is a surprising fact the absorptive power of the moulded bodies, calculated per weight of silica, is even after pressing equal to that of the silica in its highly voluminous state. Care must be taken that when the compression takes place there is present at least the so-called hygroscopic proportion of water, that is to say such amount of water as the activated gel can take from saturated steam and compress within itself. • • • If the process is conducted in this way even high pressure in no way reduces the absorptive power of the gel. • • • • • • The presence of the hygroscopic water content when the silica is compressed results in preserving a high absorptive capacity.

Bachmann, on this phase of the case, has the following to say:

> • • • Contrary to what might be expected, it is found that the silicic acid produced according to my process may be moulded by application of pressure without difficulty. • • •
>
> The moulded silicic acid has the same adsorption capacity as it has when loose, and retains the same when dry.

It was the holding of the Examiner and that of the Board that in view of these disclosures, there was no invention involved in taking a well-known substance, whose properties were well-understood, and compressing it into tablet form. In addition to holding that it was not inventive to compress the oil-saturated silica gel or silicic acid of Wiggins, Fendler, or Marcus into tablet form in view of the British patent disclosures, the Board also stated that regardless of the disclosures of Ring and Bachmann, it was considered not inventive merely to mold a tablet from oil-saturated silica gel or silicic acid, if it was desirable to have the material in tablet form rather than in powder form.

Appellant has stressed the fact that oil-containing tablets prior to his alleged invention were unsatisfactory and that in the art it was not thought that a powder containing oil could be compressed without the undesirable results hereinbefore pointed out. He also has called attention to the fact that in the Ring and Bachmann references, the necessary presence of water was stressed, which disclosure, together with the other facts disclosed in those references, he argues, would fail to lead anyone to believe that oil-saturated silica gel could be compressed "without danger of expressing the oil".

We have considered all appellant's arguments and carefully studied the references, but we find ourselves in the same position as were the tribunals of the Patent Office. So far as the record discloses, appellant may have greatly improved the art of making tablets of the kind described, but we conclude that the inventive faculty was not involved in what appellant has done.

The decision of the Board of Appeals is affirmed. Affirmed.

## U. S. Court of Customs and Patent Appeals

SHOLL DENTAL LABORATORY COMPANY

*v.*

MCKESSON & ROBBINS, INCORPORATED

*No. 5,024. Decided June 22, 1945*

[150 F.(2d) 718; 66 USPQ 223]

1. TRADE-MARKS—CONFUSING SIMILARITY.

   Upon consideration of the opposition to the application for registration of the notation "Calle" as a trade-mark for dentures, based upon opposer's ownership of the registered trade-mark "Calox" for tooth powder, *Held* that "the respective fields are distinct;" and that "at any rate, there is such a distinct difference between the goods and between the marks taken as a whole, that we are unable reasonably to anticipate likelihood of confusion in origin or in trade which might deceive purchasers."

2. SAME—SAME.

   "So far as the record shows, both the marks are coined terms which have no dictionary definitions, and are devoid of any suggestiveness. It is probable that appellee's dentrifice product is generally known and called for as 'Calox' just as certain camera outfits are known and called for as 'kodaks.' Also, it is a fair assumption that dentists order appellant's product as 'Calle,' or 'Calle dentures.' Both words are entireties. There is no separation of them into syllables and there is nothing to indicate that any portion of either mark constitutes a dominant feature of the whole."

3. SAME—GOODS OF THE SAME DESCRIPTIVE PROPERTIES—CONJOINT USE.

   *Held* that while not controlling, conjoint use is a fact proper to be considered along with other facts present in particular cases in determining whether goods are of the same descriptive properties.

4. SAME—SAME—SAME.

   "In the instant case the products of the respective parties (dentures and tooth powder) are not sold through common channels. That they may be used together—that is, that the tooth powder may be used on the dentures—is possible but that, in our opinion, does not render them goods of the same descriptive properties."

APPEAL from the Patent Office. Reversed.

BLAND, *J.*, and O'CONNELL, *J.*, dissenting.

*Mr. E. V. Hardway* (*Mr. Percy H. Moore* of counsel) for Sholl Dental Laboratory Company.

*Mr. Samuel Herrick* for McKesson & Robbins, Incorporated.

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents, 60 USPQ 379 (speaking through an Assistant Commissioner), reversing the decision of the Examiner of Trade-Mark Interferences and sustaining the opposition of appellee to the application of appellant for the registration of the notation "Calle" as a trade-mark for dentures of its (appellant's) manufacture.



Appellant's application was filed in the Patent Office June 15, 1942, use of the mark being alleged "since the 1st day of January, A. D. 1939."

The opposition is based upon appellant's ownership of a mark consisting of the word "Calox," used on tooth powder, which was registered in the Patent Office (Certificate No. 42,921), June 28, 1904, the registration being renewed in 1934.

No testimony was taken in the case, but in lieu thereof a joint stipulation was submitted, the purport of which is, that appellant (applicant) is a corporation organized in 1924 under the laws of the State of Texas, having a place of business at Houston, Texas; that since its organization it has been engaged in the manufacture of dentures, or artificial teeth, which it has been supplying "to dentists only and not to individual users or the public generally"; that since January 1, 1939, it has been selling the goods under the trade-mark "Calle" which is affixed to the goods "only by printing the trade-mark on the containers or packages in which the goods are sold," and that appellee (opposer) "has, for many years prior to 1939 been engaged in making and selling tooth powder and tooth paste, under the trade-mark 'Calox,' both to the general public and to dentists, and in interstate commerce, and has expended millions of dollars in advertising said product throughout the United States."

As stated in the decision of the Examiner of Trade-Mark Interferences:

> The allegations contained in the notice of opposition relate to only the confusion in trade clause of section 5 [of the Trade-Mark Registration Act of February 20, 1905, as amended] as a statutory ground for negativing the right of registration (section 7) claimed by the applicant.

It was the view of the Examiner that although the products of the respective parties might be used conjointly, "that is, that opposer's tooth powder or tooth paste might be used to clean applicant's dentures," nevertheless "the fact of conjoint use is not controlling in the question of the descriptive properties of the goods," our decision in the case of *Kraft-Phenix Cheese Corp.* v. *Consolidated Beverages Limited*, 27 C. C. P. A. (Patents) 803, 107 F.(2d) 1004, 44 USPQ 41, 514 O. G. 827, being cited. He then continued:

> They [the goods] possess greatly dissimilar properties, are sold through widely different trade channels and are used for different purposes. Under these circumstances the Examiner is persuaded that purchasers thereof would not reasonably assume that they had a common source of personal origin. The goods are therefore deemed to be of different descriptive properties.

In view of his conclusion that the goods were of different descriptive properties, he held it unnecessary to consider the similarities of the marks but pointed out that they "have certain differences in their endings," and expressed the opinion that even were the goods held to be broadly of the same descriptive properties, "nevertheless, the cumulative differences of the marks and the goods are such as to obviate any likelihood of confusion in trade."

The Assistant Commissioner was of opinion that the goods "are goods of the same descriptive properties in the statutory sense, being dental goods, the tooth powder and tooth paste being closely related to the dentures as cleaners therefor," and surmised that manufacturers of dentures "might be expected to also put out tooth powder and tooth paste either specially suited to the particular material of which the dentures are made or for teeth generally."

He further said:

> I do not think persons making a side-by-side comparison of the mark "Calox" as applied to tooth paste or tooth powder and the mark "Calle" as applied to a denture would be likely to be deceived. However the question is not so restricted. Consideration should also be given to whether persons of ordinary intelligence and prudence, acting merely on their memory of one or of both of the marks, and not making a side-by-side comparison of the marks as they are applied to the goods, would not be likely to mistake one mark for the other and thus be confused as to the origin of the goods.
>
> It is stipulated that applicant's dentures are sold only to dentists and the mark "Calle" appears only on the cartons or packages. Thus it appears that after a patient has been fitted with a "Calle" denture and informed of the trade-mark thereof the patient would have to rely merely on memory as to what the trade-mark of the denture was. It seems that such persons thereafter seeing the mark "Calox" applied to tooth paste or tooth powder would be likely, due to the similarity in sound between the marks "Calox" and "Calle," to be confused into thinking that "Calox" was the trade-mark which was applied to the dentures, as they remembered the mark, and in consequence be misled into believing the dentures and the tooth paste or tooth powder emanated from the same source. At least there is sufficient doubt in my mind that such confusion is not likely that resolving such doubts against the newcomer in the field, who is the applicant here, the marks when applied to the respective goods should be held to be confusingly similar and the notice of opposition sustained.

[1][2] It seems to us that certain of the surmises of the Assistant Commissioner are somewhat remote from the facts shown by the stipulation actually to exist. There is nothing in the record which indicates that the applicant (appellant) manufactures and sells or contemplates the manufacture and sale of tooth powder or tooth paste, or that opposer (appellee) makes and markets, or contemplates making and marketing, dentures. The manufacture of dentures, or false teeth, is obviously a highly specialized art, and it may well be doubted whether the eventual user of dentures, except, perhaps, in rare cases where one has a curiosity which leads to inquiry, ever thinks of the manufacturer beyond the dentist who fits them to his mouth, or ever learns of any trade-mark applied to them. There is, at least, no showing in the record upon this point.

So far as the record shows, both the marks are coined terms which have no dictionary definitions, and are devoid of any suggestiveness. It is probable that appellee's dentifrice product is generally known and called for as "Calox" just as certain camera outfits are known and called for as "kodaks." Also, it is a fair assumption that dentists order appellant's product as "Calle," or "Calle dentures." Both words are entireties. There is no separation of them into syllables and there is nothing to indicate that any portion of either mark constitutes a dominant feature of the whole.

We, therefore, are unable to agree with the Assistant Commissioner's conclusion that there is at least sufficient doubt to require application of the rule relative to a newcomer in the field. As we view it,

the respective fields are distinct. At any rate, there is such a distinct difference between the goods and between the marks taken as a whole, that we are unable reasonably to anticipate likelihood of confusion in origin or in trade which might deceive purchasers.

Before us, appellee, although citing several cases, has relied principally, or at least has principally emphasized our decision in the case of *The Bon Ami Company* v. *McKesson & Robbins, Inc.*, 25 C. C. P. A. (Patents) 826, 93 F.(2d) 915, 36 USPQ 260, 490 O. G. 729, in which case appellee here was the losing party.

The controversy in that case (in the decision of which many authorities were cited) related to a conflict between the notation "BON AMI" when applied to soap in cake and powder form and the notation "Shave-ami" which appellee here (also appellee there) sought to register as a trade-mark for shaving cream.

In that case we entertained no doubt as to the goods being, in fact, of the same descriptive properties, and it was our view that the presence of "Ami," a foreign word having the well-known meaning of "friend," as a distinctive unit in both marks would likely lead to confusion. It is perfectly clear to us that the facts of the instant case are so different from the facts in that case that there is practically no analogy between them upon the critical or fundamental question here determined. In general the same is true of the other cases cited by appellee. The Assistant Commissioner cited no authorities in his decision.

[3] We have quoted above the statement in the Examiner's decision reading, "the fact of conjoint use is not controlling in the question of the descriptive properties of the goods," and we deem it proper to say that, while not controlling, conjoint use is a fact proper to be considered along with other facts present in particular cases. Our decision in the Kraft-Phenix Cheese Corp. case, supra, cited by the Examiner, went no further than to hold that, under all the facts appearing in that case, we failed to find "any likelihood of confusion as to origin or that purchasers would be deceived, although the products may be sold through common channels or used together." As a matter of fact, the products involved in that case (cheese and popcorn) were used together and were sold through common channels.

[4] In the instant case the products of the respective parties (dentures and tooth powder) are not sold through common channels. That they may be used together—that is, that the tooth powder may be used on the dentures—is possible but that, in our opinion, does not render them goods of the same descriptive properties.

It is our view that upon the record here presented the Examiner's action in dismissing the notice of opposition was correct, and, therefore, the decision of the Commissioner is reversed.

Reversed.

---

BLAND, *J.*, and O'CONNELL, *J.*, dissent.

## Register of Patents Available for Licensing or Sale

Pat. 2,206,053. GROWTH EXTERMINATOR. Patented July 2, 1940. Weed killer with hollow handle having automatic cutting blade attached thereto and spring pressed valve in bore. Stems are cut by pressing blade into ground and poison carried in handle is sprayed on roots. (Owner) August M. Schroeder, 110 W. Lincoln, Peotone, Ill. Groups 33—52; 35—43—59. Reg. No. 522.

Pat. 2,184,121. ART WORK. Patented Dec. 19, 1939. Method and apparatus which provides a shaped frame and raised portions in color prints to achieve special effects. Stack of sheets, printed or colored as desired and impregnated with a light colored resinous substance are put into hydraulic press with an impressing surface and result, after heat has been applied, in a transincent art work $\frac{1}{8}$ inch thick. Provides low cost wall hanging or advertising media which may be illuminated from back. Several modifications are given. (Owner) Henry Henriksen, 904 Hodgson Building, Minneapolis, Minn. Groups 26—27—39—99; 35—54; 39—93. Reg. No. 523.

Pat. 2,162,907. FOUNTAIN BRUSH. Patented June 20, 1939. Flexible brush head fits hollow handle containing storage cylinder provided with piston for extruding cream or soap through slits in tips of hollow center bristles by rotation of handle. Brush is intended to spread and rub contents of storage cylinder, automatically closes when pressure is released, thus sealing tips. A modification of the same invention provides for head of brush to be screwed to top of tube or like, tube being merely squeezed to operate. (Owner) Frank J. Bambach, 235 Fairfield Ave., Hartford, Conn. Groups 30—51; 34—92; 39—22. Reg. No. 524.

Pat. 2,326,482. WHEELED GOLF CLUB CARRIER. Patented Aug. 10, 1943. Wheel supported golf club carrier or the like which is capable of traveling over rough terrain without upsetting or picking up sand or earth. May be folded when not in use. Inventor states bag is light weight and will not tire user. Same construction may be adapted to go-carts, shopping bags, etc. (Owner) William C. Moffitt, 905 Pajaro St., Salinas, Calif. Groups 22—11—53; 33—73; 39—43—49. Reg. No. 525.

Pat. 2,174,597. FURNACE WALL AND PART THEREOF AND METHOD. Patented Oct. 3, 1939. Method of preserving furnace walls or other refractory surfaces subjected to high temperatures, by spraying the walls with molten metal. Spraying may be done on wall while in place or before construction. Handling does not injure coating. Purposes and tests recited in patents. (Owners) John N. Pyster and Carl W. Stuke. Address all correspondence to John N. Pyster, 4701 Lincoln Ave., Oakland 2, Calif. Groups 32—55—71; 35—69. Reg. No. 526.

Pat. 2,234,895. OSCILLATOR TUBE RELAY CONTROL. Patented Mar. 11, 1941. A control circuit involving an oscillator tube arranged to control relatively heavy mechanisms by minute fluctuations in the circuit characteristics. Adapted to actuate a switch according to the response of a thermostat, hygrometer, or other sensitive element. (Co-owner) James P. Cerveny, 1427 N. E. Skidmore St., Portland 11, Oreg. Group 36—61. Reg. No. 527.

Pat. 2,364,250. EEL KNIFE. Patented Dec. 5, 1944. Fish skinning and cleaning knife having sharp pointed blade and bowed formation with gripper teeth along portion of edge for holding fish while skinning. (Owner) Joseph T. Stokes, #14A South Ohio Ave., Atlantic City, N. J. Groups 33—52—73; 38—31; 40. Reg. No. 528.

Pat. 2,379,634. TROUSER HANGER. Patented July 3, 1945. Garment hanger may be fabricated from any desired material. Clamping arms are actuated by a wedge-shaped separator pivotally held between arms. Separator is provided with conventional hook for hanging. (Owner) Lewis H. Hall, 118 White St., Springfield, Mass. Groups 25—99; 28—83; 33—49; 39—81; 40. Reg. No. 529.

Des. Pat. 138,572. DESIGN FOR A TIRE SERVICING TOOL. Patented Aug. 22, 1944. Design for a tire servicing tool used in repairing tires. May be formed of stamped metal parts. (Owner) Joseph B. Jarrell, 1734 Julian St., Denver 4, Colo. Groups 33—52—73; 38—31; 40. Reg. No. 530.

Pat. 1,950,956. METHOD OF COATING CHLORAMINE AND PRODUCT THEREOF. Patented Mar. 13, 1934. Method of treating chemicals whereby they are protected against reaction, inter-action, decomposition, or other change until such action is desired. Prevents action of an unstable or highly reactive chemical until such action is desired. Patent gives one specific example using coated chloramine. (Owner) Warner F. Wilhelm, 9145 S. Leavitt St., Chicago, Ill. Group 28—31—89. Reg. No. 531.

Pat. 2,118,189. NEST DOOR. Patented May 24, 1938. For attachment to conventional nesting equipment to permit ingress and egress of hen. Comprises arrangement of vertical straps, slidable rods and door which normally remains closed except for small opening at bottom. Modified arrangement permits automatic locking of hen in nest; locking means must be manually released. (Owner) Elmer J. German, 367 S. Third St., Fulton, N. Y. Groups 25—99; 33—41—49. Reg. No. 532.

Pat. 2,234,524. CHURN SUPPORT. Patented Mar. 11, 1941. Intended to be attached to washing machine of the oscillator type. During operation of washing machine oscillator, butter is formed in cream container which is held in flanges of supporting frame. Spaced rubber rings in frame are snugly fitted around spindle of machine. Base has corrugated rubber ring to prevent slippage. (Owner) Forest L. Fulwider, Anamosa, Iowa. Groups 20—21; 35—51—81. Reg. No. 533.

Pat. 2,120,748. DRYING FORM. Patented June 14, 1938. Constructed so that it may be lengthened or shortened, expanded or contracted, and readily adjusted to size of garment. By means of two tubular shoulder cross bars, sleeve portions are slidably adjustable. An overlapping cross bar fitted with eyes to receive protrusion to keep in locked position permits waist adjustment. Waist may be raised or lowered by means of notches in side of frame. Skirt portion easily adjustable in similar manner. Whole is collapsible and may be knocked down for shipping. (Owner) Sadie A. Harris, Forest at B. & O. Railroad, % Warren Welding Co., Warren, Ohio. Groups 33—41; 35—81—82—89. Reg. No. 534.

Pat. 1,911,463. FOOD MATERIAL AND PROCESS OF MAKING SAME. Patented May 30, 1933. Highly concentrated dehydrated food known as "Brunswick Stew" substantially free from fatty substances which can be consumed in flat cake, cracker, or other original form, or converted into stew. Can be packed in paper cartons, shipped to any climate and stored for long periods without becoming rancid or unpalatable. (Owner) Annie R. C. Owen, % W. O. C. Owen, 2719 Ontario Rd., N. W., Washington, D. C. Group 20—52—99. Reg. No. 535.

Pat. 2,288,970. COMESTIBLE. Patented July 7, 1942. (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.) A coated frozen confection wherein the coating is provided with a plurality of weakened lines dividing the surface into predetermined areas to limit the splitting and shelling off of the coating to substantially the area to be removed by individual bites. (Owner) Eugene R. Weisbender, 2330 Davue Circle, Dayton 6, Ohio. Group 20—37—71. Reg. No. 536.

Pat. 2,285,559. RAILROAD CROSSING. Patented June 9, 1942. Mechanism adapted to be associated with railroad tracks crossing each other at right angles to maintain a continuous track in either direction for movement of train. At the points of intersection the top flanges of the four rails are beveled laterally to provide pointed ends and associated therewith are four pivoted movable rail sections of such cooperating shape that when they are swung in either direction continuous rails are formed. Operation is controlled from tower. (Owner) Clyde H. Blair, 2470 Hilltop, Springfield, Ohio. Groups 33—12—92; 37—11. Reg. No. 537.

Re. Pat. 22,002. MIXING MACHINE. Reissued Jan. 13, 1942. Original No. 2,095,907, dated Oct. 12, 1937. May be designed for home laboratory or industrial use, will thoroughly mix a wide range of materials in a short time with consequent saving of power. Two shafts are fitted with specially designed blades or paddles. One shaft revolves twice as fast as the other yet the blades just clear the bosses of the opposing blades. Blades sweep the bottom and sides of pan clear of all material so that with each complete revolution all ingredients are lifted and all mixing done between the blades and not between the blades and pan. Blades may have apertures and speed increased for certain mixtures, may also carry removable tips. (Owner) Fritz Beken, 27 Sunnyside Rd., Ilford, Essex, England. Groups 20—41—42—45—51—99; 32—42; 35—51; 39—11. Reg. No. 538.

Pat. 2,254,966. COMBINED CLOTHING BUTTON AND SIGNAL DEVICE. Patented Sept. 2, 1941. Button having colored convex reflective lens functions as conventional button but also serves as a warning signal at night by reflecting light rays projected thereon and thus indicating presence of wearer. (Owner) Johannes A. H. Lang, 92 Rockdale St., Mattapan 26, Mass. Groups 34—99; 38—31; 39—61. Reg. No. 539.

Pat. 2,323,745. RAZOR. Patented July 6, 1943. Electric dry shaver provides two convex cutting surfaces in step formation. Two frictionally driven rotors each carry two movably mounted blades for centrifugal contact with diagonally arranged apertures in shield, such apertures cooperating with blades to provide cutting edges and at same time hone blades. Blades also act as fans to discharge cut hair inside the housing. (Owner) George A. Wildeboor, Lt., Co. "A", Vint Hill Farms Station, Warrenton, Va. Group 33—51—73; 40. Reg. No. 540.

Pat. 2,371,918. CARPET SWEEPER. Patented Mar. 20, 1945. Hand driven carpet sweeper, which is devoid of any particular fastening means such as nails, screws, etc., can be readily assembled or disassembled without the use of tools. Has a one-piece casing which can be formed by a single molding operation. Device is provided with spring means which controls operation. When increased pressure is applied to the handle to force brushes into carpet such spring means increases the driving power of the wheels. Slippage and loss of traction is largely avoided. (Owner) Morris L. Rubin, 58 Mapes Ave., Newark, N. J. Groups 35—69; 36—21; 39—21. Reg. No. 541.

Pat. 2,217,317. AUTOMOBILE JACKING DEVICE. Patented Oct. 8, 1940. Intended to be used in conjunction with standard automobile jack to hold car securely in jacked-up position without danger of slipping. Consists of plate with vertical slots which receive bolts and U-shaped members which embrace the bumper supports. The whole is bolted together, the recess of the plate shaped to receive the grooved head of the jack. The whole is self-adjusting and may, if desired, remain in position, thus obviating assembling when needed, since it is concealed by cutside of bumper. (Owners) Joseph F. McNally, 54 Van Buren St., Brooklyn, N. Y., and Jeremiah F. Toomey, 3235 Hull Ave., Bronx, N. Y. Groups 33—52—72; 35—69; 38—31. Reg. No. 542.

Pat. 2,026,108. CLOSURE SEAL AND CAP GUARD. Patented Dec. 31, 1935. Detachable cap guard or closure seal for an automobile gasoline tank whereby on removal it is held on the tank in open hinge-like position and constrained in its movement so it may be interlocked from that position and tank resealed. (Owners) Jeremiah F. Toomey, 3235 Hull Ave., Bronx, N. Y., and Joseph F. McNally, 54 Van Buren St., Brooklyn, N. Y. Groups 33—59; 35—59; 38—31. Reg. No. 543.

Pat. 1,828,913. AUTOMOBILE JACKING DEVICE. Patented Oct. 27, 1931. Interlocking connection adapted to be permanently attached to bumper of vehicle acting in combination with conventional screw-type jack. Device comprises arm with socket opening therein and a detachable, swiveled, ball-bearing collar. Whole connection is journaled for rotation of thrust rod of jack therethrough when jack is operated in usual manner. Collar may be carried by jack is desired. (Owners) Jeremiah F. Toomey, 3235 Hull Ave., Bronx, N. Y., and Joseph F. McNally, 54 Van Buren St., Brooklyn, N. Y. Groups 33—52—72; 35—69; 38—31. Reg. No. 544.

Pat. 2,379,503. SANDER. Patented July 3, 1945. Dust collector for abrasive wheels of woodworking machines or the like. Device utilizes power of main driven element of conventional machine to operate a fan to create suction to collect and deposit dust resulting from abrasive action in suitable container. Abrasive wheel is partly enclosed in casing. Adds small cost to machine and occupies little space. (Owner) Stephen R. Teager, 621 E. 26th St., Brooklyn, N. Y. Groups 32—91; 35—53. Reg. No. 545.

Pat. 2,357,986. VALVE MECHANISM. Patented Sept. 12, 1944. Control mechanism for high pressure hydraulic actuating means for manipulating mechanism employed on slabbing and blooming rolling mills. A single main control valve, whose movement is controlled by a single conventional pilot valve, is entirely enclosed, has no externally projecting relatively movable parts and has all the simplicity of a single sealed, self-contained unit when assembled. The number of relatively movable parts is also reduced to a minimum. Necessity of providing external packing boxes or glands is eliminated thus minimizing likelihood of leakage. (Owner) Samuel P. Wichterman, 134 Thompson Ave., Donora, Pa. Groups 33—12; 35—42. Reg. No. 546.

Pat. 2,186,407. PLAYING FIELD MARKER. Patented Jan. 9, 1940. One-wheeled vehicle comprises hopper and rotary agitating means within hopper mounted on hub. Series of tufts of stiff bristles, preferably wire, uniformly spaced are attached to agitator. When device is rolled over ground rotation of wheel drives agitator which keeps material thoroughly mixed so that it flows freely and is discharged uniformly in a line on ground. Valve means are provided to control quantity of discharged material. Device may be operated by one hand. (Owner) Linnie E. Dishman, 165 N. B. St., Justin, Calif. Groups 35—61; 39—49. Reg. No. 547.

Pat. 2,237,638. THREAD REMOVAL ATTACHMENT FOR RECORDING MECHANISMS. Patented Apr. 8, 1941. Reg. No. 548.

Pat. 2,311,481. THREAD RECEIVER AND REMOVER. Patented Feb. 16, 1943. Reg. No. 549.

The two patents listed above relate to a device for use with recording mechanisms. A cylinder supported over record for frictional rotation therewith has a nappy surface which assures positive automatic pick-up and winding of cuttings thereon. Inner end of cylinder is attached to post around which record rotates and outer end is attached to a flexible rod curving downwardly through hole in table. Cylinders may be of uniform diameter or cone-shaped. A modification provides positive gear means for rotation. Latter patent provides a single resilient adjustable support for cylinder located entirely outside periphery of record, which allows vertical movement of cylinder to conform to unevenness or wobble of record. Also regulates speed of cylinder by adjusting it to contact record at different points. (Owner) Roy Sinclair, 1125 Fifth Ave., New York, N. Y. Groups 33—73; 36—61.

Pat. 1,919,862. SHOE. Patented July 25, 1933. Reg. No. 550.

Pat. 1,942,001. SHOE. Patented Jan. 2, 1934. Reg. No. 551.

Pat. 1,973,105. SHOE. Patented Sept. 11, 1934. Reg. No. 552.

Pat. 2,049,227. SHOE. Patented July 28, 1936. Reg. No. 553.

The four patents listed above relate to cushioned shoes preferably of Goodyear welt type. Shoes have adequate cushioning material, such as sponge rubber, throughout the soles and heels with the heel portion provided with additional cushioning pads. Provides firm attachment of soles and heels without use of nails and effective manner of constructing shoes with relatively narrow heels. Heel structure may also be applied to non-cushioned shoes. Shoes are durable, will retain original shape and can be manufactured without introducing excessive cost. (Co-owner) Chester F. Rohn, 4525 N. Frederick Ave., Milwaukee 11, Wis. Group 31—41.

Pat. 2,107,129. SHOE STRUCTURE. Patented Feb. 1, 1938. Arch support confined in pocket can be applied to shoes of various kinds without complicating attachment of vamp lining and welt. Support need not be directly attached to insole either prior or subsequent to the lasting operation; is clearly visible from within completed shoe yet cannot annoy wearer. Adds but small additional manufacturing cost to shoes. (Owners) Chester F. Rohn and Franklyn A. Rohn. Address all correspondence to Chester F. Rohn, 4525 N. Frederick Ave., Milwaukee 11, Wis. Groups 31—41; 39—16. Reg. No. 554.

Pat. 2,327,612. METHOD OF AND APPARATUS FOR GENERATING PICTURES OF THE FUNDUS OF THE LIVING EYE. Patented Aug. 24, 1943. Photographs of the fundus or back of the eye are taken without dilating the pupil of the eye, obviating use of cycloplegic drugs. Uses optical arrangement which cuts out undesired polarized light and camera set in a minimum of light. Rapidity of use of light in taking picture precludes corneal reflex. Of value in diagnostic and prognostic observations of many affections of the eye. (Owner) The Ohio State University Research Foundation, Columbus 10, Ohio. Group 39—11—13—14. Reg. No. 555.

Pat. 2,294,199. CALCULATING INSTRUMENT. Patented Aug. 25, 1942. Device employs principle of the slide rule. A substantially wide scale member is positioned in recessed body member preferably of metal so that range of calculations will be appreciably increased over conventional calculating devices. Cursor is provided with a transversely disposed index line which cooperates with scale member in calculations. A pivoted stop can be projected into or out of the line of scale member by pressing button. Clearance for fingers is provided when operating device. (Owner) George H. Morse, 927 28th St., South, Arlington, Va. Groups 33—52; 35—43—65—71; 39—11. Reg. No. 556.

**Notice**

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 6, 1945

[VOL. 580. No. 1]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 480,455. HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 3, 1945.

**DRESINOL**

FOR RESIN EMULSIONS USED AS MODIFIERS IN ADHESIVES IN TEXTILE FINISHING COMPOSITIONS, IN EMULSION PAINTS, AS AN INGREDIENT IN BINDERS FOR PLASTICS, GLASS WOOL AND ROCK WOOL INSULATION, AND AS AN INGREDIENT IN RUBBER LATEX COMPOSITIONS.

Claims use since on or about Oct. 23, 1944.

Ser. No. 485,846. THE PHILADELPHIA SEED CO., Philadelphia, Pa. Filed July 12, 1945.

**BINGO**

FOR GRASS, FIELD, AND AGRICULTURAL SEEDS.

Claims use since Dec. 31, 1892.

## CLASS 2

### RECEPTACLES

Ser. No. 482,516. JULIUS A. ZINN, JR., Belmont, Mass. Filed Apr. 23, 1945.




The words "Never-Leak Containers" are disclaimed apart from the mark.

FOR CONTAINERS FORMED OF SHEET MATERIAL, SUCH AS COATED AND/OR IMPREGNATED AND MOISTURE IMPERVIOUS OR MOISTURE RESISTANT CARDBOARD, PASTEBOARD, OR OTHER FIBRE BOARD; FOR HOLDING MILK, FOOD PRODUCTS, OILS, GREASES, ETC., IN LIQUID, SEMI-LIQUID, POWDERED, OR SOLID FORM.

Claims use since Dec. 10, 1944.

Ser. No. 483,571. EMPIRE BOX CORPORATION, Garfield, N. J. Filed May 19, 1945.

**SHURPAK**

FOR COLLAPSIBLE GLUED BOXES, CARTONS AND TRAYS MADE OF BOXBOARD, PAPERBOARD, OR CARDBOARD.

Claims use since Apr. 25, 1945.

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 480,387. RIT PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 1, 1945.

**ZET**

FOR SHOE AND LEATHER POLISH WHICH INCLUDES A DYE AS ONE OF ITS INGREDIENTS.

Claims use since on or about Sept. 1, 1919.

Ser. No. 482,799. GREAT STUFF PRODUCTS CORP., Chicago, Ill. Filed Apr. 30, 1945.



**JOHN D. JR.**

The picture shown in the drawing is fanciful.

FOR SOAP.

Claims use since Jan. 11, 1921.

Ser. No. 483,922. PITTSBURGH CRUSHED STEEL COMPANY, Pittsburgh, Pa. Filed May 29, 1945.

ARC-HITE
PEENING
SHOT

The words "Peening Shot" on the drawing are disclaimed apart from the mark as shown.
FOR STEEL PEENING SHOT.
Claims use since May 16, 1945.

Ser. No. 484,324. SCIENTIFIC SUPPLY COMPANY, INC., Denver, Colo. Filed June 8, 1945.

SUDSATION

FOR CLEANING COMPOUNDS FOR WASHING DISHES, PAINTED SURFACES, AUTOMOBILES, FLOORS, AND THE LIKE.
Claims use since Aug. 1, 1944.

Ser. No. 484,528. MAURICE HANDMAN, doing business as Maurella Products Co., New York, N. Y. Filed June 14, 1945.

TIMBER!

FOR EMOLLIENTS AND LOTIONS FOR USE, EITHER WITH BRUSHED LATHER OR WITH BRUSHLESS SHAVING CREAMS, AS BEARD SOFTENERS, OR BEFORE SHAVING WITH ELECTRIC RAZORS, BRUSHLESS SHAVING CREAMS, NO BRUSH SMOOTH SHAVE CREAMS, BOWLS CONTAINING SHAVING SOAP, AND SOAP.
Claims use since Nov. 1, 1944.

Ser. No. 484,909. LEO A. SAUER, doing business as V-O Manufacturing Co., Glendale, Calif. Filed June 22, 1945.

V-O

FOR SOAPS, COMPOUNDS FOR CLEANING RUBBER MATS, GLASS CLEANING COMPOUNDS, AND SPOT REMOVERS.
Claims use since on or about Nov. 15, 1940.

Ser. No. 485,549. JOHN T. STANLEY CO., INC., New York, N. Y. Filed July 7, 1945.

STANOX

FOR SOAP.
Claims use since July 1930.

## CLASS 5
## ADHESIVES

Ser. No. 480,481. UNION-BAYSTATE CO. INC., Cambridge, Mass. Filed Mar. 3, 1945.

CHLOR-ISOPOL

FOR SYNTHETIC RUBBER CEMENT.
Claims use since Jan. 26, 1945.

Ser. No. 483,042. THE STECK COMPANY, Austin, Tex. Filed May 5, 1945.

NEGATABS

FOR ADHESIVE TABS, TRANSPARENT, TRANSLUCENT, AND OPAQUE, FOR FASTENING PRINTS, NEGATIVES, PLATES, SHEETS, FILM AND OTHER OBJECTS, AND SUPPORTING STRIPS FOR SUCH TABS.
Claims use since Apr. 19, 1945.

## CLASS 6
## CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 470,008. CHARLES V. SPARHAWK, doing business as Sparhawk Company, Sparkill, N. Y. Filed May 6, 1944.

PETRA

FOR SKUNK GLAND PRODUCT FOR FIXATIVES IN PERFUMERY, AS A LURE IN THE TRAPPING INDUSTRY AND FOR PEST REPELLENT.
Claims use since Feb. 23, 1941.

Ser. No. 470,163. WALKER VITAMIN PRODUCTS, INC., Mt. Vernon, N. Y. Filed May 11, 1944.

FEOPLEX

FOR CAPSULES CONTAINING FERROUS SULFATE EXSICCATE WITH ADDED VITAMINS FROM THE B COMPLEX GROUP.
Claims use since Aug. 3, 1943.



Ser. No. 471,899. GREEN-BRADBURY, INC., Toledo, Ohio, and Hollywood, Calif. Filed July 8, 1944.

MR. SNAP
SNAP

FOR EFFERVESCENT SELTZER TABLETS.
Claims use since as early as June 1, 1941.

Ser. No. 473,679. WESLEY H. SMART, San Francisco, Calif. Filed Aug. 28, 1944.

SMART'S
SMAR-T-OLENE

The word "Smart's" is disclaimed apart from the mark.
FOR MEDICINAL PREPARATION FOR THE TREATMENT OF POISON OAK.
Claims use since July 15, 1944.

Ser. No. 475,463. REFINED PRODUCTS COMPANY, Lyndhurst, N. J. Filed Oct. 18, 1944.

PERMA TERGE

FOR DETERGENT COMPOUND USED AS A DYEING ASSISTANT, FOR SCOURING AND ALSO DESIZING IN THE PROCESS OF DYEING ALL TYPES OF SPUN RAYON, RAYON SHEERS, NYLON, WOOLEN MIXTURES, AND SPUN RAYON MIXTURES.
Claims use since June 1, 1939.

Ser. No. 476,135. BRUNSWIG DRUG COMPANY, doing business as Angelus Laboratories, Los Angeles, Calif. Filed Nov. 6, 1944.

Angelus
VI-MAX

FOR MULTIPLE VITAMIN PRODUCT.
Claims use since Nov. 1, 1944.

Ser. No. 476,218. ANDREW S. MIHALIK, Roselle Park, N. J. Filed Nov. 7, 1944.

cericaps

FOR VITAMIN PREPARATION.
Claims use since Aug. 1, 1944.

Ser. No. 476,219. ANDREW S. MIHALIK, Roselle Park, N. J. Filed Nov. 7, 1944.

komplex

FOR VITAMIN PREPARATION.
Claims use since Sept. 1, 1944.

Ser. No. 478,726. TUVACHE CO., New York, N. Y. Filed Jan. 17, 1945.

TUVACHÉ

FOR PERFUME, COLOGNE, HAIR LOTION, SKIN PERFUME, BATH OIL, AND AFTER SHAVING LOTION.
Claims use since October 1938.

Ser. No. 480,955. ROBERT Z. LINDSAY, doing business as Veddersburg Co., Amsterdam, N. Y. Filed Mar. 15, 1945.




Applicant disclaims exclusive use of the descriptive term "Shav" apart from the mark as shown.
FOR AFTER SHAVING LOTION.
Claims use since Dec. 30, 1944.

Ser. No. 483,230. METROPOLITAN CHEMICAL CORPORATION, Albany, N. Y. Filed May 11, 1945.

METRO
The DOUBLE-DUTY Shampoo

Without waiving any common law rights thereto, applicant disclaims use to the descriptive term "The Double-Duty Shampoo" apart from the mark as shown.
FOR SHAMPOO FOR THE HAIR CONTAINING INCIDENTAL INSECTICIDAL PROPERTIES.
Claims use since Mar. 1, 1944.

Ser. No. 484,248. CONSOLIDATED EXTERMINATORS, INC., New York, N. Y. Filed June 7, 1945.

CONSOLIDATED EXTERMINATORS

Applicant disclaims the word "Exterminators" apart from the mark as shown.
FOR INSECTICIDES.
Claims use since Feb. 15, 1944.

Ser. No. 484,742. HALLIWELL INC., New York, N. Y. Filed June 19, 1945.

Viro-Creme

The word "Creme" is hereby disclaimed apart from the mark.
FOR COLD WAVE PERMANENT WAVING LOTION.
Claims use since May 9, 1945.

Ser. No. 484,912. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed June 22, 1945.

DAY-LITE DUST

The word "Dust" is disclaimed apart from the mark.
FOR INSECTICIDES AND FUNGICIDES.
Claims use since about Mar. 1, 1945.

Ser. No. 485,282. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J. Filed June 30, 1945.

FOR CARBON DIOXIDE AND OXYGEN.
Claims use since on or about Oct. 10, 1941, on oxygen; and since Sept. 1, 1942, on carbon dioxide.

Ser. No. 485,394. APPLIED CHEMICAL CORPORATION, New York, N. Y. Filed July 3, 1945.

Alacet

FOR ALUMINUM ACETATE.
Claims use since Apr. 1, 1945.

Ser. No. 485,398. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del. Filed July 3, 1945.

DAT

FOR PARASITICIDES AND INSECTICIDES.
Claims use since June 5, 1945.

Ser. No. 485,435. CHARLES BRUNING COMPANY, INC., New York, N. Y. Filed July 4, 1945.

COPYFLEX

FOR DEVELOPING POWDERS AND MATERIALS USED IN CONNECTION WITH TREATING SENSITIZED PAPERS AND CLOTHS.
Claims use since Apr. 9, 1943.

Ser. No. 485,444. HERCULES POWDER COMPANY, Wilmington, Del. Filed July 4, 1945.

THANISOL

FOR ACTIVE CHEMICAL INGREDIENT FOR USE IN THE MANUFACTURE OF INSECTICIDES.
Claims use since Feb. 14, 1945.

Ser. No. 485,490. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed July 6, 1945.

MICRODOL

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, PHOTOGRAPHIC DEVELOPER AND REPLENISHER THEREFOR.
Claims use since June 2, 1945.

Ser. No. 485,492. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed July 6, 1945.

VERSATOL

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, PHOTOGRAPHIC DEVELOPER AND REPLENISHER THEREFOR.
Claims use since Apr. 3, 1945.



Ser. No. 485,596. S. PFEIFFER MANUFACTURING COMPANY, St. Louis, Mo. Filed July 9, 1945.

F-M-C

FOR COUGH SYRUP.
Claims use since May 1940.

Ser. No. 485,580. MANSON DISTRIBUTORS, doing business as Royana, Chicago, Ill. Filed July 9, 1945.

Disturbing

FOR PERFUME AND COLOGNE.
Claims use since May 1944.

Ser. No. 485,651. RIVAL FOODS, INC., Cambridge, Mass. Filed July 10, 1945.

Rival

FOR AMMONIA, BLEACHING WATER, AND GLOSS STARCH.
Claims use on ammonia since 1912; on gloss starch since Aug. 17, 1942; and on bleaching water since May 21, 1945.

Ser. No. 485,732. MCCONNON & COMPANY, Winona, Minn. Filed July 12, 1945.

SABACOP

FOR INSECTICIDE.
Claims use since June 19, 1945.

Ser. No. 485,735. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed July 12, 1945.

IROLAY

FOR OINTMENT TO RELIEVE SUPERFICIAL ITCHING.
Claims use since July 1944.



Ser. No. 485,740. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed July 12, 1945.

VETAVITE

FOR MULTIVITAMIN PREPARATIONS FOR USE IN VETERINARY MEDICINE.
Claims use since June 26, 1945.

## CLASS 10
### FERTILIZERS

Ser. No. 484,037. SHELL UNION OIL CORPORATION, San Francisco, Calif. Filed May 31, 1945.

NITROJECTION AMMONIA

No claim is made to the word "Ammonia" apart from the mark.
FOR AMMONIA FOR SOIL FERTILIZING.
Claims use since Feb. 10, 1945.

## CLASS 12
### CONSTRUCTION MATERIALS

Ser. No. 462,255. HARTZELL INDUSTRIES, INC., Piqua, Ohio. Filed July 23, 1943.

Duopreg

FOR IMPREGNATED AND COMPRESSED WOOD PRODUCT—NAMELY, BOARDS, SLABS, PLANKS, AND BEAMS COLLECTIVELY REFERRED TO AS LUMBER.
Claims use since June 23, 1943.

Ser. No. 485,771. RUDOLF F. HLAVATY, doing business as Hlavaty Insulations, Cicero, Ill. Filed July 13, 1945.

KAPOPAC

FOR INSULATION—NAMELY, SHEET INSULATION, LAMINATED AND UNLAMINATED, COATED AND UNCOATED, FORMED OF KAPOK AND MIXTURES OF KAPOK AND OTHER VEGETABLE, ANIMAL, MINERAL, AND SYNTHETIC FIBERS, AND USED FOR SOUND AND THERMAL INSULATION IN CONTAINERS, BUILDINGS, BOOMS, AND VEHICLES FOR AIR, LAND, AND MARINE TRAVEL.
Claims use since June 1, 1945.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 477,928. FEDERAL ELECTRIC COMPANY, INC., Chicago, Ill. Filed Dec. 26, 1944.

FEDRALITE

FOR PLASTIC PIPE AND TUBING.
Claims use since Sept. 8, 1940.

Ser. No. 483,305. THE DAYTON MANUFACTURING COMPANY, Dayton, Ohio. Filed May 14, 1945.

Combolet

FOR COMBINATION TOILET FACILITIES CONSISTING OF A WASH BASIN AND A TOILET BOWL.
Claims use since Nov. 24, 1944.

Ser. No. 484,815. ALLIANCEWARE, INCORPORATED, Alliance, Ohio. Filed June 21, 1945.

AllianceWare

The word "Ware" is disclaimed apart from the mark shown.
FOR PORCELAIN-ENAMELED BATHTUBS, LAVATORIES, AND SINKS.
Claims use since July 1, 1938.

Ser. No. 484,947. FEDERAL ELECTRIC COMPANY, INC., Chicago, Ill. Filed June 23, 1945.

FOR PLASTIC PIPE AND TUBING.
Claims use since October, 1941.

## CLASS 15

### OILS AND GREASES

Ser. No. 485,666. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed July 10, 1945.



FOR LUBRICATING OILS AND GREASES.
Claims use since June 12, 1945.

Ser. No. 486,529. INTERNATIONAL LUBRICANT CORPORATION, New Orleans, La. Filed July 31, 1945.




Applicant is the owner of T. M. Reg. Nos. 327,313, registered Aug. 20, 1935, and 361,743, registered Nov. 1, 1938. The lining in the drawing indicates a reddish-orange coloring. Exclusive right to the use of the word "Lubrication" is disclaimed.
FOR LUBRICATING OILS AND GREASES.
Claims use since Mar. 1, 1937.

Ser. No. 487,389. J. STANLEY RISING, Oakland, Calif. Filed Aug. 21, 1945.

ATOMIC

FOR GASOLINE AND LUBRICATING OILS.
Claims use since Aug. 16, 1945.



Ser. No. 487,996. CONTINENTAL OIL COMPANY, Ponca City, Okla. Filed Sept. 5, 1945.

N-TANE

FOR GASOLINE.
Claims use since Aug. 31, 1945.

## CLASS 19

### VEHICLES

Ser. No. 470,727. LAISTER-KAUFFMANN AIRCRAFT CORPORATION, Richmond Heights, Mo. Filed May 27, 1944.

"TROJAN HORSE"

FOR GLIDER PLANES.
Claims use since Jan. 24, 1944.

Ser. No. 483,861. M SYSTEM MFG. CO., Vicksburg, Miss. Filed May 28, 1945.

HOMETTE

FOR HOUSE TRAILERS.
Claims use since May 19, 1945.

Ser. No. 484,109. TRAVELITE TRAILER CO., Chicago, Ill. Filed June 2, 1945.




The outline representation of the name is disclaimed apart from the mark as shown.
FOR HOUSE TRAILERS.
Claims use since Apr. 27, 1945.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 480,067. THE REX CO., INC., Cambridge, Mass. Filed Feb. 21, 1945.

Rexenite

The lining on the drawing represents the color red.
FOR PLASTIC COMPOSITION IN THE FORM OF THREAD OR RODDING USED AS WOUND ELECTRICAL INSULATION FOR ELECTRIC WIRING.
Claims use since Jan. 26, 1945.

Ser. No. 480,881. SYNTRON COMPANY, Homer City, Pa. Filed Mar. 13, 1945.

SYNTRON

FOR UNITARY HAND ELECTRIC HAMMERS AND THEIR CONTROLS; ELECTRIC DRILLS, GRINDERS, SANDERS, AND HACK SAWS; AND INDUSTRIAL ELECTRIC PAPER JOGGERS AND PACKERS; ELECTRIC VIBRATORS AND THEIR CASES, ELECTRIC CONCRETE FORM VIBRATORS, AND ELECTRIC CONTROLLERS THEREFOR.
Claims use since Dec. 1, 1922.

Ser. No. 481,420. MOFFATS LIMITED, Town of Weston, Ontario, Canada. Filed Mar. 28, 1945.



FOR ELECTRIC STOVES AND RANGES; ELECTRIC OVENS; KETTLES AND PAILS PROVIDED WITH ELECTRIC HEATING ELEMENTS; AND ELECTRIC HEATING ELEMENTS.
Claims use since 1930.

Ser. No. 482,403. THE O. A. SUTTON CORPORATION, INCORPORATED, Wichita, Kans. Filed Apr. 20, 1945.

VORNADOFAN

No claim is made to the word "Fan" apart from the mark as shown.

FOR ELECTRIC FANS FOR DOMESTIC AND COMMERCIAL USE.

Claims use since August 1944.

---

Ser. No. 483,209. CALKINS APPLIANCE CORPORATION, South Bend, Ind. Filed May 11, 1945.

BREAKFASTER

FOR COMBINATION ELECTRIC TOASTER AND COOKER.

Claims use since Jan. 25, 1945.

---

Ser. No. 483,238. S. G. SHAPIRO & SON, New York, N. Y. Filed May 11, 1945.

CURL-O-MAT

The word "Curl" is disclaimed, except as used within the mark.

FOR UNIT COMPRISING AN ELECTRICALLY HEATED TOOL FOR CURLING AND CHANGING THE CHARACTER OF CURLS ON FUR PELTS, PARTICULARLY OF THE PERSIAN LAMB TYPE, AND A STAND FOR SAID TOOL.

Claims use since May 15, 1940.

## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 481,009. PETER K. BRENNER, Cliffside Park, N. J. Filed Mar. 17, 1945.

RADAR

FOR GAME BOARDS.

Claims use since Oct. 24, 1944.

Ser. No. 482,055. CLARENCE L. HAHN, doing business as H & H Research Laboratory, Baltimore, Md. Filed Apr. 12, 1945.

ROUST-A-BOUT

FOR ARTIFICIAL FISH BAIT.

Claims use since June 28, 1944.

---

Ser. No. 485,172. SPIEGEL, INC., Chicago, Ill. Filed June 28, 1945.




FOR FISHING RODS, FISHING REELS, FISHING LINES, ARTIFICIAL FLIES, AND FISHING LINE BOBBERS.

Claims use since September 1935.

---

Ser. No. 485,216. GROSSMAN MUSIC CO., Cleveland, Ohio. Filed June 29, 1945.

HUM-A-ZOO

Applicant disclaims the word "Hum" apart from the mark as shown.

FOR TOY MUSICAL HUMMING INSTRUMENTS.

Claims use since June 1, 1945.

---

Ser. No. 485,828. NORLAND MANUFACTURING CORPORATION, New York, N. Y. Filed July 14, 1945.

BEAT-'EM-OUT

FOR BOXED SETS OF MARBLE GAMES.

Claims use since June 12, 1945.

---

Ser. No. 486,400. RALPH M. ANTHONY, Detroit, Mich. Filed July 28, 1945.

TONY TOY

The word "Toy" is disclaimed apart from the mark as shown.

FOR TOY BUILDINGS AND TOY GUNS.

Claims use since November 1942.



Ser. No. 487,789. MONARCH PLAYTIME PRODUCTS, Chicago, Ill. Filed Aug. 30, 1945.

MONARCH

FOR JIG-SAW PUZZLES.

Claims use since July 10, 1942.

---

Ser. No. 487,790. MONARCH PLAYTIME PRODUCTS, Chicago, Ill. Filed Aug. 30, 1945.

PLAYTIME

FOR JIG-SAW PUZZLES.

Claims use since July 10, 1942.

## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 480,861. EITEL-MCCULLOUGH, INC., San Bruno, Calif. Filed Mar. 13, 1945.

Eimac

FOR VACUUM PUMPS.

Claims use since June 1943.

---

Ser. No. 480,973. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Long Island City, N. Y. Filed Mar. 16, 1945.

HELI-COIL

Applicant disclaims the notation "Coil" apart from the mark.

FOR TOOLS, APPARATUS, AND MACHINERY FOR USE IN CONNECTION WITH SCREW CONNECTIONS AND THEIR PARTS—NAMELY, SCREW-THREAD-TAPPING TOOLS, COILING MACHINES FOR WIRE THREAD INSERTS, TOOLS FOR INSERTING AND EXTRACTING WIRE THREAD BUSHINGS, STAKING TOOLS FOR SECURING THREAD BUSHINGS IN BOSS MEMBERS.

Claims use since Nov. 20, 1942.

Ser. No. 483,157. ULLMAN PRODUCTS CORP., Brooklyn, N. Y. Filed May 9, 1945.

CMASTER

FOR PORTABLE MACHINERY INSPECTING MIRRORS.

Claims use since Oct. 25, 1942.

---

Ser. No. 485,604. THE RIDGE TOOL COMPANY, Elyria, Ohio. Filed July 9, 1945.

RIDGID

FOR PIPE WRENCHES, MONKEY WRENCHES, COMPOUND LEVERAGE WRENCHES, CHAIN PIPE WRENCHES, RUBBER GRIPS FOR WRENCH HANDLES, PIPE VISES, BENCH VISES, KIT VISES, POST VISES, PIPE BENDING VISES, CHAIN VISES, VISE STANDS, PIPE AND TUBING CUTTERS AND CUTTER BLADES, DIE STOCKS, RATCHET DIE STOCKS, THREADING DIES, RATCHET DIES, THREE-WAY DIES, EXTRACTORS INCLUDING BOLT, SCREW AND NIPPLE EXTRACTORS, EXTRACTOR KITS, DRILLS AND DRILL GUIDES AND WRENCHES FOR EXTRACTORS, AND PARTS FOR ALL OF THE FOREGOING TOOLS; DRIVING YOKES FOR DIE STOCKS, STRAP WRENCHES AND PIPE REAMERS.

Claims use on pipe wrenches, monkey wrenches since June 1923; on compound leverage wrenches, chain pipe wrenches, rubber grips for wrench handles since May 11, 1928; on pipe vises, bench vises, kit vises, post vises, pipe bending vises, chain vises and vise stands since Sept. 29, 1926; on pipe and tubing cutters and cutter blades since Dec. 11, 1926; on die stocks, ratchet die stocks, threading dies, ratchet dies and three-way dies since Mar. 8, 1929; on extractors including bolt, screw and nipple extractors, extractor kits, drills and drill guides and wrenches for extractors since Feb. 26, 1936; on driving yokes for die stocks since Jan. 11, 1939; on strap wrenches since Feb. 24, 1943; and on pipe reamers since Nov. 1, 1943.

## CLASS 26

## MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 477,697. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill. Filed Dec. 18, 1944.

THERMOLANCE

FOR ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF.

Claims use since on or about May 1929.

Ser. No. 480,860. EITEL-MCCULLOUGH, INC., San Bruno, Calif. Filed Mar. 13, 1945.

Eimac

FOR ELECTRICAL TYPE PRESSURE GAUGES.
Claims use since June 1943.

Ser. No. 481,344. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Mar. 26, 1945.

ALEMITE

FOR ELECTRONIC APPARATUS FOR INDICATING CONDITIONS OF BALANCE OR UNBALANCE IN AUTOMOTIVE WHEELS, AND FOR INDICATING SPECIFIC POINTS AND DEGREES OF SUCH UNBALANCE THEREIN.
Claims use since July 7, 1943.

Ser. No. 482,847. MULLINS MANUFACTURING CORPORATION, Salem and Warren, Ohio. Filed May 1, 1945.

PLAN-O-PRICER

The word "Pricer" is disclaimed apart from the mark as shown.
FOR SLIDE, CALCULATING, OR COMPUTING RULES FOR COMPUTING THE NUMBER AND SIZES OF STANDARD KITCHEN UNITS WHICH MAY BE PLACED IN A SELECTED WALL SPACE.
Claims use since Apr. 21, 1945.

Ser. No. 485,491. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed July 6, 1945.

PHOTOFLURE

FOR PHOTOGRAPHIC FILM.
Claims use since June 22, 1945.

Ser. No. 483,355. WESTON ELECTRICAL INSTRUMENT CORPORATION, Newark, N. J. Filed May 14, 1945.

SPHERSCALE

FOR DIRECT CURRENT ELECTRICAL INSTRUMENTS OF THE CROSSED POINTER TYPE ADAPTED FOR AIRCRAFT USE—NAMELY, FLIGHT INDICATORS, BLIND FLYING INSTRUMENTS, AND LANDING INDICATORS.
Claims use since Apr. 2, 1945.

Ser. No. 482,643. WICKES BROS., Saginaw, Mich. Filed May 21, 1945.

SIMPLEX

FOR BLUE PRINTING MACHINES.
Claims use since Aug. 9, 1938.

## CLASS 28

## JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 478,851. BURR, PATTERSON & AULD COMPANY, Detroit, Mich. Filed Jan. 22, 1945.



FOR RINGS, BRACELETS, CHARMS, AND FRATERNITY BADGES.
Claims use since Jan. 1, 1922.

## CLASS 29

## BROOMS, BRUSHES, AND DUSTERS

Ser. No. 487,365. HERBA, INC., New York, N. Y. Filed Aug. 21, 1945.

Herba

FOR HAIR BRUSHES, TOOTH BRUSHES, SHAVING BRUSHES, CLOTHING BRUSHES, AND POWDER PUFFS.
Claims use since Aug. 13, 1943.

## CLASS 30

## CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 483,202. AMOGES CHINA CO. INC., Dentsville, Trenton, N. J. Filed May 11, 1945.

Amoges

FOR DECORATED CHINAWARE—NAMELY, VASES, URNS, BOWLS, PERFUME BOTTLES AND JARS, CANDY BOXES, APOTHECARY JARS, AND FLOWER POTS.
Claims use since May 15, 1944.



## CLASS 32

## FURNITURE AND UPHOLSTERY

Ser. No. 470,436. CAMDEN FURNITURE COMPANY, Camden, Ark. Filed May 20, 1944.

PLASTIWEAVE

FOR HOUSEHOLD FURNITURE, MADE PARTIALLY OR WHOLLY OF PLASTICS—NAMELY, BEDS, DRESSERS, TABLES, VANITY AND DRESSING TABLES, VANITIES, CHEST OF DRAWERS, BENCHES, CHIFFOROBES, NIGHT STANDS, BUFFETS, CHAIRS, CORNER, BRACKET AND WALL SHELVES OF THE SUSPENSION TYPE, WALL BRACKETS, DESKS, CLOTHES AND CHINA CABINETS, END TABLES, DINING ROOM TABLES AND CABINETS, AND SERVING TABLES.
Claims use since Apr. 20, 1944.

Ser. No. 471,141. MAYNARD W. WELLS, Elkhart, Ind. Filed June 10, 1944.

DA-NURSE

FOR TRAY-LIKE DEVICE ADAPTED TO BE PLACED BEFORE A BABY WHEN SITTING UPON AN ADULT'S SEAT, FOR THE PURPOSE OF HOLDING PLAY TOYS AND FOOD DISHES, AND FOR TRAINING THE BABY TO "SIT UP" BY ITSELF.
Claims use since May 15, 1944.

Ser. No. 477,765. THE GLOBE-WERNICKE CO., Norwood, Ohio. Filed Dec. 20, 1944. Under section 5b of the act of 1905 as amended in 1920.

Globe Wernicke CINCINNATI

Applicant disclaims the name "Cincinnati" apart from the mark as shown.
FOR WOOD DESK TRAYS, STEEL DESK TRAYS, FILING SHELVES, LEGAL BLANK CASES, SWINGING DESK SHELVES, DESK STATIONERY CABINETS, BOOK ENDS, DESKS, TABLES, CHAIRS, FILING CABINETS, CUPBOARDS, LIBRARY FURNITURE, COSTUMERS, TELEPHONE STANDS, BOOKCASES, AND PARTITION RAILINGS.
Claims use since July 1, 1938.

Ser. No. 485,858. CROWN CITY MATTRESS WORKS, Pasadena, Calif. Filed July 16, 1945.

Crown DeLuxe

The term "De Luxe" is disclaimed apart from the mark shown.
FOR MATTRESSES.
Claims use since Mar. 17, 1945.

Ser. No. 485,859. CROWN CITY MATTRESS WORKS, Pasadena, Calif. Filed July 16, 1945.

Crown Hotel

FOR MATTRESSES.
Claims use since Mar. 17, 1945.

Ser. No. 485,860. CROWN CITY MATTRESS WORKS, Pasadena, Calif. Filed July 16, 1945.

Crown Rest

FOR MATTRESSES.
Claims use since Mar. 17, 1945.

## CLASS 34

## HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 480,746. THE DURIRON COMPANY, INC., Dayton, Ohio. Filed Mar. 10, 1945.

DURCO

FOR EXHAUST FANS, INCLUDING ELECTRICALLY OPERATED EXHAUST FANS, AND HEAT EXCHANGERS FOR HEATING AND COOLING CORROSIVE LIQUIDS.
Claims use since January 1945.

## CLASS 36

## MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 484,255. IDEAL RECORDS COMPANY, New York, N. Y. Filed June 7, 1945.

IDEAL

FOR PHONOGRAPH RECORDS AND PHONOGRAPH RECORD BLANKS.
Claims use since Mar. 15, 1945.

Ser. No. 486,229. RALPH F. STILWELL, Carmi, Ill. Filed July 24, 1945.

VIBETTE by STILWELL

No claim is made to the words "by Stilwell" apart from the mark shown.
FOR MUSICAL INSTRUMENTS OF THE XYLOPHONE TYPE.
Claims use since June 19, 1945.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 472,248. THE MARTIN CANTINE COMPANY, Saugerties, N. Y. Filed July 14, 1944.

ASHOKAN

Applicant is the owner of Reg. No. 176,431.
FOR ENAMELED BOOK PAPER.
Claims use since 1906.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 477,345. ADMIRAL CORPORATION, Chicago, Ill. Filed Dec. 9, 1944.

*Admiral*

FOR PUBLICATION COMPRISING A HOUSE ORGAN APPEARING MONTHLY.
Claims use since Jan. 16, 1939.

Ser. No. 483,829. EDDY J. MILLER, doing business as E. J. Miller Feature Company, Evansville, Ind. Filed May 26, 1945.

EGGHEAD

FOR COMIC STRIP.
Claims use since Feb. 28, 1945.

Ser. No. 487,059. UNITED FEATURE SYNDICATE, INC., New York, N. Y. Filed Aug. 11, 1945.

WILLIE AND JOE

FOR COMIC DRAWINGS, PUBLISHED IN DAILY AND SUNDAY NEWSPAPERS.
Claims use since July 30, 1945.

## CLASS 39

### CLOTHING

Ser. No. 483,349. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed May 14, 1945.

INSERT-O-FLEX

Applicant disclaims the right to the exclusive use of the word "Insert," which appears on the drawing.
FOR BOOTS, SHOES, AND SLIPPERS, MADE OF LEATHER, RUBBER, AND FABRIC AND COMBINATIONS THEREOF.
Claims use since Feb. 3, 1943.

Ser. No. 485,402. DAVID CRYSTAL INC., New York, N. Y. Filed July 3, 1945.

SHEERALINE

FOR LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, AND SKIRTS.
Claims use since September 1943.

Ser. No. 485,406. FRIEDMAN & REISS, New York, N. Y. Filed July 3, 1945.

TROPICALEEN

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since January 1945.

Ser. No. 485,892. TIMMY TOGS COMPANY, Philadelphia, Pa. Filed July 16, 1945.

GOODLAD

FOR BOYS' WASH AND DRESS SUITS, BLOUSES, OUTER SHIRTS, PAJAMAS, SLACKS, SLACK SUITS, AND SPORT COATS.
Claims use since June 15, 1945.



Ser. No. 486,710. ELIZABETH BLACKWELL, Glendale, Calif. Filed Aug. 4, 1945.

LIZ

FOR KNITTED GARMENTS FOR CHILDREN, SPECIFICALLY MITTENS, SWEATERS, AND SUN SUITS.
Claims use since Nov. 1, 1943.

## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 472,007. S. & B. LEDERER COMPANY, Providence, R. I. Filed July 8, 1944.

SLICK

FOR WRIST WATCH STRAPS AND BANDS.
Claims use since Jan. 1, 1940.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 486,891. FOREMAN FABRICS INC., New York, N. Y. Filed Aug. 8, 1945.

CHATTERTWIST

FOR PIECE GOODS OF RAYON YARNS.
Claims use since August 1941.

Ser. No. 487,206. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed Aug. 17, 1945.

DANMASTER

FOR PIECE GOODS OF COTTON, RAYON, WOOL, OR MIXTURES THEREOF.
Claims use since July 30, 1945.

Ser. No. 487,592. BENROSE FABRICS CORPORATION, New York, N. Y. Filed Aug. 27, 1945.

*Surf 'n Sun*

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF.
Claims use since Feb. 8, 1938.

## CLASS 43

### THREAD AND YARN

Ser. No. 482,781. ANGLO-CONTINENTAL WOOL COMPANY LIMITED, Bradford, England. Filed Apr. 30, 1945.




The picture of the boy shown in the drawing is fanciful.
FOR HAND KNITTING YARNS.
Claims use since Sept. 1, 1944.

Ser. No. 482,914. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed May 3, 1945.

AVARON

FOR YARNS, THREADS AND TWISTED SYNTHETIC FIBERS AND FILAMENTS IN THE NATURE OF YARNS AND THREADS ADAPTED TO BE USED IN MAKING FABRICS.
Claims use since Mar. 23, 1945.

Ser. No. 482,915. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed May 3, 1945.

AVICOR

FOR YARNS, THREADS AND TWISTED SYNTHETIC FIBERS AND FILAMENTS IN THE NATURE OF YARNS AND THREADS ADAPTED TO BE USED IN MAKING FABRICS.
Claims use since Mar. 23, 1945.

Ser. No. 485,403. FALLS YARN MILLS, Woonsocket, R. I. Filed July 3, 1945.

*Fallspun*

FOR YARNS OF WOOL AND OTHER FIBRES OR MIXTURES THEREOF.
Claims use since Mar. 26, 1945.

Ser. No. 485,866. HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed July 16, 1945.

LOFTEEN

FOR WOOL YARN.
Claims use since June 4, 1945.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 485,679. BEEZEY PRODUCTS, INC., New York, N. Y. Filed July 11, 1945.

ZOO-ZAG

FOR NURSING BOTTLE HOLDERS OPENABLE INTO A PILLOW OR HEADREST FOR AN INFANT.
Claims use since Jan. 29, 1944.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 472,592. SWISS-AMERICAN IMPORTING CO., St. Louis, Mo. Filed July 24, 1944.

Dutch Garden

The word "Dutch" is disclaimed apart from the mark.
FOR GROCERIES—NAMELY, MUSHROOM SAUCE, TURKEY LIVER PATE, CHICKEN LIVER PATE, SMALL SOUR ONIONS, SWEET PICKLE CHIPS, SWEET PEPPER RELISH, DILL PICKLES, SPAGHETTI IN ITALIAN STYLE SAUCE, EGG NOODLE DINNER, MOSTACCIOLI (A PREPARED ANTIPASTO FOOD) IN ITALIAN STYLE SAUCE, PREPARED MUSTARD, CHEESES, AND CHEESE SPREADS.
Claims use since January 1942.

Ser. No. 475,183. ALBERT ASHER, doing business as Albert Asher Co., San Francisco, Calif. Filed Oct. 11, 1944.

HONEY

FOR CANNED FRUITS; DRIED FRUITS; AND FRESH FRUIT—NAMELY, CANNED DECIDUOUS FRUITS, DRIED DECIDUOUS FRUITS, AND FRESH DECIDUOUS FRUITS.
Claims use since Jan. 1, 1907.

Ser. No. 477,296. THOMAS L. BROWN, LTD., Kansas City, Mo. Filed Dec. 11, 1944.

ZESTEE

FOR FRESH MEAT IN THE NATURE OF SPECIALLY PREPARED LOIN STRIPS OF BEEF, PREPARED BY MOLDING, FREEZING, AND THINLY SLICING RELATIVELY LARGE, BONED PIECES THEREOF.
Claims use since Dec. 4, 1944.

Ser. No. 482,606. JANE ALEXANDER, Valley Stream, N. Y. Filed Apr. 26, 1945.




FOR FRESH, CANNED, CANDIED, AND DRIED APPLES, PEARS, PEACHES, APRICOTS, AND PLUMS, FRUIT PRESERVES, AND CANDIES.
Claims use since Mar. 21, 1944.

Ser. No. 484,535. 40-FATHOM FISH, INC., New York, N. Y. Filed June 21, 1945.

40-Fathom

FOR FISH AND SHELLFISH PRODUCTS—NAMELY, FRESH FISH, CANNED FISH AND SHELLFISH, FROZEN FISH AND SHELLFISH, AND CANNED AND FROZEN FISH CAKES.
Claims use since 1939.

Ser. No. 484,902. OLYMPIA BREWING COMPANY, Olympia, Wash. Filed June 22, 1945.

BRUEAST

FOR DRIED BREWER'S YEAST FOR USE IN ENRICHING FOOD FOR HUMAN CONSUMPTION, IN TABLET AND IN POWDER FORM.
Claims use since Nov. 15, 1943.



Ser. No. 485,075. ROBERT H. DART, Sacramento, Calif. Filed June 27, 1945.

DART GOLD

Applicant is the owner of Reg. Nos. 240,515 and 280,269.
FOR FRESH DECIDUOUS FRUIT.
Claims use since June 8, 1945.

Ser. No. 485,654. SANGUINETTI FRUIT COMPANY, Lodi, Calif. Filed July 10, 1945.

MEL-WIN

FOR FRESH VEGETABLES—NAMELY, FRESH TOMATOES.
Claims use since August 1944.

Ser. No. 485,671. CHARLES M. ZILEN, doing business as Zilen Citrus Co., Riverside, Calif. Filed July 10, 1945.

Riverside Prince

Applicant is the owner of Reg. No. 392,553. No claim is made to the name "Riverside" apart from the mark as shown, although the applicant waives no common law rights to the same.
FOR FRESH CITRUS FRUITS.
Claims use since Aug. 17, 1941.

Ser. No. 485,913. IMPORTED DELICACIES CO., New York, N. Y. Filed July 17, 1945.

Pachin

FOR CANDY DROPS, FILLED DROPS, AND PEPPERMINT PASTILLES.
Claims use since June 7, 1945.

Ser. No. 486,024. BAY COUNTRY FOODS, INC., Easton, Md. Filed July 20, 1945.

Bay Country

FOR CANNED VEGETABLES.
Claims use since June 28, 1945.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 484,640. RHODES PLASTIC PRODUCTS, INC., New York, N. Y. Filed June 16, 1945.

"Romance"

FOR GARMENT HANGERS MADE OF PLASTICS.
Claims use since May 29, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

## NOVEMBER 6, 1945

417,592. CANNED VEGETABLES. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn.
Filed January 19, 1943. Serial No. 458,017. PUBLISHED AUGUST 21, 1945. Class 46.

417,593. SMALL ASTRONOMICAL INSTRUMENT FOR AID IN NAVIGATION. JOHN A. MILLAR, East Orange, N. J.
Filed April 13, 1943. Serial No. 459,845. PUBLISHED AUGUST 28, 1945. Class 26.

417,594. CLEANSING PREPARATION FOR GENERAL HOUSEHOLD, TOILET, AND LAUNDRY USE. GERALDINE F. BROWN, doing business as G. F. Brown Company, Philadelphia, Pa.
Filed November 9, 1943. Serial No. 464,848. PUBLISHED AUGUST 21, 1945. Class 4.

417,595. SHAVING LOTION ADAPTED FOR SOFTENING THE BEARD AND CONDITIONING THE FACE TO FACILITATE SHAVING, BATH SOAP, HAND SOAP, SHAVING SOAP, SHAVING CREAM, AND SHAMPOO SOAP IN CAKE OR BAR FORM. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J.
Filed March 1, 1944, Serial No. 467,893. PUBLISHED AUGUST 21, 1945. Class 4.

417,596. FOLDED OR TWISTED PAPER YARN. MILLITT CORPORATION, New York, N. Y.
Filed March 22, 1944. Serial No. 468,530. PUBLISHED AUGUST 21, 1945. Class 43.

417,597. CIRCUIT TESTER FOR TESTING ELECTRICAL CURRENTS FLOWING IN THE ELECTRICAL CIRCUITS ON AIRCRAFT. UNITED HYDRAULIC MFG. CO., Los Angeles, Calif.
Filed May 1, 1944. Serial No. 469,854. PUBLISHED AUGUST 28, 1945. Class 26.

417,598. ANIMAL FEED COMPOUND FOR RUMINANTS CONTAINING UREA, WHEAT MIXED FEED AND DOLOMITIC LIMESTONE. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed June 8, 1944. Serial No. 471,025. PUBLISHED AUGUST 28, 1945. Class 46.

417,599. DEFATTED SUNFLOWER SEEDS, FORMING A STABLE FOOD HAVING A HIGH VITAMIN AND FOOD ENERGY CONTENT FIT FOR HUMAN CONSUMPTION AND ADAPTED TO BE USED AS A TASTY ADDITIVE FOR CONFECTIONS, FLOURS, AND BAKERY PRODUCTS. VIO BIN CORPORATION, Monticello, Ill.
Filed June 23, 1944. Serial No. 471,581. PUBLISHED AUGUST 28, 1945. Class 46.

417,600. DENTAL PLASTER OF PARIS. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill.
Filed July 21, 1944. Serial No. 472,444. PUBLISHED AUGUST 28, 1945. Class 44.

417,601. READY MIXED PAINTS. THE M. W. KELLOGG COMPANY, Jersey City, N. J., and New York, N. Y.
Filed September 12, 1944. Serial No. 474,125. PUBLISHED AUGUST 21, 1945. Class 16.

417,602. COLORED, TRANSLUCENT, AND NON-TRANSPARENT ADHESIVE TAPES USED FOR EXAMPLE FOR MASKING AND MENDING. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J.
Filed September 21, 1944. Serial No. 474,450. PUBLISHED AUGUST 28, 1945. Class 5.

417,603. INKS. JAMES SCOTT ST. BARBE BAKER, doing business as James Scott Manufacturing Company, London, England.
Filed September 22, 1944. Serial No. 474,474. PUBLISHED AUGUST 21, 1945. Class 11.

417,604. AWNINGS AND TENTS. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed October 9, 1944. Serial No. 475,110. PUBLISHED AUGUST 28, 1945. Class 50.

417,605. POCKETBOOKS, PORTFOLIOS, AND PURSES. KADIN BROS. INC., New York, N. Y.
Filed December 4, 1944. Serial No. 477,196. PUBLISHED AUGUST 28, 1945. Class 3.

417,606. STEEL PLATES, SHEETS, BARS, INGOTS, AND BILLETS. THE AMERICAN TANK AND FABRICATING COMPANY, Cleveland, Ohio.
Filed December 9, 1944. Serial No. 477,846. PUBLISHED AUGUST 28, 1945. Class 14.

417,607. PRETZELS; DRIED CURRANTS, RAISINS, PRUNES, DATES; GLACED FRUITS; UNPOPPED POPCORN, SALTED AND UNSALTED NUTS; ETC. KRAMBO FOOD STORES, INCORPORATED, Oshkosh, Wis.
Filed December 11, 1944. Serial No. 477,420. PUBLISHED AUGUST 28, 1945. Class 46.

417,608. TYPEWRITER SUPPLIES—NAMELY, DUPLICATOR INKS, CARBON PAPER AND TYPEWRITER AND ADDING MACHINE RIBBONS. BELL D. BAILLES, doing business as B. D. B. Typewriter Supply Works, New York, N. Y.
Filed January 26, 1945. Serial No. 479,025. PUBLISHED AUGUST 21, 1945. Class 11.

417,609. PLASTIC PRODUCTS—NAMELY, SINK STRAINERS AND DUST PANS. PLASTIC DIE AND TOOL CORPORATION, Los Angeles, Calif.
Filed January 26, 1945. Serial No. 479,047. PUBLISHED AUGUST 21, 1945. Class 13.

417,610. POTTERY FIGURINES, HAND PAINTED AND ORNAMENTAL CHINAWARE FIGURINES, CHINAWARE FIGURINES, AND PLAQUES. IMPERIAL BAKER CO., Brooklyn, N. Y.
Filed January 27, 1945. Serial No. 479,074. PUBLISHED AUGUST 28, 1945. Class 50.

417,611. WALLETS. NATIONAL RING & LEATHER CORPORATION, Mansfield, Ohio.
Filed February 5, 1945. Serial No. 479,439. PUBLISHED AUGUST 28, 1945. Class 3.

417,612. OILSTONES, ABRASIVE STONES, CLEANING STONES, SHARPENING STONES, HONES, WHETSTONES, ETC. NORTON COMPANY, Worcester, Mass.
Filed February 8, 1945. Serial No. 479,594. PUBLISHED AUGUST 21, 1945. Class 4.

417,613. PLAYING CARDS. LAWRENCE J. FLYNN, doing business as Subscription Playing Cards, Boston, Mass.
Filed March 17, 1945. Serial No. 481,015. PUBLISHED AUGUST 28, 1945. Class 22.

417,614. ARTIFICIAL LEATHER HAVING LEATHER FIBER CONTENT. HI-GOAL PRODUCTS CORPORATION, New York, N. Y.
Filed March 17, 1945. Serial No. 481,024. PUBLISHED AUGUST 28, 1945. Class 50.

417,615. FRUIT CAKE. CALIFORNIA FRUITAGES, INC., White Plains, N. Y.
Filed March 19, 1945. Serial No. 481,058. PUBLISHED AUGUST 28, 1945. Class 46.





417,616. POWDERED GRAVY MIX, POWDERED SOUP MIXES, GRANULATED BOUILLON CUBES, AND CAVIAR. ROMANOFF CAVIAR COMPANY, New York, N. Y.
Filed March 19, 1945. Serial No. 481,083. PUBLISHED AUGUST 28, 1945. Class 46.

417,617. IRON AND STEEL CASTINGS. THE NATIONAL ROLL & FOUNDRY COMPANY, Avonmore, Pa.
Filed March 23, 1945. Serial No. 481,236. PUBLISHED AUGUST 21, 1945. Class 14.

417,618. PREPARATIONS FOR REMOVING PAINTS, LACQUERS, ENAMELS AND VARNISHES FROM VARIOUS SURFACES. FIDELITY CHEMICAL PRODUCTS CORP., Newark, N. J.
Filed March 29, 1945. Serial No. 481,472. PUBLISHED AUGUST 14, 1945. Class 16.

417,619. ASPHALTIC PAINTS AND ASPHALTIC PRIMING AND SEALING PAINTS. CORK IMPORT CORPORATION, New York, N. Y.
Filed March 30, 1945. Serial No. 481,523. PUBLISHED AUGUST 21, 1945. Class 16.

417,620. TABLE SYRUPS AND MOLASSES. S. J. GIANELLONI, Jr., Baton Rouge, La.
Filed March 30, 1945. Serial No. 481,533. PUBLISHED AUGUST 28, 1945. Class 46.

417,621. GENERAL LINE OF CAKES AND COOKIES. BURTON & DENYER, Waukegan, Ill.
Filed April 2, 1945. Serial No. 481,610. PUBLISHED AUGUST 28, 1945. Class 46.

417,622. COMPOSITE METAL WIRES. CALLITE TUNGSTEN CORPORATION, Union City, N. J.
Filed April 3, 1945. Serial No. 481,663. PUBLISHED AUGUST 21, 1945. Class 14.

417,623. STEEL FORGINGS. HEPPENSTALL COMPANY, Pittsburgh, Pa.
Filed April 4, 1945. Serial No. 481,705. PUBLISHED AUGUST 14, 1945. Class 14.

417,624. FABRICS IN THE PIECE CONSISTING OF WOOL, SILK, COTTON, AND ARTIFICIAL FIBRES AND MIXTURES THEREOF. ROSENSTEIN BROS., Paterson, N. J.
Filed April 4, 1945. Serial No. 481,716. PUBLISHED AUGUST 21, 1945. Class 42.

417,625. METAL POLISH. BoCo COMPANY, Cleveland, Ohio.
Filed April 7, 1945. Serial No. 481,831. PUBLISHED AUGUST 21, 1945. Class 4.

417,626. BOMBS. ZERO HOUR BOMB COMPANY, Tulsa, Okla.
Filed April 6, 1945. Serial No. 481,824. PUBLISHED AUGUST 28, 1945. Class 9.

417,627. PREPARED PAINTS AND GLAZING COMPOUNDS IN THE NATURE OF PUTTY. THE DAD & LAD CO., New Lenox, Ill.
Filed April 10, 1945. Serial No. 481,944. PUBLISHED AUGUST 28, 1945. Class 16.

417,628. PREPARATION FOR CLEANING PAINTED AND VARNISHED SURFACES, UPHOLSTERY, RUGS, LINOLEUM, TILE, PORCELAIN, AUTOMOBILES, DISHES, FABRICS, CLOTHING, AND SHOES. ROBERT H. PRICE, doing business as Price Detergent Co., Shelton, Wash.
Filed April 20, 1945. Serial No. 482,394. PUBLISHED AUGUST 21, 1945. Class 4.

417,629. BEARING METALS, CORED AND SOLID BARS, GEAR BLANKS, CASTINGS AND DRAWN RODS, ALL MADE OF BRONZE. SUMET CORPORATION, Buffalo, N. Y.
Filed April 20, 1945. Serial No. 482,401. PUBLISHED AUGUST 28, 1945. Class 14.

417,630. TOOL STEEL. EDGAR ALLEN & COMPANY LIMITED, Sheffield, England.
Filed April 21, 1945. Serial No. 482,409. PUBLISHED AUGUST 28, 1945. Class 14.

417,631. BOOT POLISH, LIQUID WHITE SHOE CREAM, AND SHOE SOAP. SILVERITE GUTTERMAN CO., Boston, Mass.
Filed April 24, 1945. Serial No. 482,556. PUBLISHED AUGUST 21, 1945. Class 4.

417,632. ALUMINUM COOKING UTENSILS. MAYFAIR ALUMINUM COMPANY, New York, N. Y.
Filed April 26, 1945. Serial No. 482,633. PUBLISHED AUGUST 21, 1945. Class 13.

417,633. LUBRICANT USED AS A COOLANT FOR DIAMOND WHEELS AND HAVING CLEANSING PROPERTIES. ROBERT J. WALTON, doing business as Walton Tool Company, Chicago, Ill.
Filed April 27, 1945. Serial No. 482,718. PUBLISHED AUGUST 21, 1945. Class 15.

417,634. CITRUS JUICES FOR FOOD PURPOSES, AND FRESH CITRUS FRUITS. MCDONALD AND OLLIFF, INC., Wauchula, Fla.
Filed April 28, 1945. Serial No. 482,754. PUBLISHED AUGUST 14, 1945. Class 46.

417,635. FOUNTAIN PENS AND MECHANICAL PENCILS. EVERSHARP, INC., Chicago, Ill.
Filed April 30, 1945. Serial No. 482,794. PUBLISHED AUGUST 28, 1945. Class 37.

417,636. HASPS. MASTER LOCK COMPANY, Milwaukee, Wis.
Filed May 2, 1945. Serial No. 482,884. PUBLISHED AUGUST 21, 1945. Class 13.

417,637. POWDERED SEASONING CONTAINING HYDROLYZED PLANT PROTEIN, DEHYDRATED POWDERED FLAVORING VEGETABLES AND PURE SEASONING SPICES FOR USE ON MEATS, SEAFOODS, SPAGHETTI, BAKED BEANS, SOUPS, AND SIMILAR FOODS. PETER VOSS, doing business as Tasty Food Products Corp., Washington, D. C.
Filed May 2, 1945. Serial No. 482,907. PUBLISHED AUGUST 28, 1945. Class 46.

417,638. BOARD GAME PLAYED WITH MOVABLE PIECES. E. S. LOWE COMPANY, INC., New York, N. Y.
Filed May 3, 1945. Serial No. 482,936. PUBLISHED AUGUST 28, 1945. Class 22.

417,639. VULCANIZABLE TIRE RETREAD STOCK COMMONLY REFERRED TO IN THE TRADE AS CAMELBACK. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed May 7, 1945. Serial No. 483,056. PUBLISHED AUGUST 28, 1945. Class 35.

417,640. METAL CHAINS FOR SPROCKETS AND THE LIKE AND PARTS THEREOF INCLUDING SIDE LINKS, ANTI-BACKBEND LINKS, AND PINTLES. MORSE CHAIN COMPANY, Ithaca, N. Y.
Filed May 7, 1945. Serial No. 483,076. PUBLISHED AUGUST 21, 1945. Class 13.

417,641. AIR MAIL PAPER, AIR MAIL ENVELOPES, PRINTING PAPER, PAPETERIES, MAILING ENVELOPES, WRITING PAPER, TABLETS, WRAPPING PAPER, AND DUPLICATING PAPERS. AGENCY PAPER COMPANY, New York, N. Y.
Filed May 9, 1945. Serial No. 483,128. PUBLISHED AUGUST 28, 1945. Class 37.

417,642. COMBINATION FERTILIZER AND SOIL CONDITIONER. ATKINS & DURBROW, INC., New York, N. Y.
Filed May 10, 1945. Serial No. 483,164. PUBLISHED AUGUST 28, 1945. Class 10.

417,643. LITHOGRAPHIC CAMERAS, PORTABLE CAMERAS, AND PRECISION CAMERAS. AMERICAN TYPE FOUNDERS SALES CORPORATION, Elizabeth, N. J. Filed May 19, 1945. Serial No. 483,564. PUBLISHED AUGUST 14, 1945. Class 26.

417,644. UNFINISHED AND PARTLY FINISHED LEATHER MADE FROM KID, GOAT, CALF, AND COWHIDE. ALLIED KID COMPANY, Boston, Mass. Filed May 21, 1945. Serial No. 483,599. PUBLISHED AUGUST 28, 1945. Class 1.

417,645. WAX COMPOSITION USED IN THE MANUFACTURE OF CANDLES AND MATCHES. ALFRED AUFHAUSER, doing business as Industrial Raw Materials Company, New York, N. Y. Filed May 25, 1945. Serial No. 483,755. PUBLISHED AUGUST 21, 1945. Class 15.

417,646. APPARATUS FOR CANDLING, GRADING, AND HANDLING EGGS. OTTO NIEDERER SONS, INC., Titusville, N. J. Filed May 28, 1945. Serial No. 483,867. PUBLISHED AUGUST 28, 1945. Class 26.

417,647. FRESH CITRUS FRUITS. CAMARILLO CITRUS ASSOCIATION, Camarillo, Calif. Filed June 4, 1945. Serial No. 484,118. PUBLISHED AUGUST 28, 1945. Class 46.

417,648. FRESH VEGETABLES. T. J. MATULICH, doing business as T. J. Matulich Co., Watsonville, Calif. Filed June 4, 1945. Serial No. 484,140. PUBLISHED AUGUST 28, 1945. Class 46.

417,649. LIGHT, MEDIUM, AND HEAVY COMPOUNDED OIL USED AS AN ENERGIZER FOR CUTTING OILS, A STRAIGHT CUTTING OIL AND A GRINDING OIL. SINCLAIR REFINING COMPANY, New York, N. Y. Filed June 5, 1945. Serial No. 484,186. PUBLISHED AUGUST 28, 1945. Class 15.

417,650. APPLE SYRUP FOR USE ON FLAPJACKS AND WAFFLES, AS A TOPPING FOR DESSERTS AND ICE CREAM, AND AS A FLAVORING FOR FOODS AND FOOD BEVERAGES. ARNOLD KNEITEL, doing business as Brighton Products Company, New York, N. Y. Filed June 7, 1945. Serial No. 484,262. PUBLISHED AUGUST 28, 1945. Class 46.

417,651. MATTRESSES. SIMMONS COMPANY, New York, N. Y. Filed June 8, 1945. Serial No. 484,326. PUBLISHED AUGUST 28, 1945. Class 32.

417,652. FLAVORINGS AND FONDANTS FOR FOOD PURPOSES—NAMELY, ENGLISH PEPPERMINT, ORANGE EMULSION, LIME ESSENCE, ETC. RODELLE LABORATORIES, INC., Denver, Colo. Filed June 9, 1945. Serial No. 484,361. PUBLISHED AUGUST 28, 1945. Class 46.

417,653. DICE GAME. TOYAD CORPORATION, Pittsburgh, Pa. Filed July 9, 1945. Serial No. 485,616. PUBLISHED AUGUST 28, 1945. Class 22.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

417,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. COLYER, Yuma, Ariz. Filed Jan. 29, 1944. Serial No. 466,981.




FOR FRESH VEGETABLES—NAMELY, LETTUCE, PEAS, BROCCOLI, AND CABBAGE.
Claims use since Dec. 9, 1943.

417,655. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) THE SOUTHERN FOUNDATION, Washington, D. C. Filed Mar. 28, 1944. Serial No. 468,764.

KANT-TANGLE

FOR ROSARIES MADE OF OR PLATED WITH PRECIOUS METAL.
Claims use since Aug. 10, 1943.

417,656. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WINDSOR LLOYD PRODUCTS CO., Philadelphia, Pa. Filed May 27, 1944. Serial No. 470,750.

DUR-ALLOY

FOR AUTOMOBILE MUFFLERS.
Claims use since May 1, 1944.

417,657. (CLASS 32. FURNITURE AND UPHOLSTERY.) CAMDEN FURNITURE COMPANY, Camden, Ark. Filed May 29, 1944. Serial No. 470,755.

PLASTICHEST

FOR CHEST OF DRAWERS.
Claims use since Apr. 20, 1944.

417,658. (CLASS 37. PAPER AND STATIONERY.) A. MARSHALL BELL, doing business as Attorneys Printing Supply Co., San Francisco, Calif. Filed July 26, 1944. Serial No. 472,629.

"Smooth-Erase Bond"

FOR LEGAL PAPER.
Claims use since Mar. 1, 1944.



417,659. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) C. J. BATES & SON, Chester, Conn. Filed Aug. 23, 1944. Serial No. 473,523.

SHEAR CUT

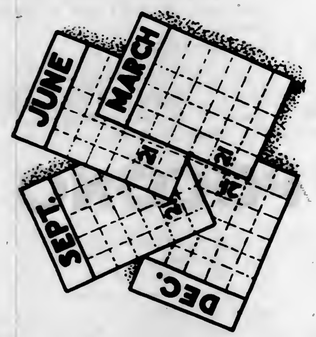
FOR MANICURE ARTICLES—NAMELY, NAIL BRUSHES, NAIL BUFFERS, NAIL FILES, NAIL CLIPPERS, CUTICLE KNIVES, SCISSORS, MANICURE STICKS, TWEEZERS, EMERY BOARDS, PUMICE BOARDS, AND NAIL POLISHERS.
Claims use since May 29, 1944.

417,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. R. GREENBERG, doing business as R. R. Greenberg Co., Reedley, Calif. Filed Oct. 2, 1944. Serial No. 474,797.

JUICY FRUIT

FOR FRESH DECIDUOUS FRUITS.
Claims use since July 5, 1944.

417,661. (CLASS 39. CLOTHING.) COLLEGIATE MANUFACTURING COMPANY, INC., New York, N. Y. Filed Oct. 7, 1944. Serial No. 475,042.




FOR WOMEN'S AND MISSES' NIGHTGOWNS, PAJAMAS, NEGLIGEES, AND SLIPS.
Claims use since Aug. 23, 1944.

417,662. (CLASS 27. HOROLOGICAL INSTRUMENTS.) WARREN TRADING CORP., New York, N. Y. Filed Oct. 16, 1944. Serial No. 475,380.

WARREN

FOR WATCHES.
Claims use since Sept. 1, 1944.

417,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY LANDAU, New York, N. Y. Filed Nov. 13, 1944. Serial No. 476,394.




FOR FROSTED FOODS—NAMELY, FISH, POULTRY, ICE CREAM, CANNED AND FRESH VEGETABLES, AND CANNED AND FRESH FRUITS.
Claims use since Aug. 17, 1944.

417,664. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PAUL WYLER, New York, N. Y. Filed Nov. 21, 1944. Serial No. 476,749.

Wyler

FOR WATCHES, CASED AND UNCASED.
Claims use since 1924.

417,665. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) LESLIE DISTRIBUTING CO., Philadelphia, Pa. Filed Dec. 4, 1944. Serial No. 477,200.

LESLIE

RESERVE

FOR WHISKEY.
Claims use since August 1944.

417,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARLO PANNO FRUIT CO., Pico, Calif. Filed Dec. 9, 1944. Serial No. 477,366.

CALSTATE

FOR FRESH CITRUS FRUITS.
Claims use since Sept. 4, 1944.

417,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PANDA FROSTY FOODS, Los Angeles, Calif. Filed Dec. 18, 1944. Serial No. 477,715.




The picture of the girl is fanciful.
FOR FRESH FROZEN BOYSENBERRIES.
Claims use since June 1, 1944.

417,668. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BERTRAM B. BELLOWS, doing business as "Pronunciation," Toledo, Ohio. Filed Jan. 16, 1945. Serial No. 478,677.

**"PRONUNCIATION"**

FOR A CARD GAME.
Claims use since Aug. 8, 1944.

---

417,669. (CLASS 2. RECEPTACLES.) WILBERT W. HAASE CO., Forest Park, Ill. Filed Feb. 21, 1945. Serial No. 480,068.

Wilbert

FOR BURIAL VAULTS.
Claims use since Dec. 14, 1933.

---

417,670. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RAYENERGY RADIO AND TELEVISION CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 6, 1945. Serial No. 480,552.

RAYENERGY

FOR RADIO RECEIVERS, RADIO TRANSMITTERS; TELEVISION RECEIVERS AND TRANSMITTERS; ELECTRIC BELLS, BUZZERS, AND DOOR CHIMES; ELECTRIC APPLIANCES—NAMELY, HEATERS, TOASTERS, WAFFLE IRONS, IRONS, PERCOLATORS, COOKING STOVES; ELECTRIC LAMPS; ELECTRIC MIXERS; ELECTRIC BROILERS; ELECTRIC HAIR WAVING AND CURLING APPLIANCE FOR HOME USE; ELECTRIC LIGHTING FIXTURES; ELECTRIC ANNUNCIATORS, ELECTRICAL OUTLET BOXES AND CONNECTING PLUGS; ELECTRIC TRANSFORMERS AND CURRENT REGULATORS; AND ELECTRONIC ACTUATORS AND CONTROLLERS.
Claims use since June 22, 1942.

---

417,671. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADA V. MAXWELL, doing business as Maxwell's Prepared Foods, Queens Village, N. Y. Filed Mar. 30, 1945. Serial No. 481,547.

BREADiT

FOR PREPARED BREADING MEAL FOR FRYING CHOPS, CUTLETS, OYSTERS, FISH, OR THE LIKE.
Claims use since on or about Dec. 15, 1939.

417,672. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) PARFAIT, INCORPORATED, Chicago, Ill. Filed Apr. 23, 1945. Serial No. 482,500.

**PARFAIT**

FOR LEATHER COSMETIC BAGS AND PURSE KITS.
Claims use since Apr. 1, 1940.

---

417,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE HUNTER COX, doing business as Cox's, Waco, Tex. Filed May 11, 1945. Serial No. 483,215.

**COX'S**

FOR CANDY AND SALTED PEANUTS.
Claims use since September 1895.

---

417,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. FRED OBRECHT, doing business as Gerard Milk Products Company, Baltimore, Md. Filed May 16, 1945. Serial No. 483,442.

**LACTOMALT**

FOR COMPOSITION OF DRIED BUTTERMILK, DRIED SKIMMED MILK, PROCESSED FEEDING MALT FLOUR (WHEAT MALT, BARLEY MALT, SOY MALT), YEAST AND CRYSTALLIZED RIBOFLAVIN AS AN INGREDIENT IN POULTRY MASHES AND LIVESTOCK FEEDS.
Claims use since October 1941.

---

417,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUSTIN T. BLAKESLEE, Blakeslee, Pa. Filed May 28, 1945. Serial No. 483,841.

**POCONO**

FOR FRESH VEGETABLES.
Claims use since July 1920.

---

417,676. (CLASS 39. CLOTHING.) A. WEISS, doing business as A. Weiss Wholesale Hosiery, Chicago, Ill. Filed May 16, 1945. Serial No. 483,463.

LORD DAWSON

FOR MEN'S HOSIERY.
Claims use since April 1940.



417,677. (CLASS 12. CONSTRUCTION MATERIALS.) TEX-ROCK INSULATION CO., Temple, Tex. Filed June 7, 1945. Serial No. 484,280.

SYMBOL OF QUALITY INSULATION

FOR ROCK WOOL INSULATION FOR BUILDINGS AND HOUSES.
Claims use since Jan. 1, 1943.

417,678. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) VIDAL DISTILLED LIQUORS INC., San Juan, P. R. Filed June 7, 1945. Serial No. 484,283.

Vidal

FOR RUM.
Claims use since Feb. 27, 1941.

## TRADE-MARK REGISTRATIONS RENEWED

45,869. **THE POPULAR MAGAZINE.** MONTHLY MAGAZINE. Registered Aug. 29, 1905. STREET & SMITH. Re-renewed Aug. 29, 1945, to Street & Smith Publications, Inc., New York, N. Y., a corporation of New York. Class 38.

46,167. **SUPERIOR.** COTTON DUCK. Registered Sept. 5, 1905. WELLINGTON, SEARS & CO., Boston, Mass. Renewed Sept. 5, 1945, to Wellington Sears Company, Incorporated, New York, N. Y., a corporation of Massachusetts. Class 42.

46,629. **MORNING JOY.** ROASTED AND GROUND COFFEE. Registered Sept. 26, 1905. NEW ORLEANS COFFEE CO. LTD. Re-renewed Sept. 26, 1945, to American Coffee Company, Inc., New Orleans, La., a corporation of Louisiana. Class 46.

46,735. **"AB CO" AND DRAWING.** SCHOOL TEXT-BOOKS. Registered Oct. 3, 1905. AMERICAN BOOK COMPANY. Re-renewed Oct. 3, 1945, to American Book Company, New York, N. Y., a corporation of New York. Class 38.

47,336. **FLAXO.** TABLE AND STAND COVERS AND TOWELS. NAPKINS, AND DOILIES, EITHER FINISHED OR UNFINISHED, IN THE PIECE OR BOLT. Registered Oct. 31, 1905. RICHARDSON, ROBERTS DRY GOODS CO., St. Joseph, Mo. Re-renewed Oct. 31, 1945, to American Bleached Goods Company, Inc., New York, N. Y., a corporation of Delaware. Class 42.

47,775. **REPRESENTATION OF A COAT-OF-ARMS.** HATS AND CAPS. Registered Nov. 21, 1905. JOHN B. STETSON COMPANY. Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Nov. 21, 1945. Class 39.

47,878. **OLD HONESTY SOAP.** LAUNDRY, TOILET, AND SHAVING SOAPS. Registered Nov. 28, 1905. F. L. FALCK & CO., Allegheny, Pa. Re-renewed Nov. 28, 1945, to F. L. Falck & Company, Pittsburgh, Pa., a partnership. Class 4.

48,402. **CLIMAX.** CARTONS FOR USE ON BOTTLES, LAMP-CHIMNEYS, ELECTRIC-LAMP BULBS, AND OTHER FRAGILE ARTICLES. Registered Dec. 26, 1905. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio, a corporation of Ohio. Re-renewed Dec. 26, 1945. Class 2.

48,460. **GULDEN'S MUSTARD.** MUSTARD. Registered Jan. 2, 1906. CHARLES GULDEN. Re-renewed Jan. 2, 1946, to Charles Gulden, Inc., New York, N. Y., a corporation of New York. Class 46.

194,057. **AFTABATH.** TOILET POWDERS. Registered Jan. 13, 1925. PARFUMERIE ROGER ET GALLET, Paris, France, a corporation of France. Renewed Jan. 13, 1945. Class 6.

199,043. **FORTMASON.** BOOTS AND SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF; NEGLIGEE AND UNDER SHIRTS; HATS, CAPS, AND WOOLEN HELMETS FOR MEN, WOMEN, AND CHILDREN; BELTS FOR PERSONAL WEAR; SWEATERS, COATS, AND JACKETS FOR MEN, WOMEN, AND CHILDREN; BLAZERS, JUMPERS, CARDIGANS, AND CERTAIN OTHER NAMED ARTICLES OF CLOTHING. Registered June 2, 1925. FORTNUM & MASON LIMITED, London, England, a company of Great Britain. Renewed June 2, 1945. Class 39.

200,760. **FERROLITE.** UNMOUNTED ABRASIVE WHEELS FORMED OF ARTIFICIAL ABRASIVE MATERIAL SUCH AS IS THE PRODUCT OF AN ELECTRIC FURNACE. Registered July 7, 1925. E. C. ATKINS AND COMPANY, Indianapolis, Ind., a corporation of Indiana. Renewed July 7, 1945. Class 4.

200,927. **SAFEWAY.** MATCHES. Registered July 14, 1925. SAFEWAY STORES, INCORPORATED, Los Angeles, Calif. Renewed July 14, 1945, to Safeway Stores, Incorporated, Oakland, Calif., a corporation of Maryland. Class 9.

201,624. **CHERUB.** NURSING NIPPLES. Registered Aug. 4, 1925. UNITED DRUG COMPANY. Renewed Aug. 4, 1945, to United-Rexall Drug Company, Boston, Mass., a corporation of Delaware. Class 44.

201,625. **MOTHER GOOSE.** NURSING NIPPLES. Registered Aug. 4, 1925. UNITED DRUG COMPANY. Renewed Aug. 4, 1945, to United-Rexall Drug Company, Boston, Mass., a corporation of Delaware. Class 44.

201,993. **B A.** PIECE BATISTE. Registered Aug. 11, 1925. WELLINGTON, SEARS & COMPANY. Renewed Aug. 11, 1945, to Wellington Sears Company, Incorporated, New York, N. Y., a corporation of Massachusetts. Class 42.

202,895. **COMPLETE STORY.** MAGAZINES ISSUED TWICE MONTHLY. Registered Sept. 8, 1925. STREET & SMITH CORPORATION. Renewed Sept. 8, 1945, to Street & Smith Publications, Inc., New York, N. Y., a corporation of New York. Class 38.

204,003. **SPRATTS.** FOOD SUBSTANCES AND PREPARATIONS FOR DOGS, POULTRY, AND GAME. Registered Oct. 6, 1925. SPRATT'S PATENT LIMITED, London, England. Renewed Oct. 6, 1945, to Spratt's Patent (America) Limited, Newark, N. J., a corporation of Great Britain. Class 46.

204,026. **IL GIGLIO.** HAM. Registered Oct. 6, 1925. VIRDEN PACKING COMPANY, San Francisco, Calif. Renewed Oct. 6, 1945, to Armour and Company, Chicago, Ill., a corporation of Illinois. Class 46.

204,104. **PEER VENT.** HEATING AND VENTILATING UNITS AND CASINGS THEREFOR. Registered Oct. 6, 1925. PEERLESS UNIT VENTILATION CO., INC., Long Island City, N. Y. Renewed Oct. 6, 1945, to McQuay, Inc., Minneapolis, Minn., a corporation of Minnesota. Class 34.

204,433. **REPRESENTATION OF A HOG ETC.** PACKING-HOUSE PRODUCTS, INCLUDING FRESH PORK LOINS, SAUSAGES, AND SAUSAGE MEAT, LARD, HAM, BACON, COOKED TONGUE, AND COOKED HAM. Registered Oct. 20, 1925. JOHN P. SQUIRE & COMPANY, East Cambridge, Mass. Renewed Oct. 20, 1945, to Swift & Company, Chicago, Ill., a corporation of Illinois. Class 46.

204,615. **"TOMMY TUCKER" AND DRAWING.** CANNED FRUITS—NAMELY, CANNED YELLOW CLING PEACHES, CANNED APRICOTS, CANNED ROYAL ANNE CHERRIES, AND CANNED BARTLETT PEARS. Registered Oct. 20, 1925. H. G. PRINCE & CO., Fruitvale, Oakland, Calif. Renewed Oct. 20, 1945, to California Packing Corporation, San Francisco, Calif., a corporation of New York. Class 46.

204,749. **TECLA.** PERFUMES. Registered Oct. 27, 1925. THE TECLA CORPORATION. Renewed Oct. 27, 1945, to Tecla Corp., New York, N. Y., a corporation of New York. Class 6.

204,815. **PEDO-GRAPH.** DEVICE FOR OBTAINING AN IMPRESSION OF THE CONTOUR OF THE SOLE OF THE FOOT. Registered Oct. 27, 1925. SCHOLL MANUFACTURING COMPANY, INC. Renewed Oct. 27, 1945, to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York. Class 26.

204,933. **NORDA.** FACE POWDERS, FACE CREAMS, TOILET WATERS, ROUGES, PERFUMES, HAIR TONICS, HAIR OILS, DENTIFRICES, TOOTH POWDERS, NAIL POLISHES, DEODORIZING PREPARATIONS, SACHET POWDERS, ESSENTIAL AROMATIC OILS SUITABLE FOR THE PRODUCTION OF PERFUMES, AROMATIC CHEMICALS SUITABLE FOR THE PRODUCTION OF PERFUMES, AND AROMATIC TINCTURES SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered Oct. 27, 1925. NORDA ESSENTIAL OIL & CHEMICAL CO., INC., New York, N Y., a corporation of New York. Renewed Oct. 27, 1945. Class 6.

206,116. **SAFEWAY.** BROOMS. Registered Nov. 24, 1925. SAFEWAY STORES, INCORPORATED, Los Angeles, Calif. Renewed Nov. 24, 1945, to Safeway Stores, Incorporated, Oakland, Calif., and Baltimore, Md., a corporation of Maryland. Class 29.

206,256. **FLEX-O-GLASS.** TRANSPARENT, WATERPROOF OILED CLOTH FOR COVERING TENTS, PORCHES, STORM DOORS, WINDOWS, HOTBEDS, OR THE LIKE. Registered Nov. 24, 1925. FLEX-O-GLASS MANUFACTURING COMPANY. Renewed Nov. 24, 1945, to Harold Warp, doing business as Flexo-O-Glass Manufacturing Company, Chicago, Ill. Class 50.

206,567. **QUAL-TY-PAC.** CANNED VEGETABLES. Registered Dec. 8, 1925. CHAS. T. WRIGHTSON & SON. Renewed Dec. 8, 1945, to Chas. T. Wrightson & Son, Inc., Easton, Md., a corporation of Maryland. Class 46.

206,674. **OMNADIN.** PHARMACEUTICAL AND THERAPEUTICAL PREPARATIONS—NAMELY, ANTIGONORRHEICS, ANALGESICS, ANTINEURALGICS, ANTIPYRETICS, ANTIRHEUMATICS, ANTIARTHRITICS, ANÆSTHETICS, ANTIDIABETICS, ANTIHELMINTICS, ANTIDYSPNOICS, ANTISYPHILITICS, ASTRINGENTS, ANTIPARASITICS, ANTICHLOROTICS, ANTIDIARRHEICS, ANTIHYDROTICS, ANTIPHTHISICS, ANTIBLENNHORREICS, ANTISPASMODICS, DIGESTIVES, DESICCATIVES, BIOLOGICAL REAGENTS AND DIAGNOSTICS, DIETETICS, CARDIAC TONICS, DIURETICS, AND OTHER CERTAIN NAMED PREPARATIONS. Registered Dec. 8, 1925. KALLE AND COMPANY, AKTIENGESELLSCHAFT, Biebrich on the Rhine, Germany. Renewed Dec. 8, 1945, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York. Class 6.

206,799. **TOUJOURS MOI.** SACHET, BATH TABLETS, TOILET WATER, TALCUM POWDER, FACE POWDER, AND REFILLS OF FACE POWDER. Registered Dec. 8, 1925. JAY THORPE, INC. Renewed Dec. 8, 1945, to Parfums Corday, Inc., New York, N. Y., a corporation of New York. Class 6.

207,023. **"THE SPIRIT OF YOUTH IN YOUR FEET" AND DRAWING.** LEATHER AND FABRIC BOOTS AND SHOES. Registered Dec. 15, 1925. GROUND GRIPPER SHOE COMPANY, INC., New York, N. Y., and Boston, Mass. Renewed Dec. 15, 1945, to The Selby Shoe Company, Portsmouth, Ohio, a corporation of Ohio. Class 39.

207,040. **"J. R. WATKINS" AND PORTRAIT.** COCOA, ALMOND EXTRACT, LEMON EXTRACTS, ORANGE EXTRACT, VANILLA, VANILLIN AND COUMARIN, BANANA FLAVOR, CINNAMON FLAVOR, MAPLE FLAVOR, MIXED FRUIT FLAVOR, PINEAPPLE FLAVOR, STRAWBERRY FLAVOR, VANILLIN AND COUMARIN FLAVOR, ALLSPICE, CINNAMON, CLOVES, GINGER, MIXED SPICES, MUSTARD, NUTMEG, PEPPER, RED PEPPER, AND SAGE. Registered Dec. 15, 1925. THE J. R. WATKINS COMPANY, Winona, Minn., a corporation of Delaware. Renewed Dec. 15, 1945. Class 46.

207,293. **SUPERBA.** BLACK PIGMENTS FOR PAINTS AND VARNISHES. Registered Dec. 29, 1925. BINNEY & SMITH COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Dec. 29, 1945. Class 16.

207,305. **RICH'S DUTCHCO.** CHOCOLATE PREPARATION USED AT SODA FOUNTAINS AND IN THE MANUFACTURE OF ICE-CREAM. Registered Dec. 29, 1925. CREAM OF CHOCOLATE COMPANY OF AMERICA, Waltham, Mass. Renewed Dec. 29, 1945, to Durkee-Mower, Inc., East Lynn, Mass., a corporation of Massachusetts. Class 46.

207,371. **NORTHLAND.** DRIED FRUITS—NAMELY, DRIED PRUNES. Registered Dec. 29, 1925. ROSENBERG BROS. & CO., San Francisco, Calif., a corporation of California. Renewed Dec. 29, 1945. Class 46.

207,485. **TOTEM.** CIGARS. Registered Jan. 5, 1926. WAITT & BOND, INC., Newark, N. J., a corporation of New Jersey. Renewed Jan. 5, 1946. Class 17.

207,625. **"8 O'CLOCK" AND DRAWING.** WOMEN'S, MISSES' AND CHILDREN'S DRESSES AND APRONS. Registered Jan. 5, 1926. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Jan. 5, 1946. Class 39.

207,807. **QUEEN GLISTA-ERNESTINE.** SALT. Registered Jan. 12, 1926. REMINGTON SALT COMPANY, Ithaca, N. Y. Renewed Jan. 12, 1946, to Worcester Salt Company, New York, N. Y., a corporation of Delaware. Class 46.



207,943. **CITATION FABRICS.** SILK AND COTTON GOODS IN THE PIECE. Registered Jan. 12, 1926. WM. SIMPSON, SONS & CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Jan. 12, 1946. Class 42.

208,229. **BLUE LAKES.** CANNED STRING BEANS. Registered Jan. 19, 1926. TILLMAN & BENDEL, INC., San Francisco, Calif., assignor to Clear Lake Cannery, Inc. Renewed Jan. 19, 1946, to Clear Lake Cannery, Inc., Upper Lake, Calif., a corporation of California. Class 46.

# REISSUES

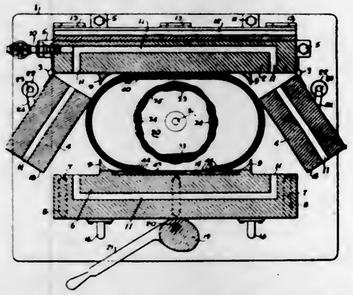
NOVEMBER 6, 1945

22,687

## VENEER MOLDING PROCESS

Clarence U. Gramelspacher, Jasper, Ind., assignor to Jasper Wood Crafters, Inc., Jasper, Ind., a corporation of Indiana

Original No. 2,312,332, dated March 2, 1943, Serial No. 289,697, August 11, 1939. Application for reissue February 14, 1945, Serial No. 577,745
6 Claims. (Cl. 144—309)



1. Apparatus for shaping a plurality of forming individual flexible sheets of wood into an article of predetermined configuration comprising an outer mold adapted to have the sheets disposed therewithin in a form approximating the desired outer form of the completed product, and hold it against expanding outwardly and an inflatable member within the sheets positioned in said outer mold and adapted to exert forming pressure outwardly against said sheets, said inflatable member having walls of varying thickness and disposed with the thickness of the walls inversely proportional to the extent of expansion required in order to exert evenly distributed forming pressure, on the portions of the sheets located at different distances from the center of the article to be formed, and means to expand said inflatable member.

22,688

## THERMAL RESPONSIVE DEVICE

Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,290,963, dated July 28, 1942, Serial No. 389,401, April 19, 1941. Application for reissue July 24, 1943, Serial No. 496,095
4 Claims. (Cl. 297—11)



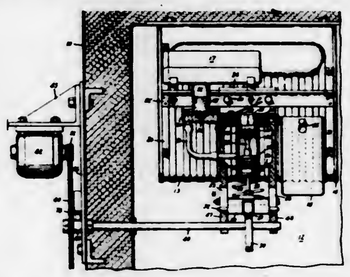
1. A thermally responsive device comprising a metal rod having a solid portion and a portion provided with a longitudinal slot, whereby the application of heat to the rod on one side of said slot will cause flexure of the rod, the junction of said solid and slotted portions having a gradually varying cross sectional area, whereby the localization of stresses at the said junction will be minimized.

22,689

## ICE MAKING APPARATUS

George S. Hill, North East, Pa., assignor to General Electric Company, a corporation of New York

Original No. 2,374,997, dated May 1, 1945, Serial No. 484,726, April 27, 1943. Application for reissue August 20, 1945, Serial No. 611,616
9 Claims. (Cl. 62—2)



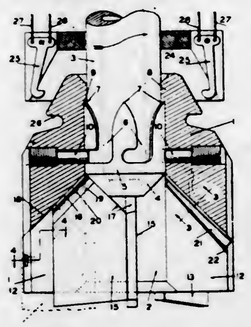
7. An apparatus for making blocks of ice or similar material comprising a cell having heat conducting side walls, means for maintaining in communication with said cell a constant supply of liquid at a level to fill said cell, means for cooling the heat conducting walls of said cell to freeze the portion of said liquid supply adjacent said walls, means for preventing the freezing of said supply of liquid at the bottom of said cell, and means for pushing the frozen block upwardly out of said cell, whereby said cell is refilled from said supply.

22,690

## REMOVABLE DRILLING BIT

Carl C. Koeln, St. Louis County, Mo.

Original No. 2,337,720, dated December 28, 1943, Serial No. 479,185, March 15, 1943. Application for reissue October 14, 1944, Serial No. 558,685
18 Claims. (Cl. 255—61)



1. In a drilling apparatus, a rotary drilling shaft, a drilling bit body slidable on the shaft,

# REISSUES

## NOVEMBER 6, 1945

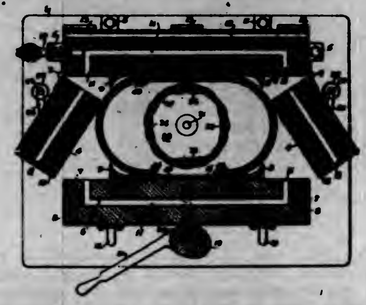
22,687

### VENEER MOLDING PROCESS

Clarence U. Grannenspecher, Jasper, Ind., assignor to Jasper Wood Crafters, Inc., Jasper, Ind., a corporation of Indiana

Original No. 2,212,232, dated March 2, 1943, Serial No. 209,697, August 11, 1938. Application for reissue February 14, 1945, Serial No. 577,745

6 Claims. (Cl. 144—309)



1. Apparatus for shaping a plurality of forming individual flexible sheets of wood into an article of predetermined configuration comprising an outer mold adapted to have the sheets disposed therewithin in a form approximating the desired outer form of the completed product, and hold it against expanding outwardly and an inflatable member within the sheets positioned in said outer mold and adapted to exert forming pressure outwardly against said sheets, said inflatable member having walls of varying thickness and disposed with the thickness of the walls inversely proportional to the extent of expansion required in order to exert evenly distributed forming pressure, on the portions of the sheets located at different distances from the center of the article to be formed, and means to expand said inflatable member.

---

22,688

### THERMAL RESPONSIVE DEVICE

Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,290,963, dated July 28, 1942, Serial No. 389,461, April 19, 1941. Application for reissue July 24, 1943, Serial No. 496,695

4 Claims. (Cl. 297—11)



1. A thermally responsive device comprising a metal rod having a solid portion and a portion provided with a longitudinal slot, whereby the application of heat to the rod on one side of said slot will cause flexure of the rod, the junction of said solid and slotted portions having a gradually varying cross sectional area, whereby the localization of stresses at the said junction will be minimized.

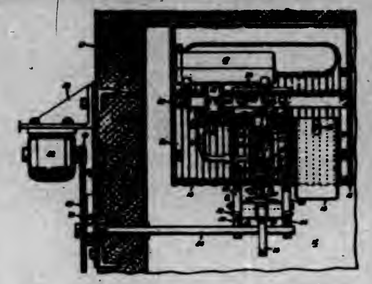
22,689

### ICE MAKING APPARATUS

George S. Hill, North East, Pa., assignor to General Electric Company, a corporation of New York

Original No. 2,373,997, dated May 1, 1945, Serial No. 484,726, April 27, 1943. Application for reissue August 30, 1945, Serial No. 611,616

9 Claims. (Cl. 62—2)



7. An apparatus for making blocks of ice or similar material comprising a cell having heat conducting side walls, means for maintaining in communication with said cell a constant supply of liquid at a level to fill said cell, means for cooling the heat conducting walls of said cell to freeze the portion of said liquid supply adjacent said walls, means for preventing the freezing of said supply of liquid at the bottom of said cell, and means for pushing the frozen block upwardly out of said cell, whereby said cell is refilled from said supply.

---

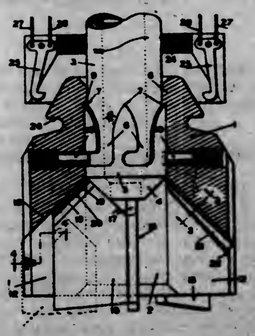
22,690

### REMOVABLE DRILLING BIT

Carl C. Kecin, St. Louis County, Mo.

Original No. 2,237,720, dated December 28, 1943, Serial No. 479,185, March 15, 1943. Application for reissue October 14, 1944, Serial No. 558,665

16 Claims. (Cl. 255—61)



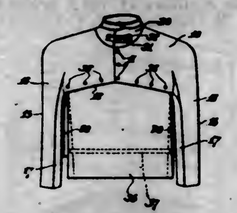
1. In a drilling apparatus, a rotary drilling shaft, a drilling bit body slidable on the shaft,

means associated with the end of the drilling shaft and with the bit body for attaching the body to the lower end of the shaft so as to be retated therewith while the lower end of the shaft remains adjacent the bottom of the hole being drilled and for so detaching the body that it will be free to be moved relatively axially of the shaft to the top of the hole, a cutter, means for mounting the cutter on the body for movement in a single plane only, and means for causing the cutter to be moved to a position to operate on the bottom of the hole axially below the end of the shaft when the body is attached to the lower end of the shaft.

# PATENTS

## GRANTED NOVEMBER 6, 1945

**2,388,234**
**WELDER'S PROTECTIVE CAPE**
George H. Abel, Huntingdon Valley, Pa.
Application June 5, 1944, Serial No. 538,572
3 Claims. (Cl. 2—51)



1. A protective garment of fire resistant material comprising a yoke portion covering the shoulders and the upper portions of the front and back, sleeves connected to said yoke, and pendant side apron portions extending downwardly from the termini of the sleeves at the armpits for protecting the sides of the body, said side apron portions each having free side edges at the front and rear thereof.

---

**2,388,235**
**NITROGEN-CONTAINING RESINS AND PROCESS OF EXCHANGING ANIONS IN FLUID MEDIA**
Phillip I. Bowman, Syracuse, N. Y., and Harry Burrell, Paramus, N. J., assignors, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 2, 1941, Serial No. 400,912
6 Claims. (Cl. 210—24)

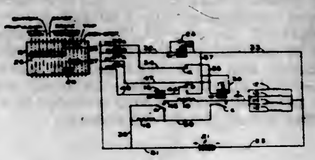
2. A process of exchanging anions in fluid media, which comprises contacting the anion-containing fluid medium with a substantially water-insoluble reaction product of approximately 21 parts by weight of melamine, approximately 8.6 parts by weight of diethylene triamine, approximately 94 parts by weight of 37.5% formaldehyde solution and approximately 1.5 parts by weight of sodium hydroxide, that has been gelled after the initial reaction of these substances and set to a hard friable gel with a strong acid.

---

**2,388,236**
**THIOCARBAMYL PIPERIDYL SULPHIDES**
Robert H. Cooper, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application November 6, 1940, Serial No. 364,990. Divided and this application May 26, 1942, Serial No. 444,561
1 Claim. (Cl. 260—326)

Cyclo pentamethylene thiocarbamyl piperidyl sulphide.

**2,388,237**
**MAGNETIC TRACK BRAKE CONTROL APPARATUS**
Philip L. Crittenden, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 27, 1943, Serial No. 477,296
5 Claims. (Cl. 188—165)
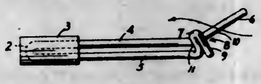


1. Control apparatus for a magnetic track brake device of the type resiliently suspended above an associated track rail and having an electromagnetic winding effective when energized above a certain degree to cause movement of the track brake device into contact with the track rail, said apparatus comprising a controller having a brake release position and a plurality of brake application positions, a plurality of relays selectively controlled according to the brake application position of the said controller for correspondingly varying the degree of energization of the winding of said track brake device, and timing means controlled by said controller and effective jointly therewith to control said relays for a certain length of time following the instant the controller is first moved to any one of said plurality of brake application positions in a manner to cause energization of the winding of the track brake device to a degree exceeding said certain degree notwithstanding that a different degree of energization of the winding is called for according to the position of the controller.

---

**2,388,238**
**PROCESS OF MAKING POLYMERIC ACETALS**
Joseph Dahle, West Newton, Mass., assignor, by mesne assignments, to Pro-Phy-Lac-Tic Brush Company, Northampton, Mass., a corporation of Delaware
No Drawing. Application September 30, 1942, Serial No. 460,279
4 Claims. (Cl. 260—73)

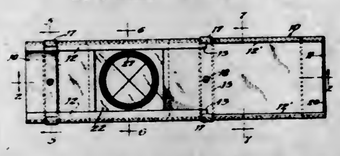
1. The method of insolubilizing a solid polyvinyl alcohol which comprises reacting a mixture of an alkyl alcohol having not more than four carbon atoms, an aldehyde and an acetalization catalyst in which the molar proportions of aldehyde to alcohol are within the range of about 1:1 and 1.5:1, said reaction mixture being a solvent for the aldehyde, and treating the solid polyvinyl alcohol in the reaction mixture thus produced, the polyvinyl alcohol and the final product being in the solid state throughout the reaction.

2,388,239
**THREAD GUIDE**
Ferdinand A. Decker, Jr., Parkersburg, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 27, 1944, Serial No. 537,743
4 Claims. (Cl. 242—157)



1. A thread guide having two members each having a free end near that of the other and being spaced apart along a portion of their lengths extending inwardly from the free ends to provide a thread passage therebetween, one of said members being turned back upon itself and to one side so that it overhangs the other member adjacent its end, said bent portion presenting an outer thread-guiding surface facing toward and converging with a thread-guiding surface adjacent the end of the other member to provide in conjunction therewith an entrance for the thread, and said bent portion having an inner thread guiding surface inclined inwardly from a perpendicular to said member to confine the thread within the thread passage.

2,388,240
**PHOTOGRAPHIC DEVICE**
William L. Appling, Uvalde, Tex.
Application May 8, 1943, Serial No. 486,149
10 Claims. (Cl. 88—24)



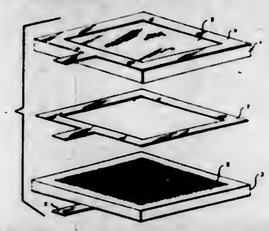
1. A photographic device of the class described comprising a relatively thin elongated holder member formed with a single sight aperture therethrough, the remaining face portion being imperforate, and a complementary elongated slide member formed with a focus screen aperture including a focusing screen carrying a projectible design extended over the aperture adjacent one end thereof adapted to register with said sight opening, the slide member including photographic film holder means adapted to provide a seat for said film co-planar with said screen adjacent the other end portion thereof and adapted thereat to form a light-tight pocket with the imperforate end portion of the holder and between the adjacent faces of said portions.

2,388,241
**TRANSMISSION CABLE**
Charles A. Arens, Chicago, Ill., assignor to Arens Controls, Inc., Chicago, Ill., a corporation of Illinois
Application September 23,1943, Serial No. 503,509
7 Claims. (Cl. 74—501)



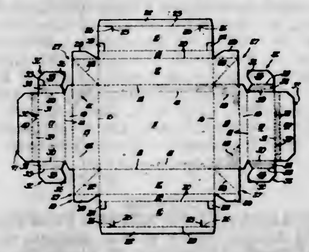
1. A transmission cable comprising an elongated core, a plurality of bearing members disposed in spaced relation longitudinally of the core, said bearing members being spaced apart a distance less than their axial length and said bearing members being individually immovably fixed on the core and arranged to support the core substantially along the entire length of the bearing members, and a sheath within which the core and bearing members are longitudinally slidable as a unit.

2,388,242
**PIEZOELECTRIC TRANSDUCER**
John P. Arndt, Jr., Euclid, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application January 11, 1943, Serial No. 471,968
33 Claims. (Cl. 171—327)



1. The method of electroding a face of a section of fusible piesoelectric matter, that comprises providing said face, over less than its total area, with a layer of electrically conductive material, providing said layer with a boundary element having conductivity materially higher than that of the layer, thereafter causing said element to be heated to a temperature sufficiently high to fuse the piezoelectric matter immediately in contact therewith and adjacent thereto and discontinuing the heating before damage is done to the remainder of the section, whereby said element is intimately bonded to the section and is held in conductive relation to the said layer at the boundary thereof.

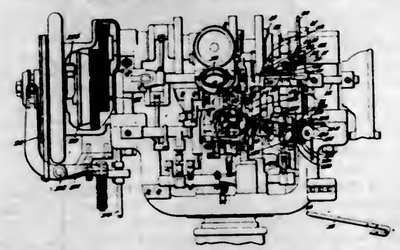
2,388,243
**CARTON**
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application December 9, 1942, Serial No. 468,333
5 Claims. (Cl. 229—31)



1. A carton of the class described, which comprises a bottom panel, outer side and end walls extending from the edges thereof, inner side and end walls separated from said outer walls by spacer portions joining said walls at their tops, the inner side walls having extensions secured to said bottom and laterally projecting tongues at their upper ends in the same plane as said spacer portions, the outer side walls having extensions forming end wall sections, said end wall sections each having an extension lying adjacent each of said laterally projecting tongues, and said inner end walls having means interlockingly to secure the extensions on the end wall sections to each adjacent laterally projecting tongue to hold the box in erected position, and inwardly directed extending portions connected to said means automatically operable to bring the latter into operative position upon erection of the carton walls.

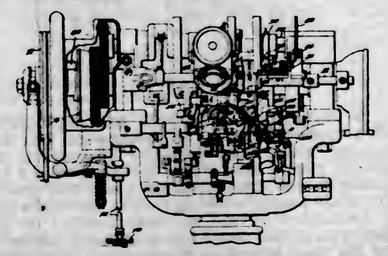


2,388,244
**SHOE MACHINE**
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 25, 1943, Serial No. 499,951
33 Claims. (Cl. 112—46)



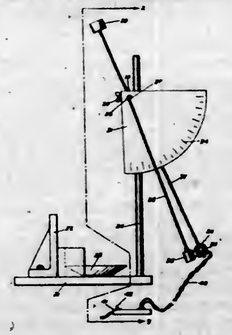
6. In a sewing machine for use in the manufacture of shoes of the stitchdown type, the combination with stitch forming devices acting to secure a welt progressively to the outturned upper and projecting sole margin of a shoe, a welt guide disposed at an angle to the outturned surface of the shoe upper operated upon to form a bend in the welt at the point of contact with the upper, of a knife mounted to cut the welt along the bend, and driving and stopping mechanism acting, when thrown into operation during sewing, to cause the knife to cut the welt less than a stitch length from the sewing point and then to bring the machine to rest after the succeeding stitch has been inserted.

2,388,245
**SHOE MACHINE**
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 8, 1944, Serial No. 530,168
27 Claims. (Cl. 112—46)



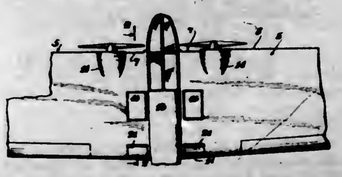
4. In a sewing machine for use in the manufacture of shoes of the stitchdown type, the combination with stitch forming devices acting to secure a welt progressively to the outturned upper and projecting sole margin of a shoe, and a welt guide for directing the welt into a position on the outturned shoe upper in advance of the sewing point, of driving and stopping mechanism constructed and arranged when thrown into operation during sewing to bring the stitch forming devices to rest after having inserted two stitches, a knife for severing the welt along a portion thereof in contact with the shoe upper, mechanism for actuating the knife, and connections between the driving and stopping mechanism and the knife actuating mechanism for causing the knife to be actuated before the second-to-last stitch is inserted.

2,388,246
**PENDULUM IMPACT TESTER**
Arthur J. Berger, New York, N. Y.
Application May 11, 1945, Serial No. 593,180
2 Claims. (Cl. 73—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an impact testing machine having a pendulum type hammer of magnetic material pivotably attached to a support therefor, the improvement comprising an arm adjustably attached to said support, and an electromagnet mounted on said arm in the arc of swing of the said hammer, said arm being pivotably attached to the said support so as to swing about the same axis as the said pendulum hammer.

2,388,247
**AIRPLANE**
Murray Berkow, New York, N. Y., assignor to Central Aircraft Corporation, Keyport, N. J., a corporation of Delaware
Application November 22, 1940, Serial No. 366,533
12 Claims. (Cl. 244—53)

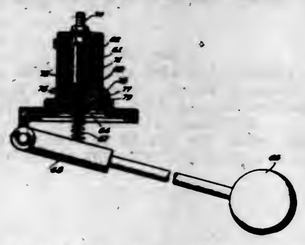


1. An airfoil having a duct therein with an enlarged portion adapted to reduce at a portion thereof the velocity of an air stream passing therethrough, a supercharger unit at least partly

in said duct, tail pipes connected with the exhaust from said supercharger unit and from the engine and extending to positions adjacent the rear of said duct adapted to conduct and discharge exhaust gases, and a passage for supplying air to said supercharger unit.

---

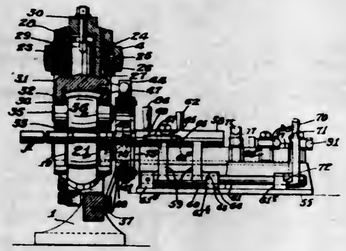
2,388,248
FLUID METER
Earl E. Bidwell, San Diego, Calif., assignor to Walter P. Innes, Jr., Wichita, Kans.
Application March 25, 1942, Serial No. 436,147
7 Claims. (Cl. 201—48)



1. In a variable electric resistance device of the character described, a housing having an elongated passageway therein, a pair of conductors disposed in spaced relation and extending longitudinally of said passageway, a drop of electrically conductive liquid within said passageway and contacting both of said conductors, said drop being movable along said passageway and establishing an hermetic seal with the walls thereof to entrap air between said drop and an end of said passageway, and a needle valve communicating with said end of said passageway regulable to determine the rate of flow or air into and out of said passageway and thereby damp movements of said conductive fluid within said passageway.

---

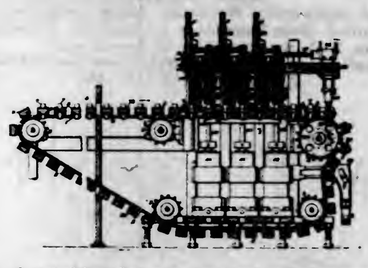
2,388,249
ROLLING MILL
Tracy V. Buckwalter, Massillon, and William L. Scribner, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application March 12, 1940, Serial No. 323,520
12 Claims. (Cl. 80—22)



2. A rolling mill comprising a frame, a series of roll-mountings each having a journal journalled in said frame and each journal having an axis intersecting, when produced, the produced axis of another mounting, a working roll having end journals journalled in each mounting on opposite sides of the journal thereof and having an axis of rotation transverse to the axis of its mounting, a rotatable ring, and couplings extending substantially parallel with said axes of rotation and connecting said ring with the respective mountings to turn them on their respective axes.

---

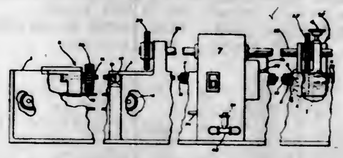
2,388,250
AUTOMATIC LOADING MACHINE
Alvin A. Campbell, Hackettstown, N. J.
Application July 7, 1941, Serial No. 401,335
7 Claims. (Cl. 86—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A machine for compacting explosive material into a shell, comprising a conveyor and means for moving it with a step-by-step movement, a stationary ram disposed above the conveyor, a shell holder on the conveyor internally shaped to removably support the shell in a vertical position with its lower end below the shell holder, a reciprocatory member movable to engage the lower end of the shell to completely remove it from its seat in the holder and to telescope it upwardly onto the ram to compact an explosive contained in said shell, a yielding member slidable on the ram and cooperating with said reciprocatory member to support and guide the shell independently of the shell holder while telescoping it on the ram.

---

2,388,251
TUBE REDUCING MILL
George B. Coe, Upper Montclair, N. J., assignor to Rockrite Processes, Inc., Stamford, Conn., a corporation of Delaware
Application June 22, 1944, Serial No. 541,491
8 Claims. (Cl. 80—14)



1. In a tube reducing mill, the combination with a mandrel, a pair of cooperating dies and actuating mechanism therefor to reduce the stock, of means for feeding the stock along the mandrel to the dies including a one-way clutch and a fluid-pressure line having at one end a piston connected to the driving member of the clutch and at the other end a plunger, means to hold the mandrel from longitudinal movement while the stock is being fed, means positively connected to both the mandrel and the stock for



turning the mandrel and stock including a one-way clutch and a fluid-pressure line having at one end a piston connected to the driving member of the second named clutch and at the other end a plunger, and means operatively connected with the actuating mechanism of the dies to actuate both of said plungers in a predetermined time relation to each other and to the actuation of the dies.

---

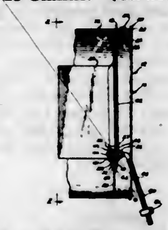
2,388,252
SLIDE MEMBER FOR MEASURING AND MARKING DEVICES
Carl J. Crane, Sacramento, Calif.
Application January 26, 1943, Serial No. 473,657
15 Claims. (Cl. 33—107)



1. In a combination measuring and marking device, the combination of an elongated scribing element having a marking point at an end thereof and provided with a scale longitudinally thereof, a member slidable along the scribing element and having an index to register with the reading to be taken from the scale, and a body of rubber operatively associated with the member for movement therewith longitudinally of the scribing element with the body extending laterally of the scribing element and having a surface in frictional contact with a surface of the scribing element and having a surface portion laterally remote from the scribing element.

---

2,388,253
BAROMETRIC DRAFT CONTROL
Arthur O. Dady, Flossmoor, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 1, 1942, Serial No. 453,295
13 Claims. (Cl. 236—45)

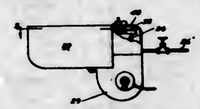


11. A barometric draft control comprising means providing a draft opening, a damper blade for said opening, said means and blade having horizontally aligned holes, and a spring torsion wire passing through said holes, said wire having an intermediate portion non-rotatably engaged with said blade eccentrically of the axis of said holes, said wire having end portions non-rotatably engaged with said means.

---

2,388,254
OIL BURNER
John Stanley Daniels, Rockaway, Oreg.
Application October 4, 1943, Serial No. 504,800
5 Claims. (Cl. 158—53)

1. An oil burner of the character described, comprising a housing provided with an air inlet opening, a burner compartment within said housing, said burner compartment having a bottom plate and a top plate and a curved side wall extending about said compartment joining said bottom and said top plates, a discharge mouth for said burner compartment at the front end of said burner compartment, said housing having a front wall and said front wall provided with an opening, said mouth connected with said opening, a diffusing plate in the bottom of said compartment, said plate having a plurality of upstanding symmetrically arranged vanes, said curved side wall provided with a plurality of air inlet ports so located and arranged as to direct currents of air against said vanes, a pair of air chambers in said compartment respectively ad-



jacent the sides of said mouth, each of said chambers having an air outlet, said outlets arranged to direct the air from said chambers rearwardly along the inside of the side wall of said burner compartment, whereby the rearwardly directed currents of air from said chambers will strike against said vanes and the dispersed currents of air from said inlet ports, controllable means for admitting air into each of said chambers separately, and means for admitting liquid fuel into the rear of said burner compartment, said inlet ports, air chambers and vanes adapted to cause a "turbulence" of fuel vapors and admitted air to be set up within said compartment.

---

2,388,255
STABILIZED ORGANIC SUBSTANCES AND METHOD OF STABILIZING SAME
Morris H. Daskais and Ellis K. Fields, Chicago, Ill., assignors to Research Corporation, a corporation of New York
No Drawing. Original application January 16, 1943, Serial No. 472,598. Divided and this application February 15, 1943, Serial No. 475,938
11 Claims. (Cl. 44—73)

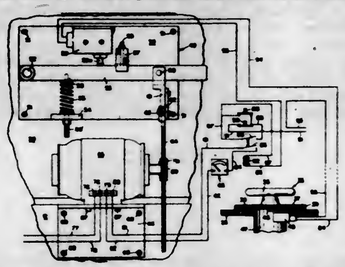
1. The method of increasing the stability of an organic substance subject to deterioration through oxidation while in contact with a metallic oxidation promoter comprising incorporating in said substance a small amount of the condensation reaction product of two molecules of an alpha isonitroso ketone with one molecule of an organic polyprimary amine.

---

2,388,256
APPARATUS FOR MEASURING RATE OF MOVEMENT
Archibald H. Davis, Jr., Rock Island, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware
Application July 28, 1942, Serial No. 452,951
6 Claims. (Cl. 73—90)

4. In a testing machine having a platen movable in a base and means for moving the platen, in combination, a base, a platen movable relative to the base, manually operated means for controlling the speed of the platen some speeds not being suitable for strain-testing, a generator carried by the base, means for measuring a characteristic of the current generated included in a circuit connected to said generator, a relay in said circuit, a second circuit adapted to close said relay, means effective when the speed of the platen increases faster than a preset amount to

interrupt said second circuit comprising, a pivot on the platen extending normal to the direction of its motion, a lever supported on said pivot also extending substantially normal to the direction of motion of the platen, a spring tending to move the lever in the direction of motion of the platen against a stop on the platen that limits the move-



ment of the lever, a switch in said second circuit mounted on the platen held closed by the lever except when the lever is moved by its inertia away from the stop overcoming the spring, a rack connected to the lever, a pinion on the generator meshing with the rack whereby the motion of the platen drives the generator.

---

**2,388,257**
**BODIED OIL AND METHOD**
**Otto Eisenschiml and Gerald Eisenschiml, Chicago, Ill., assignors to Otto Eisenschiml, Bertha J. Eisenschiml, Gerald Eisenschiml, and Rosalie Eisenschiml Gingiss, doing business as a partnership under name The Scientific Oil Compounding Co., Chicago, Ill.**
**No Drawing. Application May 10, 1941, Serial No. 392,940**
**11 Claims. (Cl. 106—222)**

1. The method of treating oiticica oil to convert the said oil into a fast-bodying oil having a Worstall test of about 4 to about 7 minutes thereof comprising, heating a body of oiticica oil to a temperature in the order of about 350° F. and holding it at about that temperature for a period of from about one-half hour to about two hours while intimately contacting the heated oil throughout the body thereof with air.

7. A heat- and air-bodied oiticica oil capable of being cooked into a varnish at a temperature of about 400° F. to 460° F. and having a Worstall test of about 4 to 7 minutes, said oil having been prepared substantially in accordance with the method of claim 1.

---

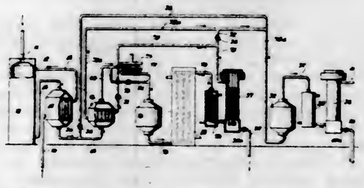
**2,388,258**
**RINSING HEAD FOR AUTOMATIC DISHWASHERS**
**George J. Federighi, San Francisco, Calif.**
**Application November 1, 1941, Serial No. 417,515**
**8 Claims. (Cl. 299—62)**



1. A rockable rinse arm having a central fluid conveying conduit and a spray pipe enclosing and being rockably mounted on the conduit, means disposed at one end of the arm for placing the conduit and spray pipe in communication with each other, screening means at the same arm end for screening the fluid before it enters the spray pipe, outlet nozzles for the spray pipe, a reservoir placed adjacent to the screening means for receiving and holding any foreign matter screened, and a cap normally closing the reservoir but being removable for permitting the reservoir to be cleaned.

---

**2,388,259**
**RECOVERY OF SULPHUR FROM GASEOUS MIXTURES**
**Edward P. Fleming, Los Angeles, Calif., and T. Cleon Fitt, Salt Lake City, Utah, assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**Application July 17, 1942, Serial No. 451,284**
**7 Claims. (Cl. 23—226)**



1. The process for treating sulphur dioxide-bearing gases to recover sulphur therefrom which comprises reacting the sulphur dioxide-bearing gases with a reducing gas at a temperature above 1200° C. thereby yielding a hot gas stream, cooling said hot gas stream to about 400–450° C. by heat exchange with (*a*) incoming sulphur dioxide-bearing gases and (*b*) stripped gas from a first electrical precipitation step, passing the cooled gas stream in contact with a first mass of catalyst, cooling the gas stream from said first catalytic mass to under 150° C. and then subjecting it to a first electrical precipitation step thereby recovering sulphur and yielding a stripped gas stream, heating the stripped gas stream by passing same in heat exchange relationship to the hot gas stream as aforesaid, conducting the heated stripped gas stream in contact with a second mass of catalyst, cooling the gas stream from said second catalytic mass to under 150° C. and then subjecting it to a second electrical precipitation step thereby recovering additional sulphur and yielding a discard gas stream.

---

**2,388,260**
**THERAPEUTICALLY ACTIVE AROMATIC DIAZO COMPOUNDS AND DERIVATIVES THEREOF**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application March 11, 1942, Serial No. 434,176**
**7 Claims. (Cl. 167—78)**

1. A reaction product of a natural, high molecular, nitrogenous material capable of playing a part as a pathogenic agent, said nitrogenous material being selected from the group consisting of poisons secreted by cold-blooded animals, bodies of microorganisms and endotoxins and exotoxins produced by said microorganisms, with a diazonium salt containing or capable of liberating a group of the formula

$$A_{n_1}—[Ar—N{=}N]_{n_2}$$

wherein Ar represents a residue of a diazotizable amine selected from the group consisting of mono- and polynuclear aromatic radicals, pyridine and quinoline radicals, A is a substituent selected from the group consisting of carboxyl, and $SO_3H$ radicals, $n_1$ represents the number of A radicals, there being no more than one such A group for any aryl ring, and the system

$$—[Ar—N{=}N]_{n_2}$$

being selected from the group consisting of aryldiazo and diphenyltetrazo radicals.



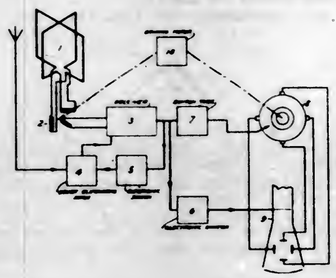
---

**2,388,261**
**RIBOFLAVIN SOLUTION**
**Douglas V. Frost, Waukegan, Ill., assignor to Abbott Laboratories, a corporation of Illinois**
**No Drawing. Application October 27, 1941, Serial No. 416,757**
**4 Claims. (Cl. 167—81)**

3. A stable aqueous therapeutic solution containing from 0.1% to 2.0% of boric acid and more than 0.03% of riboflavin, said solution having a pH from 4.0 to 6.6; the riboflavin and boric acid being in that state of combination resulting from prolonged heating for about two hours above 80° C.; said solution remaining stable indefinitely at room temperatures, without the precipitation of the therapeutic in crystalline form, and without deleterious decomposition of the therapeutic.

---

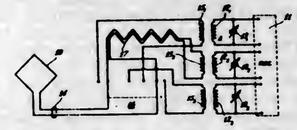
**2,388,262**
**ELECTROMAGNETIC WAVE DIRECTION INDICATOR**
**André Ganiayre and René Hardy, Lyon, France; vested in the Alien Property Custodian**
**Application April 24, 1942, Serial No. 440,415**
**In France July 1, 1941**
**8 Claims. (Cl. 250—11)**



1. A direction finder comprising a cathode ray oscilloscope, a signal receiving system including means for rectifying an incoming signal wave and means controlled by said rectified wave for producing on said oscilloscope an image indicating the line of direction of the signal; and means for suppressing a portion of the image to indicate the directional lay, comprising means controlled by the pulsations of said rectified wave for generating voltage peaks in synchronism with and exceeding alternate pulsation voltages, a second means for generating voltage peaks actuated by and in synchronism with said former voltage peaks, and means actuated by said second voltage peaks for alternately impressing and suppressing successive portions of said image in synchronism with said second peaks.

---

**2,388,263**
**RADIO DIRECTION FINDING SYSTEM**
**Carl-Erik Granqvist, Stockholm, Sweden, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden, a corporation of Sweden**
**Application June 30, 1942, Serial No. 449,118**
**In Sweden April 2, 1942**
**9 Claims. (Cl. 250—11)**



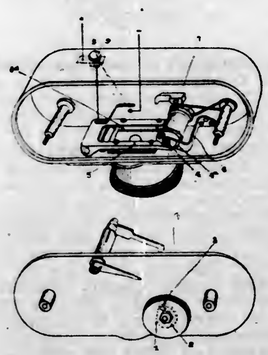
1. A radio direction finding system comprising an antenna, a receiver having tuning circuits and a transmission line connecting said antenna with said receiver tuning circuits characterized in that the inductance of the antenna and the length and the characteristic impedance of said transmission line from the antenna to the tuning circuit of the receiver are so chosen that the equation

$$\frac{\omega L_1}{Z_0} = \tan \alpha x$$

is substantially satisfied, $\omega$ indicating the angular frequency of the received signal, $L_1$ indicating the characteristic inductance of the antenna inclusive of the inductance of the transmission line to the first tuning circuit, $Z_0$ indicating the characteristic impedance of the line, $\alpha$ indicating the electric angle per unit of length of the transmission line and $x$ indicating the length of the transmission line.

---

**2,388,264**
**APPARATUS FOR COPYING DOCUMENTS AND THE LIKE**
**René Alphonse Higonnet and Louis N. Chereau, Lyon, France; vested in the Alien Property Custodian**
**Application April 24, 1942, Serial No. 440,418**
**In France November 18, 1941**
**4 Claims. (Cl. 88—24)**

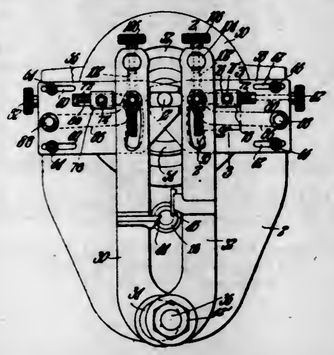


1. A photographic apparatus of the character described comprising a camera having film advancing means and automatic light controlling means therefor comprising a feed circuit, a timing circuit closing device, a control circuit connected in series with the timing device, an illumi-

nation circuit and lamps connected to be energized thereby, circuit connections to control the energising of lamps including a controlled lighting switch, a relay in the control circuit for operating the light switch, shunt connections in the control circuit and a relay operated thereby and arranged in blocking relation to the light switch relay to effect resetting thereof to open position, to insure full time period of lighting, a second circuit in shunt relation to the light switch relay and operatively connected thereto to permit re-energizing of the light switch relay only after opening of the control circuit, whereby double exposure of said film is prevented, a camera switch connected in series with said control circuit and said shunt-connected circuit, means for closing said camera switch at the end of each film advance, comprising a contact located in said camera, means mechanically connecting said film advancing means to said contact whereby said contact is opened only when film advance occurs, and relay means controlled by said contact and opening said shunt circuit prior to each film advance.

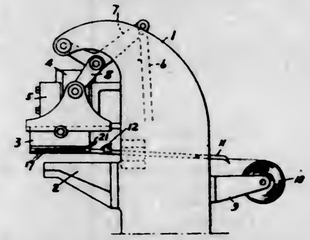
---

**2,388,265**
**MACHINE TOOL**
Robert A. Johnson, Longmeadow, Mass.
Application October 8, 1943, Serial No. 505,492
5 Claims. (Cl. 82—25)



1. A machine tool of the class described comprising in combination, a support, a cam shaft rotatable in the upper portion of said support, separate tool carriers having lower ends mounted for swinging movements in the lower portion of said support and having upwardly extending free ends disposed at opposite sides of said cam shaft, a spindle rotatable in the support between and intermediate the opposite ends of the carriers and tools carried by said carriers adjacent said spindle, a cam on said cam shaft having a forward face provided with a cam groove for each carrier, separate slides one for each carrier mounted on said support adjacent the forward face of the cam and the free ends of the carriers for straight-line independent reciprocating movements, operative adjustable connections between said slides and said cam grooves whereby the slides are reciprocated by rotation of the cam, and adjustable connections between said slides and carriers whereby the latter are swung back and forth by the former, said first-named connections including blocks slidable in said slides having members disposed in said grooves and means for moving said blocks in the slides.

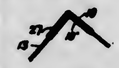
**2,388,266**
**APPARATUS FOR PRODUCING STAYED BOXES**
Malcolm P. Junkin, Drexel Hill, Pa.
Application August 21, 1941, Serial No. 407,764
4 Claims. (Cl. 93—56)



1. Apparatus for securing a thermoplastic stay about a corner of a box body formed from fibrous material, which comprises, in combination, an anvil having angularly disposed working faces for the support of the corner portion of a box body, a die having angularly disposed working faces adapted to cooperate with the faces of the anvil, hot points projecting from the faces of the die and adapted on operation of the die to apply heat and pressure at points to a thermoplastic strip to effect its adherence to fibre of a box body supported on the anvil.

---

**2,388,267**
**BOX**
Malcolm P. Junkin, Drexel Hill, Pa.
Original application August 21, 1941, Serial No. 407,764. Divided and this application March 16, 1942, Serial No. 434,819
4 Claims. (Cl. 229—49)



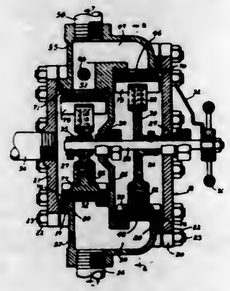
1. In combination a box body having adjacent walls forming a corner, said body being formed from fibrous material, and a corner stay formed from a strip of thermoplastic material about a corner of the body and adhered to fibre of the adjacent walls of the body by the application of heat and pressure at separated points only on the strip.

---

**2,388,268**
**MULTIPORT ROTARY VALVE**
Andrew Kremheet, Elgin, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois
Application November 6, 1942, Serial No. 464,744
7 Claims. (Cl. 277—19)

1. In a multiple port valve, a hollow generally cylindrical body member having ports provided in the cylindrical wall thereof in two spaced substantially parallel planes extending transversely with respect to said body member, a partition wall in said body member between the two sets of ports defining two chambers, one of which communicates with the one set of ports and the other with the other set of ports, rotary spider members in said chambers carrying circumferentially spaced, separate, arcuate-faced valve shoe means for slidable sealing engagement with the cylindrical wall of the chambers, spring means for urging said valve shoe means outwardly individually relative to the spiders into tight sealing engagement with said ported cylindrical wall covering and closing selected ports, means for turning the spider members, the wall of said body member in each of said chambers including a ported cylindrical

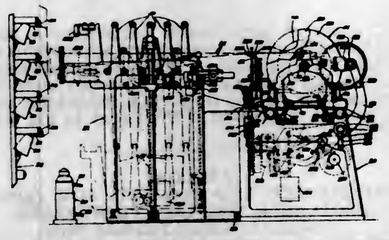




liner sleeve of non-metallic material inserted in said body member having its ports registering with the body ports, said sleeve having a smooth inner surface, arcuate facing pads of gasket material on said valve shoes for slidable sealing contact on the smooth inner surface of said sleeve, and a removable closure plate forming an end wall on said body member for each of said chambers.

---

**2,388,269**
**WARPING OR BEAMING MACHINE**
Fritz Lambach, Tenafly, N. J.
Original application November 21, 1941, Serial No. 419,835, now Patent No. 2,324,612, dated July 20, 1943. Divided and this application September 24, 1942, Serial No. 459,539
17 Claims. (Cl. 28—39)



1. A warping or beaming machine for winding warp on a beam, comprising: a drive including a driving shaft, coupling means connected with said driving shaft and arranged for driving engagement with said beam so as to rotate same in dependence on the speed of the driving shaft, automatic controlling means associated with said driving shaft for reducing the speed thereof during the building up of the winding on the beam, and a movable member arranged for contacting engagement with the winding on the beam, said movable member being associated with said automatic controlling means for actuating same for a reduction of the speed of the driving shaft in dependence on the building up of the winding on the beam.

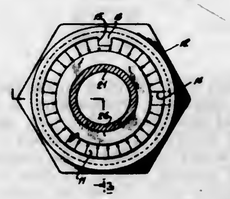
**2,388,270**
**LOCK NUT UNIT**
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application October 3, 1944, Serial No. 558,980
4 Claims. (Cl. 151—19)



1. A lock nut unit comprising an internal member provided with an axial slit, said member being externally tapered and internally threaded for engaging a threaded member, and being provided with at least one external keyway, an external member provided with an internal axially tapered aperture to receive said internal member, and a key extending from said external member adapted to be received in said keyway to key the internal member in the external member for axial reciprocation therein, said key being provided with spaced flat surfaces which face the directions of rotation of the external member said internal member being adapted to be contracted to close the slit thereof to enable the same to be received in the aperture of said external member, said keyway being so disposed relative to the slit as to provide a predetermined wrapping effect when the parts are assembled and engage a threaded member.

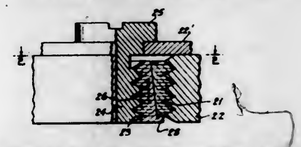
---

**2,388,271**
**FLANGED LOCK NUT UNIT**
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application October 3, 1944, Serial No. 556,981
1 Claim. (Cl. 151—19)



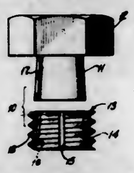
A lock nut unit comprising an internal member provided with an axial slit, said member being externally tapered and internally threaded, and an external member provided with an internal flange and with an internally tapered portion, with the largest diameter of said internally tapered portion adjacent the flange, said internal member being provided with an external keyway, and said external member being provided with an internal key provided with positive force imparting surfaces and extending from the internally tapered portion thereof and adapted to be received in the keyway of said internal member, said keyway being so located circumferentially relative to the slit as to provide a predetermined wrapping effect on assembly and use of the unit.

2,388,272
**INTERNAL LOCK NUT**
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application October 3, 1944, Serial No. 556,982
2 Claims. (Cl. 151—19)



1. An internal lock nut comprising an externally threaded member for threaded engagement with a threaded aperture, said member being provided with an axial slit and having an internal tapered aperture, and an internal member externally complementarily tapered and adapted to be inserted into the aperture of said first named member, said internal member being internally threaded for engagement by a threaded member and being provided with an axial slit and with an external key adapted to be received in the slit of said first mentioned member to key the internal member therein for axial reciprocation therein, said key being so disposed relative to the slit of the first mentioned member as to provide a predetermined wrapping effect when the parts are assembled and engage a threaded member.

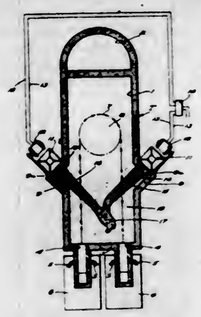
2,388,273
**LOCK STUD**
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application October 3, 1944, Serial No. 556,983
4 Claims. (Cl. 151—19)



1. A stud unit adapted to be threaded into a threaded aperture, comprising a tapered stud, and a ring provided with a slit, said ring being internally tapered complementary to the tapered stud and being adapted to be positioned on said stud, and keying means on said stud and ring to enable the latter to be vertically reciprocated on the stud for expansion thereon during the threading of the stud, into the first mentioned threaded aperture, said keying means being so located circumferentially relative to the slit as to provide a predetermined wrapping effect when the ring is threaded into the first mentioned threaded aperture.

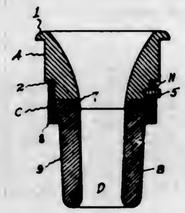
2,388,274
**METHOD OF AND APPARATUS FOR MAKING GLASS**
Aaron K. Lyle, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application June 4, 1941, Serial No. 396,555
10 Claims. (Cl. 49—54)

1. In the making of glass in a glass melting furnace, the method which comprises feeding batch into said furnace from a feeding point located at one side of said furnace in a direction



having a component toward the rear end of said furnace.

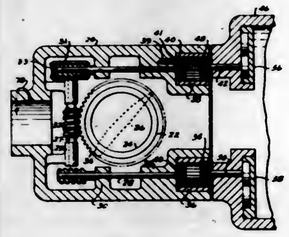
2,388,275
**TUYÈRE CONSTRUCTION**
Dorothy E. Mackenzie and George H. Wolfe, Reno, Nev.
Application December 24, 1943, Serial No. 515,552
2 Claims. (Cl. 266—41)



1. A tuyère construction comprising a body portion made of a semi-steel, and a removable tip portion made of material resistant to destruction by heat, and a metallic collar secured around the body portion and the tip portion for holding said tip portion in position with respect to the body portion.

2,388,276
**MECHANISM AND CONTROL FOR CONTROLLABLE AIRCRAFT PROPELLERS**
Howard M. McCoy, Fairfield, Ohio
Application September 16, 1942, Serial No. 458,587
17 Claims. (Cl. 170—163)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An adjustable pitch screw propeller comprising a rotatable propeller hub, a propeller blade having its root rotatable in said hub about the axis of the blade, a gear secured to the root of said blade to rotate said blade about the blade axis, a pinion having rotative bearing in said hub, speed reducing gearing connecting said pinion and said gear, a spring pressed detent ball adjacent said pinion, said pinion having a circular row of pockets into which said ball is spring pressed, an internal gear coaxial with the hub having rotative bearing in said hub and meshing with said pinion, an external gear within said internal gear coaxial with the hub having rotative bearing in said hub and meshing with said pinion, a nonrotative member, a second pinion in mesh with said internal gear only, a third pinion in mesh with said external gear only, shafts for said second



and third pinions, journal bearings in said nonrotative member for said second and third pinion shafts, and a brake for each of said second and third pinion shafts carried by said nonrotative member.



2,388,277
**FIBROUS CONTAINER**
Harold E. McCrery, Oakwood, Ohio, assignor to Fiyfiber Container Corporation, Garwood, N. J., a corporation of New Jersey
Application February 1, 1941, Serial No. 376,947
8 Claims. (Cl. 229—4.5)



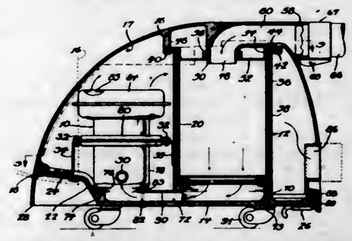
1. The method of constructing a container body composed of a plurality of superposed plies of fibrous sheet material each having bottom, top and side edges, which consists in preforming each of the fibrous sheets into a form in which the side edges thereof are in overlapping surface to surface contacting relation, maintaining each of said sheets in said preformed condition, telescoping said preformed sheets relative to each other with their overlapped side edge portions in alinement and with the inner and outer side edges of each sheet extending in the same direction respectively as the inner and outer side edges of the next adjacent sheet, and then securing all of said preformed telescoped sheets together in surface to surface contacting relation along their overlapped alined portions, the remainder of said preformed telescoped sheets being otherwise free of connection with each other.



2,388,278
**PRODUCTION OF HIGHLY POLYMERIC ORGANIC COMPOUNDS**
Robert Wighton Moncrieff and Edward William Wheatley, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 5, 1941, Serial No. 387,064. In Great Britain April 25, 1940
2 Claims. (Cl. 260—78)

1. Process for the separation of the polyamide resulting from the polymerization of hexamethylene diamine and adipic acid from the solid reaction mass obtained from completion of the polymerization, which comprises dissolving the solid polymerized carboxylic acid amide in a liquid which is a solvent therefor at atmospheric temperature and which comprises formic acid, separating any undissolved substances from the solution and then precipitating the polyamide in a particulate form by mixing the solution with an aqueous solution of an organic liquid, which solution is a non-solvent for the polyamide and is miscible with the solvent present in the solution, both the solution and the non-solvent being at a temperature below 100° C.

2,388,279
**SUCTION CLEANER**
Joseph H. Nuffer, Toledo, Ohio, and Lynn H. Latta, Deerfield, Ill., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application September 27, 1943, Serial No. 503,916
5 Claims. (Cl. 183—37)

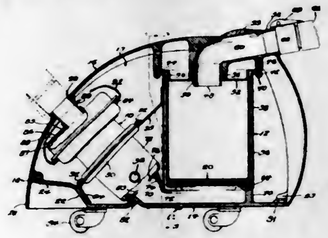


1. In a suction cleaner, a base, a suction unit on said base, a filtering unit on said base in communication with said suction unit, said filtering unit including an upright casing and a dust collecting unit within said casing, said dust collecting unit having a foraminous wall and an inlet aperture, a cover cooperating with said base to enclose said units, means carried by and movable with the cover forming a portion of the air inlet duct and cooperating with said inlet aperture to direct dust-laden air into said dust collecting unit, and a mounting for said cover enabling same to be moved to a position freely to expose said suction and filtering units and enable ready inspection of said dust collecting unit.

2,388,280
**SUCTION CLEANER**
Joseph H. Nuffer, Toledo, Ohio, and Lynn H. Latta, Deerfield, Ill., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application September 27, 1943, Serial No. 503,917
1 Claim. (Cl. 15—14)

In a suction cleaner, a base having a duct formed at one end with an upwardly opening in-

let and at its other end with an upwardly inclined outlet, a filtering unit including an imperforate outer casing mounted upon the inlet portion of the duct and extending upwardly, a suction unit having an inlet end attached to said outlet portion of the duct, said suction unit extending upwardly at an acute angle to the base, said filtering unit including a perforated liner within said imperforate casing and spaced therefrom and a porous dust collecting receptacle within said perforated liner, and a cover



cooperating with said base to form a housing enclosing said suction and filtering units and adapted to be moved to a position wherein said units are exposed for servicing operations, said cover being formed with a nozzle adapted, when the cover is closed, to establish communication with said receptacle, and with means adapted to cooperate with said receptacle to clamp the same in supported relation in said imperforate casing, and an inlet communicating with said nozzle, to which a flexible tube may be attached for pulling the cleaner about upon a surface being cleaned.

---

**2,388,281**
**FATTY ACID ESTERS HAVING AMPHOTERIC PROPERTIES**
**John W. Orelup, Short Hills, N. J.**
**No Drawing. Application June 25, 1940, Serial No. 342,279**
**8 Claims. (Cl. 260—401)**

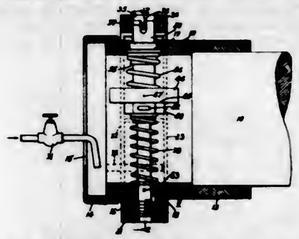
1. A fatty acid mono ester of a fatty acid containing at least six carbon atoms with an aliphatic amino alcohol, said ester containing a primary amino group in which the carbon atom binding the amino group is bound to at least two other carbon atoms, and said amino group is unsubstituted.

3. The process of preparing a mono ester of a fatty acid containing at least six carbon atoms, said ester containing an unsubstituted primary amino group which includes the steps of reacting a fatty acid with an aliphatic amino alcohol in which the amino group is bound by a carbon atom having at least two carbon atoms bound to it, at dehydrating temperatures, and removing the water evolved.

---

**2,388,282**
**CENTRIFUGAL TYPE SPEED GOVERNING MECHANISM**
**Harold M. Otte, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application February 19, 1942, Serial No. 431,604**
**7 Claims. (Cl. 264—17)**

6. Centrifugal type speed governing mechanism comprising means including a flyweight and a spring opposing movement of the flyweight, other means including a flyweight independently movable of the first flyweight and opposing movement of the latter, means for varying the mass



of one of the flyweights during operation, and means responsive to changes of the differential of centrifugal forces acting on the flyweights.

---

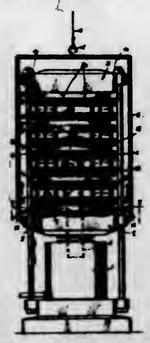
**2,388,283**
**CONVEYER**
**John A. Porter, United States Army, San Antonio, Tex.**
**Application November 9, 1944, Serial No. 562,640**
**2 Claims. (Cl. 193—35)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A conveyer comprising a pair of fixed, elongated, parallel, spaced side rails, a plurality of rollers supported between said side rails, cross braces disposed between said side rails, a movable conveyer section disposed between two of said cross braces and said spaced side rails, a plurality of rollers carried by said movable conveyer section, means to lower said movable section so that the plane of its rollers will be below the plane of the rollers carried by the side rails, and means connected to the two cross braces between which the movable conveyor section is disposed to limit the vertical movement of the movable conveyer section.

---

**2,388,284**
**METHOD OF TREATING RAW ANIMAL FATS**
**Essel Ratner, New York, N. Y., assignor of one-half to Boris Pregel, New York, N. Y.**
**Application August 7, 1943, Serial No. 497,785**
**7 Claims. (Cl. 260—412.6)**



7. A method of treating a mass of comminuted raw beef suet which has natural moisture and



fibre, in order to separate the oleo-oil from said mass while leaving substantially all said moisture and fibre in the residue of said mass, which consists in applying heat and pressure to said mass while it is in cake form, said mass being heated to a temperature which is substantially equal to the melting point of said oleo-oil, said pressure being sufficient to express substantially all the oleo-oil, said temperature and pressure being sufficiently low to retain substantially all said moisture and fibre in the residue of said mass which remains after the separation of the oleo-oil.

---

**2,388,285**
**TEXTILE PRINTING WITH LEUCO ESTER SALTS OF VAT DYES**
**Roger Ratti, Neu-Allschwil, near Basel, and Philipp Brandt, Basel, Switzerland, assignors to Durand & Huguenin A. G., Basel, Switzerland**
**No Drawing. Application March 27, 1942, Serial No. 436,530. In Switzerland April 2, 1941**
**7 Claims. (Cl. 8—70)**

1. A dyestuff composition for printing textile fibres, comprising an ester salt of a leuco vat dyestuff and a stable salt of a quaternary ammonium base containing as solubilizing group at least one substituent not ionogenically bound with the ammonium nitrogen atom, this substituent being a member of the class consisting of OH, COOH and $SO_3H$, said base being selected from the group consisting of the ammonium compounds obtained by quaternizing tertiary alkylolamines, the reaction products of alkylene oxide with salts of tertiary amines, the reaction products of alkylene oxide with salts of tertiary alkylolamines, and the reaction products of alkylene oxide with N-hydroxyethylpyridinium salts.

---

**2,388,286**
**ROCKET SHELL**
**Henry M. Renner, Cedartown, Ga.**
**Application December 28, 1942, Serial No. 470,378**
**12 Claims. (Cl. 102—38)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A round of ammunition comprising a primary propellent charge, a projectile including a rocket propellent charge and rocket tubes communicating with said propellant charge, a fuse tube leading through said projectile to said rocket charge, a disk bearing on the rear end of said projectile to transmit the thrust from the primary propellent charge to the projectile, an aperture in said disk in substantially gas tight engagement with the exterior of said fuse tube, and a delay fuse passing through said fuse tube to transmit ignition from the primary propellant to the rocket propellant.

---

**2,388,287**
**PORTABLE ANTENNA**
**Avery G. Richardson, Boonton, N. J., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware**
**Application February 27, 1943, Serial No. 477,347**
**3 Claims. (Cl. 248—192)**

1. In an antenna support comprising three base rods arranged in the form of a triangle, three support rods, each longer than a median line from an apex of said triangle to the center thereof, and adapted to be fastened at one end at a corresponding apex of said triangle and fastened together at their other ends to form a pyramid-shaped antenna support, three brace rods each longer than said support rods, and adapted to be fastened at one end at a corresponding apex of said triangle and fastened together at their other ends to form a pyramid-shaped antenna brace, fastening means at each apex of said triangle for fastening said rods, comprising a unitary member having two hollow arms extending at an angle



corresponding to the angle between the sides of said triangle and provided with tension resisting slots for detachably retaining said base rods in position, and a third hollow arm provided with a compression resisting bayonet slot for detachably retaining said support rods in position, and extending at a given angle to the plane defined by said two hollow arms, and having a fourth hollow arm member attached to said unitary member, provided with a bayonet slot for retaining said brace rods in position and extending at a predetermined angle greater than said given angle in the same plane as said third hollow arm.

---

**2,388,288**
**JOINDERS IN SHEET MATERIALS**
**William A. Ringler, Wayne, Pa., and Marshall I. Williamson, New York, N. Y., assignors to Wedglok Corporation, New York, N. Y., a corporation of New York**
**Application September 16, 1942, Serial No. 458,496**
**4 Claims. (Cl. 229—35)**



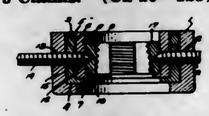
1. In a carton formed of relatively stiff paperboard, a part having a slit therein, another part having a tongue adapted to be inserted through said slit, said tongue having a folded-over part with a free transverse edge thereof serving as a transverse shoulder for abutting engagement with an edge of said slit, when the tongue is inserted through said slit in one direction, and a tab integral with said folded-over part and projecting from said free edge and through said slit in a direction opposite to said one direction and serving to bow said edge to effect such abutting engagement and thereby lock said first and second named parts relative to one another.

**2,388,289**
**ELECTRON DISCHARGE DEVICE**
**Victor L. Ronci, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application August 8, 1941, Serial No. 405,938**
**7 Claims. (Cl. 250—27.5)**



1. An electron discharge device comprising means for producing an electron stream, an electrode, a pair of electrode members between said means and said electrode defining a gap, means defining a cavity resonator including a pair of annular metallic members in juxtaposition and hermetically joined at their peripheries, each of said annular members having an inner substantially rigid portion mounting one of said electrode members and having also an outer flexible portion, and an enclosing vessel housing said first means, electrode members and electrode and constituted in part by spaced parts of the flexible portions of said annular metallic members.

**2,388,290**
**DIESTOCK**
**George Roper, Washington, D. C.**
**Application March 13, 1944, Serial No. 526,249**
**3 Claims. (Cl. 10—123)**



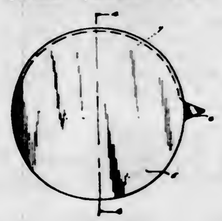
3. A die stock for the selective reception of dies of different size whose thickness varies in direct ratio to the diameter, and having a holding pit in their median diameterical plane, comprising a body having a cylindrical socket with an inwardly extending peripheral supporting lip at one end, the inner face of which lip lies in a diametrical plane, the wall of said socket having a threaded radial aperture therethrough, the axis of which is in a diametrical plane spaced from the plane of said lip a distance equal to half the thickness of the die which fits said socket, an adapter fitting in said socket supported by said lip provided with a cylindrical socket and having an inwardly extending peripheral supporting lip at its inner end, the inner face of which lies in a diametrical plane, the wall of said adapter having a radial aperture registrable with said threaded aperture, having its axis in the diametrical plane of said threaded aperture, the thickness of said adapter lip being such as to space said lip from the diametrical plane of said axis a distance equal to half the thickness of a die which fits the socket in said adapter, and a screw bolt threaded into said threaded aperture adapted to pass through the aperture in said adapter wall and enter the holding pit in a die carried by said adapter.

**2,388,291**
**MACHINE GUN**
**William B. Ruger, Greensboro, N. C.**
**Application August 7, 1940, Serial No. 351,727**
**23 Claims. (Cl. 89—33)**



1. In a machine gun of the type adapted to receive a cartridge belt and including a cartridge belt-feeding mechanism and a reciprocable breech bolt, the combination of: an action-slide; a cartridge-feeder head reciprocable forwardly and rearwardly by the action-slide and also rotatable about an axis extending longitudinally of the gun, the reciprocation and rotation of the cartridge-feeder head carrying it between a cartridge-receiving forward position adjacent to a cartridge-belt received in operative position within the gun and a cartridge-delivery rearward position adjacent to the path of the breech bolt; said cartridge-feeder head being shaped to receive and discharge a cartridge through its forward end; a belt extractor carried by the cartridge-feeder head for extracting a cartridge from such belt; and cam mechanism for rotating the cartridge-feeder head about said axis toward said delivery position after the cartridge therein has been extracted from such belt and toward said receiving position after the cartridge has been pushed out of the cartridge-feeder head by the forwardly moving bolt.

**2,388,292**
**FINGERNAIL FILE**
**Frank J. Sapyak, Sanford, Mich.**
**Application April 27, 1944, Serial No. 533,003**
**1 Claim. (Cl. 132—75.6)**



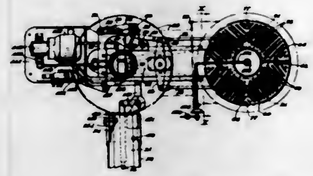
A fingernail file comprising a flat-faced metal disc having an integral radial edge projection forming a fingernail cleaner, the edge of the disc from said projection to a point diametrically opposite the projection being transversely flat and file cut, said edge from said point to the projection being transversely concave and file cut, said projection providing a finger grip to prevent turning of the disc while the file cut edge is being used.

**2,388,293**
**PROCESSES OF PRODUCING MOLDING COMPOSITIONS AND THE PRODUCTS THEREOF**
**Paul C. Schroy, Joseph Grabowski, and Milton J. Scott, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application December 3, 1941, Serial No. 421,484**
**3 Claims. (Cl. 260—24)**

2. A molding composition which can be heat and pressure molded to form a molded article having good dimensional stability and good electrical properties which comprises a filler and a resin mixture consisting essentially of a separately prepared and relatively finely ground, fusible melamine-formaldehyde resin and a separately prepared and relatively finely ground, fusible aniline-shellac-formaldehyde resin, the melamine resin comprising about 95–30% of the total resin content of said resin mixture and the aniline resin correspondingly comprising about 5–70% of the total resin content of said resin mixture.



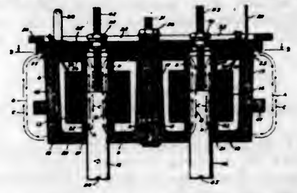
**2,388,294**
**STOKING APPARATUS**
**Chester E. Shaffer, Jersey City, N. J., and Albert Boyd Fisher, Jr., Wilkinsburg, Pa., assignors, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware**
**Application March 15, 1940, Serial No. 324,048**
**6 Claims. (Cl. 110—45)**



3. In a unitary domestic-heating system adapted to flow coke and coal from an adjacent fuel bin therefor to the combustion zone of a domestic furnace and to burn said fuel and to remove combustion-residues from the furnace, the combination of: a circular furnace-grate having a multiplicity of slot-like perforations and mounted for oscillatory movement about a vertical axis; reciprocal means for moving the grate in a sequence of regulable steps between its limits of travel; an underfeed stoker for supplying solid fuel to said grate; means comprising a reciprocatory feed plate-member for delivering fuel from said storage to said stoker; reciprocal means for movement of the plate-member in strokes of regulable length; and a reciprocatory ash bar pivotally supported for both lateral and longitudinal movement to extract combustion-residues from the furnace-hearth; and reciprocal driving means connected with the reciprocal means for the grate and for the plate-member and also with the stoker and the ash bar to reciprocate them in unison, said reciprocal means for the grate and feed plate-member each having individually adjustable means for adjusting the amplitude of their reciprocation independently of each other and of the stoker and ash bar.

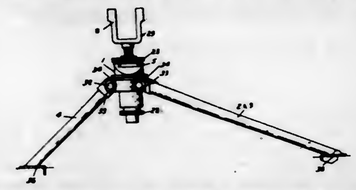
**2,388,295**
**MUTUAL COUPLING**
**Richard F. Shea, Fairfield, Conn., assignor to General Electric Company, a corporation of New York**
**Application July 2, 1943, Serial No. 493,317**
**6 Claims. (Cl. 171—119)**

1. In combination, a radio frequency transformer comprising a body member of magnetic material having a plurality of recesses therein, said recesses being separated by a wall of said body member, each of said recesses having a corresponding winding of said transformer positioned therein, and magnetic closure members for said recesses, and a continuous loop of conductive material supported in fixed position adjacent the



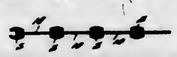
external walls of said body member and encircling said windings to provide desired mutual coupling thereof.

**2,388,296**
**TRIPOD**
**Clarence E. Simpson, Springfield, Mass.**
**Application November 5, 1943, Serial No. 509,079**
**5 Claims. (Cl. 248—183)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A support for an object such as an automatic firearm comprising in combination, a cylindrical base member having a plurality of legs pivotally secured thereto, said base member being provided with a concave partial cylindrical upper surface with a vertical axial opening extending therethrough and through the base member, a bushing mounted within said opening and provided with a part having a convex partial cylindrical surface arranged to engage said concave partial cylindrical surface whereby said bushing is pivotally supported in said base member for movement about the axis of said concave partial cylindrical surface, means for locking said bushing in a plurality of pivotal positions with respect to said base member, and a support member for said object mounted within said bushing and adapted to be elevated or depressed vertically with respect to said bushing.

**2,388,297**
**COMPOSITE ARTICLE, INCLUDING EXTRUDED SECTIONS**
**Charles E. Slaughter, New Canaan, Conn., assignor to Extruded Plastics, Inc., Norwalk, Conn., a corporation of Connecticut**
**Application July 10, 1941, Serial No. 401,881**
**7 Claims. (Cl. 154—42)**

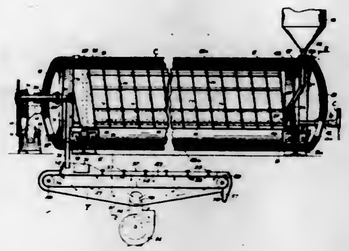


5. The method of forming composite plastic articles of extended area from plastic strips of a width of the order of not more than a few inches, which comprises inserting a synthetic resinous, plastic, substantially flat sheet having a beaded edge into an extruded, synthetic resinous, thermoplastic, substantially flat strip having

along an edge thereof, flexed walls defining a groove to receive said beaded edge, with the bead gripped within said groove by pressure exerted by said flexed walls, and self-welding the material of the plastic strips together at the line of contact.

---

**2,388,298**
**METHOD OF ROASTING VEGETABLE MATERIAL**
**Thomas J. Stephens, New York, N. Y., assignor to Frederick W. Ludwig, as trustee for the benefit of Thomas J. Stephens, Henry A. Rudkin, and Frederick W. Ludwig**
**Application August 13, 1942, Serial No. 454,694**
**9 Claims. (Cl. 99—68)**



1. A continuous process of roasting vegetable material such as coffee, nuts, beans and grains, which consists in continuously moving a stream of the material to be roasted at a uniform predetermined rate through a predetermined path in a manner to continuously intercommingle the constituents of said material, continuously feeding superheated steam at a uniform rate into said moving stream and continuously separating said material from said steam at the end of said path.

---

**2,388,299**
**METHOD OF FABRICATING MOLDS**
**Rudolf H. Thielemann, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**No Drawing. Application September 27, 1943, Serial No. 504,083**
**4 Claims. (Cl. 22—193)**

2. In the method of fabricating a mold which includes coating a fusible pattern with a refractory composition adapted to form a smooth, accurate mold lining and embedding the coated pattern in a refractory, settable, investment material, the step which comprises contacting the coated pattern with an organo-silicon halide adapted to render the refractory coating water-repellent before embedding the coated pattern in the investment material.

---

**2,388,300**
**METHOD OF MAKING REINFORCED CHIME OCNSTRUCTION FOR CANS OR CONTAINERS**
**Louis B. Wackman, Richmond Heights, Mo.**
**Application May 7, 1943, Serial No. 485,976**
**2 Claims. (Cl. 113—121)**

1. The method of making a container chime consisting of forming a flanged counter-sunk head with a pair of annular recesses in the side wall thereof, of flanging an end of a container body, of mounting the head in the flanged end of



the body, of pressing the flanges of the head and body into one of the recesses of the head, and of pressing the body into conformity with the other recess of the head.

---

**2,388,301**
**PIGMENTED ALKYD RESIN**
**William A. Waldie, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio**
**No Drawing. Application January 15, 1942, Serial No. 426,897**
**8 Claims. (Cl. 260—22)**

1. The method of making pigmented alkyd resin which comprises reacting fatty oil with an alkali to form a soluble soap, mixing a pigment, non-reactive with the materials employed in the production of the pigmented gel and pigmented alkyd resins in the form of an aqueous suspension into said soap thoroughly to coat the particles of pigment therewith, acidifying the mixture to precipitate a pigmented fatty acid gel, said fatty acids in status nascendi uniformly coating said pigment removing the water which separates out, adding the fatty acid coated pigment to the heat reaction product of a polyhydric alcohol and polycarboxylic acid and heating to approximately 450° F. to react the fatty acid with the reaction product.

---

**2,388,302**
**REMOVAL OF IRON FROM CERAMIC RAW MATERIALS**
**Woldemar A. Weyl, State College, Pa., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**No Drawing. Application March 12, 1943, Serial No. 478,959**
**3 Claims. (Cl. 22—110)**

2. The method of removing isomorphous iron from ceramic raw materials comprising subjecting said materials to a vapor of carbon disulphide and thereafter subjecting said material to a dilute acid.

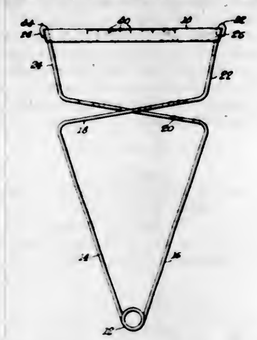
---

**2,388,303**
**ELASTIC MEASURING SCALE**
**Henry M. Wise, Jacksonville, Fla.**
**Application January 30, 1943, Serial No. 474,192**
**3 Claims. (Cl. 33—137)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. A holder for elastic measuring scales comprising a pair of spaced operating arms, a pair of spaced scale-supporting arms adapted to support an elastic measuring scale therebetween, cross-members connected between each of said scale-supporting arms and its opposite operating arm, and resilient means arranged to influence said



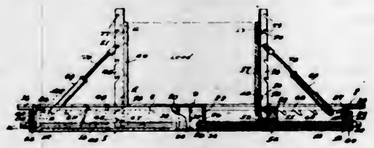
scale-supporting arms outwardly, said operating arms being movable together to separate said



scale-supporting arms to thereby elongate the elastic measuring scale.

---

**2,388,304**
**LOAD PROTECTING MECHANISM**
**Chester W. Ackerman and Emmett A. Fierbaugh, Ashland, Ohio**
**Application October 10, 1944, Serial No. 558,039**
**18 Claims. (Cl. 280—179)**

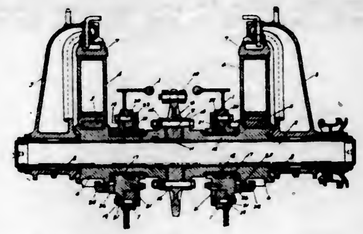


1. A load protecting device comprising a casing, a pair of arms adapted to lie flat at the surface of the casing when not raised into an inclined position, means for pivotally supporting the arms at one end thereof to permit pivotal movement of the arms from said end into an inclined position, power multiplying means for moving the said pivotal supporting means longitudinally of the casing into a desired lateral position to accommodate the width of the load to be held between the arms, an arm supporting element adapted to hold each of the said arms in an inclined position and means for changing the effective length of each of the arm supporting elements to support the arms at the desired inclination.

---

**2,388,305**
**SHIPPER MECHANISM FOR EXCAVATING SHOVELS**
**Raymond A. Beckwith, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application November 15, 1944, Serial No. 563,546**
**7 Claims. (Cl. 214—145)**

1. Shipper mechanism for power shovels, comprising a boom, a shipper shaft, mounted on the boom, a driving gear supported by said shaft, shipper pinions mounted on said shaft, dipper sticks having racks engaged by said shipper pinions, and connecting means between the shipper pinions and said driving gear comprising sleeves extending from the pinions to the driving gear at opposite sides of the latter, ends of said sleeves adjacent the driving gear and said driving gear having interlocking jaws for transmitting the



driving torque of the gear to the pinions, and fastening means common to the said sleeves for fastening them together and to the gear.

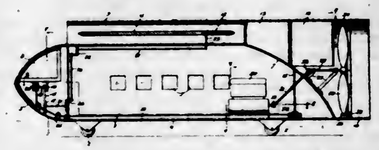
---

**2,388,306**
**METHOD OF TREATING TUNGSTATE SOLUTIONS**
**Blair Burwell, Uravan, Colo., assignor to United States Vanadium Corporation, a corporation of Delaware**
**No Drawing. Application January 23, 1943, Serial No. 473,395**
**5 Claims. (Cl. 23—24)**

4. The process which comprises adding, to a hot aqueous solution of sodium tungstate and sodium carbonate, sulfuric acid in an amount substantially that required to destroy all of the carbonate, adding enough sodium hydroxide and lime to adjust the pH of the solution to a value in the neighborhood of 9, and precipitating substantially pure calcium tungstate without precipitating any substantial amount of calcium sulfate by adding lime portionwise.

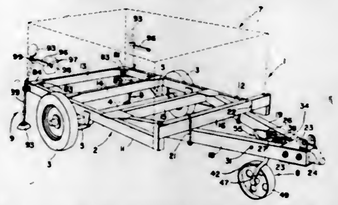
---

**2,388,307**
**AIR PROPELLED VEHICLE**
**Alexander Cargill, West Palm Beach, Fla.**
**Application January 6, 1943, Serial No. 471,487**
**2 Claims. (Cl. 180—1)**



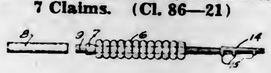
1. An air propelled vehicle of the character described comprising a fuselage including a rearwardly inclined back extending to the bottom of said fuselage, supporting wheels for the fuselage, a substantially flat wind tunnel mounted longitudinally of and on top of the fuselage, said wind tunnel including a rear end portion of circular cross section positioned rearwardly of the fuselage, a vertical plane operable in said rear end portion of the wind tunnel, a screw propeller operable in the tunnel rearwardly of the vertical plane, a power plant mounted in the rear of said fuselage, means operatively connecting said power plant to the propeller, a horizontal partition mounted in the tunnel forwardly of the vertical plane, a horizontal air current controlling plane mounted on said partition, and common means in the fuselage for actuating the planes.

2,388,308
**RETRACTABLE SUPPORT**
**Frank T. Court, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application October 7, 1942, Serial No. 461,217**
**2 Claims. (Cl. 280—33.4)**



1. A retractable support comprising a frame part, a support member having a ground engaging section and pivoted to said frame part for swinging movement between operative and inoperative positions, and a pair of interconnected toggle links, one pivoted to said support member and the other to said frame part, said toggle links being swingable into an over-center position and acting in compression when in said position for limiting the movement of said supporting member so as to hold the latter in one position, said links being swingable out of said over-center position to provide for movement of said support member into a transport position, said pivots being arranged so that as said support member moves into its other position said toggle links are moved into a second over-center position and again act in compression to lock the support member in its other position.

2,388,309
**FUSE PROTECTOR DEVICE**
**John S. Curtiss, El Paso, Tex.**
**Application October 23, 1942, Serial No. 463,034**
**7 Claims. (Cl. 86—21)**



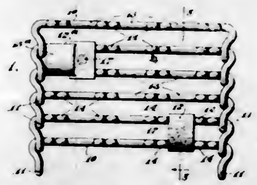
6. As an article of manufacture, an elongated stick cylindrical substantially from end to end with a plurality of rubber tubes rolled up separately onto the stick from one end and adapted to be rolled off separately from the other end of the stick onto successive detonator caps of substantially the same diameter as the stick, one end of the stick having a tip of reduced diameter receivable in the open end of the cap, the tip end being shouldered to limit the extent of its insertion into the cap and the other end of the stick being provided with a lateral projection preventing its insertion into the cap.

2,388,310
**BLASTING CAP FUSE PROTECTOR**
**John S. Curtiss, El Paso, Tex.**
**Application September 1, 1943, Serial No. 500,759**
**8 Claims. (Cl. 102—29)**



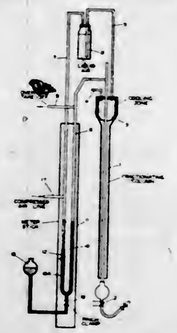
4. A device for uniting a blasting cap member and a fuse member leading thereto, comprising a substantially rigid sleeve open at both ends and adapted to slidably receive in one end the end portion of one of said members, and a tube of thin elastic, flexible, waterproof material rolled from its end on itself onto the sleeve and being stretched in such rolling and adapted to be unrolled from the sleeve onto the other member and to contract thereon to secure the members together in fixed relation and to form a watertight joint between them.

2,388,311
**PATTERN CHAIN FOR KNITTING MACHINES AND THE LIKE**
**Samuel C. Doughty, Perkasie, Pa.**
**Application August 14, 1944, Serial No. 549,418**
**5 Claims. (Cl. 66—156)**



1. A pattern chain of the character described comprising a plurality of links made from heavy wire bent and formed to provide co-acting end portions and transversely extending bar portions, pattern buttons mounted thereon, the transverse bar portion of each link having spaced straight parts adapted to receive the pattern buttons and a plurality of parts between said straight parts each provided with limiting projections positioned to confine the pattern buttons against sidewise displacement on the chain links.

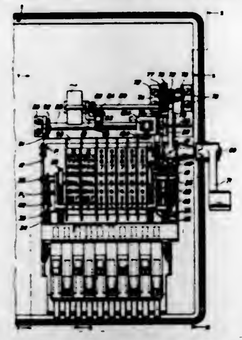
2,388,312
**AUTOMATIC PRESSURE CONTROL FOR LOW-TEMPERATURE, LOW-PRESSURE FRACTIONATING COLUMNS**
**Donald R. Douslin, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application December 7, 1942, Serial No. 468,148**
**2 Claims. (Cl. 202—160)**



1. In a fractional distilling apparatus the combination comprising a source of fluid under constant pressure, a first conduit connecting said source and a supply of cooling liquid, a distilling column, a heat exchanger for cooling the upper portion of the column, a second conduit conducting cooling liquid from the supply to the heat exchanger in response to said pressure, a bleed valve in said first conduit for varying the pressure therein, and means responsive to the pressure in said distilling column for varying the opening of said bleed valve whereby the amount of cooling liquid entering said heat exchanger is varied so as to keep said pressure in said distilling column substantially constant.



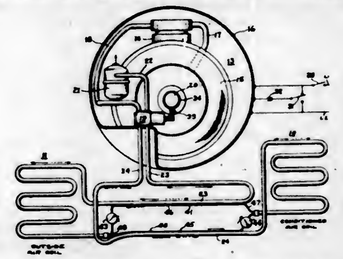
2,388,313
**TELEPHONE CALL TRANSMITTER**
**Thomas L. Dowey, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application January 25, 1944, Serial No. 519,598**
**8 Claims. (Cl. 177—380)**



4. In a call transmitter, a pivoted bar, a set of key members having cam elements of different values for operating said bar, a plurality of combined code indicating wheels, a clutch bar common to said wheels, a gearing mechanism operatively connecting said pivoted bar to said clutch bar, a transfer mechanism, motor means for actuating said mechanism to cause the successive operation of said wheels under control of said key members for setting and indicating a call, and a signaling device actuated according to the setting of said wheels for transmitting the call.

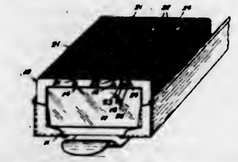
2,388,314
**AIR CONDITIONING APPARATUS**
**Rudolph J. Eisinger, Thornbury Township, Delaware County, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 14, 1942, Serial No. 430,841**
**7 Claims. (Cl. 62—129)**

1. In a reversible cycle refrigerating system for heating or cooling air for an enclosure, the combination of a compressor, first and second heat exchangers, the second heat exchanger being arranged to heat or cool air for the enclosure, first and second expansion devices connected between said heat exchangers and serving to expand refrigerant from condensing pressure to evaporating pressure during the cooling cycle and the heating cycle, respectively, each of said expansion devices comprising a passage of considerable length and restricted flow area, and means including valve mechanism and conduit portions for selectively connecting the suction and discharge of said compressor to said first and said second heat exchanger, respectively, for heating air for the enclosure, or to said second and said first heat exchanger, respectively, for cooling air for the enclosure, said conduit portions being constructed and arranged to convey the expanded



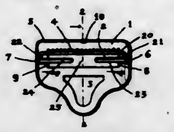
and vaporized refrigerant in counterflow heat transfer to the refrigerant in said first expansion device during the cooling cycle and to the refrigerant in said second expansion device during the heating cycle.

2,388,315
**PRINTING DEVICE INDEX**
**Harmon P. Elliott, Watertown, Mass.**
**Application May 19, 1943, Serial No. 487,548**
**6 Claims. (Cl. 129—16.5)**



6. A collection of stencils assembled together with their broad faces in mutually overlying relation, said stencils each having at least one class-indicating perforation set inward from an edge for coaction with a stencil selector mechanism, and visual indicators at said edges of the collection of stencils and opposite the respective selector perforations therein for indicating in the assembly of stencils the presence and position of the hidden selector perforations.

2,388,316
**SLIDE LOOP**
**George Henry Elwell, New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a corporation**
**Application November 18, 1943, Serial No. 510,752**
**2 Claims. (Cl. 24—170)**



1. A slide loop comprising a sheet-stock body member having an upper bar, side bars and a lower bar within which there is confined a rectangular opening through said member; bearings provided by the body member at said side bars upon opposite sides of said opening; a one-piece movable wire member of which the wire

terminals are revolvably carried within said bearings, the wire member having an upper bar and side bars, the latter, together with said terminals, carrying spacedly aligned looped wire portions providing flat intermediate bar sections each projecting toward one another across said opening and lying in one revolved position with the wire of said loops adjacent upper and lower bars of said opening and, in another revolved position presenting said looped sections in a transverse relation to said opening, said positions decreasing and increasing within said opening the passage therethrough above and below said intermediate bar sections.

---

**2,388,317**
**SLIDE LOOP**
**George Henry Elwell, New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a corporation**
**Application February 7, 1944, Serial No. 521,397**
**1 Claim. (Cl. 24—73)**



A slide loop structure comprising a single piece of wire a central portion of which provides an uppermost cross-bar of said structure; downward relatively convergent wire portions, each formed at opposite ends of said cross-bar; outward spacedly aligned cross-bar sections parallel with the plane of said uppermost bar and formed at the ends of said convergent wire portions; downward parallel wire side bars, each formed at an end of each aligned sections; inward spacedly aligned wire cross-bar sections parallel with said outwardly aligned cross-bar sections and formed at the ends of said side bars; button loop side arms depending from said inwardly aligned cross-bar sections; and a sheet-stock flat cross-bar supported by said side bars intermediate, and closely positioned to, said outwardly and inwardly aligned cross-bar sections.

---

**2,388,318**
**POLYESTERS**
**Carl J. Frosch, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**No Drawing. Application July 11, 1941, Serial No. 401,959**
**10 Claims. (Cl. 260—75)**

1. Polydecamethylene dihydromuconate of sufficiently high molecular weight to permit it to be cold drawn into fibres showing crystalline orientation along the fibre axis.

---

**2,388,319**
**CROSS-LINKED POLYESTERS AND ELECTRICAL CONDUCTORS CONTAINING THEM**
**Calvin S. Fuller, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application July 11, 1941, Serial No. 401,952**
**14 Claims. (Cl. 174—121)**

1. An infusible insoluble polymer produced by curing, with an organic peroxide, a fusible microcrystalline dihydroxy aliphatic hydrocarbon-dicarboxy aliphatic hydrocarbon polyester, said polyester possessing sufficient crystallinity and a sufficient degree of linear growth to impart the property of cold drawing when in the form of thin filaments.

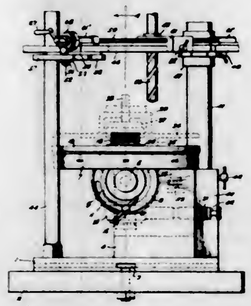
9. An electrical conductor covered with a layer comprising a fibrous material impregnated with



an infusible insoluble polymer produced by curing, with an organic peroxide, a fusible microcrystalline dihydroxy aliphatic hydrocarbon-dicarboxy aliphatic hydrocarbon polyester, said fusible polyester possessing sufficient crystallinity and a sufficient degree of linear growth to impart the property of cold drawing when in the form of thin filaments.

---

**2,388,320**
**MACHINE TOOL ATTACHMENT**
**Linzie Artemas Gardiner, Lexington, Ky.**
**Application July 19, 1943, Serial No. 495,331**
**3 Claims. (Cl. 77—64)**



2. In a machine tool attachment, a master plate having a central depending tubular bearing, an index plate disposed upon the master plate and having a depending tubular stem journaled on said bearing, said stem having a projecting threaded lower end, a ring loosely disposed on the stem and engaged with the lower end of the bearing, a nut threaded on the lower end of the stem below the ring and having peripheral ratchet teeth, and a lever having an end rotatably mounted on the nut and provided with a reversible pawl engageable with the ratchet teeth of the nut so that the lever may be used to turn the nut in either direction to draw the index plate down tightly against the master plate or to free the index plate from tight engagement with the master plate.

---

**2,388,321**
**DEHORNING PASTE APPLICATOR**
**Oscar Gereke, Stockett, Mont.**
**Application October 26, 1944, Serial No. 560,480**
**2 Claims. (Cl. 128—235)**

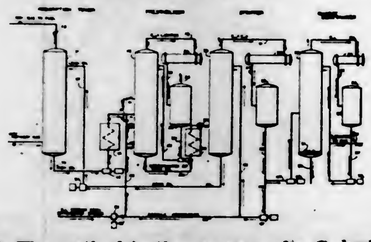
1. In a device of the kind described, a cylinder for holding a dehorning paste, means for filling a dehorning paste into the cylinder, the said cylinder being formed with a reduced and shortened duct for receiving a measured charge of the dehorning paste, means for discharging the contents of the duct, the working end of the said cylinder being concaved for receiving a porous



pad, and a porous pad mounted in the said working and concaved end of the cylinder.

---

**2,388,322**
**MANUFACTURE OF GASOLINE**
**Nelson B. Haskell, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application January 15, 1943, Serial No. 472,432**
**7 Claims. (Cl. 196—8)**



6. The method in the recovery of a $C_4$ hydrocarbon fraction from refinery gases containing $C_3$–$C_5$ hydrocarbons, which comprises subjecting the refinery gases to treatment with an absorption oil, prestabilizing the resulting rich absorption oil to remove overhead absorbed $C_3$ and lighter subjecting said overhead $C_3$ and lighter to cooling and condensation, returning at least a portion of the resulting condensate as reflux to an upper portion of said prestabilizing zone, stripping the prestabilized rich absorption oil to remove overhead a stream comprising mainly $C_4$ and $C_5$ hydrocarbons and recover a lean absorption oil which is recycled to the absorption step, subjecting said overhead stream to condensation to produce a $C_4$–$C_5$ condensate, recycling a portion of said $C_4$–$C_5$ condensate to said prestabilizing zone at an elevation below the point of reflux return thereto, fractionating another portion of said $C_4$–$C_5$ condensate to separate a $C_4$ fraction overhead from heavier hydrocarbons, condensing said overhead $C_4$ fraction and discharging at least a portion of said condensate as the recovered $C_4$ hydrocarbon fraction.

---

**2,388,323**
**HYPODERMIC SYRINGE UNIT**
**Edward Henderson, New York, N. Y.**
**Application January 8, 1943, Serial No. 471,689**
**2 Claims. (Cl. 128—215)**

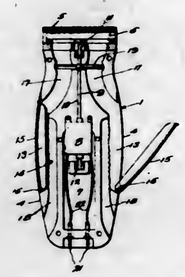
1. A hypodermic syringe unit comprising a tubular, transparent, rubbery barrel member having an end closure projecting beyond said barrel member and an open end adapted to be sealed to retain liquid in the barrel, a hypodermic needle secured in said end closure having its point projecting from said barrel and its other end communicating with the interior of the tubular barrel, a detachable, rubbery hollow cap



member having an open end receivable on said end closure and a thickened closed opposite end portion spaced from said open end such a distance that when the cap member is received on said end closure the thickened end portion is penetrated partially by the point of said needle and seals the latter.

---

**2,388,324**
**MOTOR-OPERATED SHAVER**
**Carl W. Holcomb, Camp Davis, N. C.**
**Application July 7, 1944, Serial No. 543,909**
**2 Claims. (Cl. 30—41)**



1. In a shaver of the class described, an elongated flat casing forming a handle, a hollow cutting head at one end of the casing including a reciprocating cutting element, a pair of grooves extending along opposite side edges of said casing, with bottoms of reticulated material and forming storage chambers for cuttings, inlet means in the casing establishing communication between said head and chambers, a pair of discharge ducts in the casing extending along said bottoms behind said grooves and to the other end of the casing, a motor-driven suction fan in said casing operative to create a forced draft through said head and means and said chambers and hinged covers for said grooves.

---

**2,388,325**
**SPINNING PROCESS FOR ARTIFICIAL FILAMENTS**
**Ray Clyde Houts, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application March 4, 1944, Serial No. 525,690**
**1 Claim. (Cl. 18—54)**

In the process for manufacturing filaments, yarns, threads, films and like structures of polyvinyl alcohol wherein an aqueous solution of polyvinyl alcohol is coagulated in an aqueous solution of ammonium sulfate to form a coagulated polyvinyl alcohol structure containing residual

ammonium sulfate, the improved step which comprises washing said coagulated polyvinyl alcohol structure substantially free of said ammonium sulfate with a solution consisting of equal parts by volume of acetone and water.

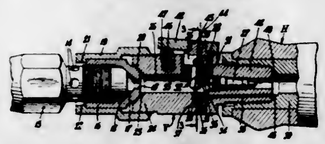
---

2,388,326
**MOISTUREPROOF SHEET**
**William L. Hyden and James A. Mitchell, Kenmore, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application January 27, 1943, Serial No. 473,700**
**8 Claims. (Cl. 117—145)**

7. An article of manufacture comprising a nonfibrous, transparent regenerated cellulose base sheet coated with a moistureproofing composition having incorporated therein from about 0.05% to about 10% by weight, based on the weight of the composition, of finely divided 1,2-dihydronaphthalene polymer of a particle size having a maximum linear dimension within the range of from about 0.25 to about 1.5 microns.

---

2,388,327
**TORCH**
**Wilgot J. Jacobsson, Plainfield, and Lloyd W. Young, Scotch Plains, N. J., assignors to Union Carbide and Carbon Corporation, a corporation of New York**
**Application April 16, 1941, Serial No. 388,782**
**1 Claim. (Cl. 251—134)**

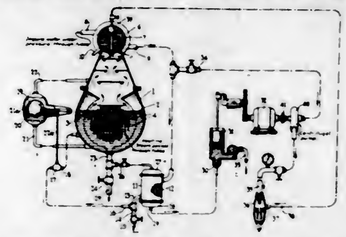


A hollow body having an opening extending through the wall thereof to the outside of said body, and an outwardly facing shoulder in said opening; a control device in said body having a stem normally in one position but movable in opposite directions to operate said device; a trigger in said opening pivotally mounted on said body on a fixed axis, said trigger having an inner end disposed inside said body in a position to push said stem in a direction to operate said device upon application of pressure to said trigger, said trigger having a flange portion in said opening; and an apertured sealing member of resilient material within said opening, between and in contact with said flange portion and said shoulder, said sealing member having sealing surfaces sealingly engaging portions of said trigger and the wall of said opening, said sealing member acting, upon release of pressure from said trigger, to restore said trigger to its normal position and thereby release said stem to its normal position.

---

2,388,328
**STILL**
**George T. Jacocks, New Rochelle, N. Y., assignor to Heat Transfer Products, Inc., New York, N. Y., a corporation of New York**
**Application May 14, 1942, Serial No. 442,934**
**7 Claims. (Cl. 202—52)**

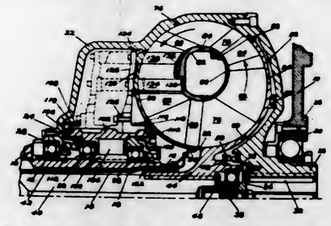
1. The method of distilling water vapor from impure water which comprises subjecting the vapor to the cooling action of a fluid under pressure and then directing the fluid from a zone of



low velocity to a zone of high velocity and by said velocity change creating a partial vacuum in the space receiving the water vapor.

---

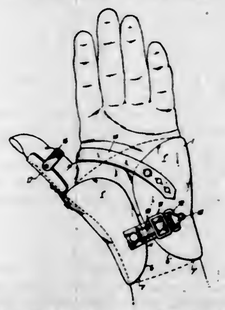
2,388,329
**FLUID TORQUE CONVERTER**
**Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware**
**Application June 30, 1943, Serial No. 492,967**
**5 Claims. (Cl. 60—54)**



1. A fluid torque converter comprising driving and driven elements each having two sets of fixed streamline vanes arranged in series, the vanes of the forward set having high lift and pronounced overbend, and the vanes of the second set having relatively low lift.

---

2,388,330
**WRIST PROTECTOR**
**Martin Jungmann, New York, N. Y.**
**Application August 5, 1943, Serial No. 497,478**
**3 Claims. (Cl. 2—16)**

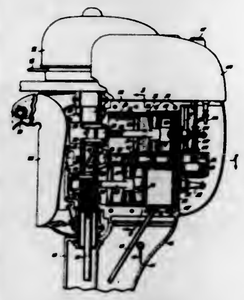


1. A wrist-protector consisting of a cuff-like body of an unextensible material yielding to flexion around its longitudinal axis but only slightly yielding in other directions, said body being adapted to accommodate the wrist, and form a continuous cover on the back of the hand, said cover slightly extending beyond the knuckle of the ulna, while its lower edge is spaced ¼"–½" from the distal knuckles of the metacarpals, said body bending and turning around the metacarpal bones of the thumb, and the fifth finger, respectively, and accommodating the ball of the thumb and the ball of the fifth finger on the palm of the hand, being open on the volar side of the hand, said body being provided with an unelastic holding strap provided in the space between the thumb and index finger, and with an elastic strap for joining together spaced end portions of the wrist-protector on the volar side of the hand.



---

2,388,331
**FUEL SUPPLY FOR TWO-CYCLE, CRANK-CASE COMPRESSION ENGINES**
**Leo T. Kincannon, Milwaukee, Wis., assignor to Metal Products Corporation, Milwaukee, Wis., a corporation of Wisconsin**
**Original application April 14, 1943, Serial No. 482,967. Divided and this application August 4, 1944, Serial No. 548,107**
**4 Claims. (Cl. 123—73)**

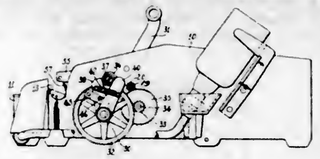


2. In an outboard motor having a swingable frame pivoted to a fixed frame, said swingable frame carrying a motor having an engine cylinder below said pivot, a piston working in said cylinder, a crankcase, a crank shaft vertically journalled in said swingable frame and operatively connected to said piston, a fuel feed chamber mounted on the rear of said frame adjacent the head end of said cylinder, a high speed operation fuel mixture passage connecting said feed chamber with the crankcase, and a low speed operation fuel mixture passage connecting said feed chamber with said crankcase, said cylinder having a mixture inlet port connected with said crankcase and controlled by said piston.

---

2,388,332
**TAPE-DISPENSING MACHINE**
**Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut**
**Application March 8, 1945, Serial No. 581,637**
**20 Claims. (Cl. 164—49)**

1. A tape-dispensing machine comprising means for feeding the tape forwardly, an oscillatable driving member by which power is applied to feed the tape, said member having a one-way drive connection with said feeding means, and means for positively locking said feeding means against



overthrow at the end of the feeding stroke of said member.

---

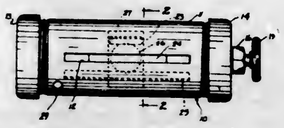
2,388,333
**SHOE**
**Fred N. La Chapelle, Beverly, Mass., assignor to Sidney H. Huberman, Boston, Mass.**
**Application December 8, 1941, Serial No. 422,112**
**3 Claims. (Cl. 36—17)**



1. In a shoe, a sole construction comprising an insole, a lip or the like attached to the insole and following the contour thereof, a relatively thick filler block secured to said lip and resting in flat parallel relation on said insole, said filler block being located substantially within the confines of said lip, an outsole lying over the filler block and lip, heel fasteners, said outsole and filler block being effective to receive said heel fasteners to secure a heel to the shoe, a heel held to said outsole and filler block by said fasteners, the latter extending through the outsole and penetrating the filler block, the outsole and filler block forming only receiving and holding means for the heel fasteners in securing the heel to the sole.

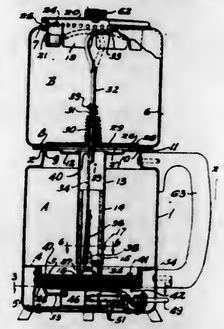
---

2,388,334
**COMBINATION VALVE NOZZLE**
**William H. Leinweber, Chicago, Ill.**
**Application January 15, 1944, Serial No. 518,360**
**1 Claim. (Cl. 299—138)**



A combination nozzle and valve comprising a sleeve having an elongated slot formed therein, caps closing the ends of the sleeve, a cylinder having closed ends arranged for rotation in the sleeve and having a plurality of spaced slots formed therein each adapted to register with the slot of said sleeve, a handle, means for connecting the handle to the cylinder to facilitate rotating the latter, means for delivering a fluid to said cylinder, said means comprising a nozzle carried by the sleeve and having an end projecting through an elongated slot formed in the cylinder and having said end provided with opposite outlet ports.

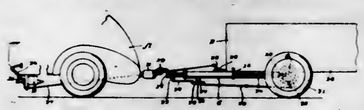
**2,388,335**
**COFFEE MAKER**
**Paul J. McCullough, St. Louis, Mo., assignor to Joseph Pavelka, St. Louis, Mo.**
**Application September 5, 1942, Serial No. 457,423**
**7 Claims. (Cl. 99—292)**



1. In a coffee maker, a liquid container forming a boiler chamber with an upwardly facing annular rim, an elevated bowl with its bottom wall seated on said rim and provided with a depending tube open at both ends, the lower end of the tube extending to the lowermost portion of the container and the container being sealed from the atmosphere except through said tube, an upstanding knob on said container bottom wall extending into the lower portion of said tube and having a lateral recess forming a downwardly facing shoulder, an elongated member accessible through the top of the bowl and provided with means engaging the upper face of the bottom wall of the bowl and extending downwardly through said tube and terminating at its lower end in a latch disposed to engage said shoulder to lock the bowl and container together.

---

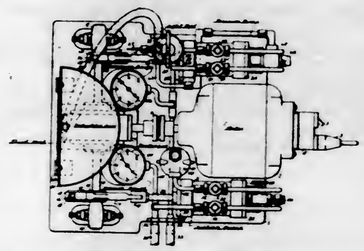
**2,388,336**
**AUTO TRAILER BRAKE**
**Leo G. Miller, Wichita, Kans.**
**Application September 25, 1943, Serial No. 503,802**
**2 Claims. (Cl. 188—142)**



1. In a draft vehicle having brake mechanism, and a trailer having brake mechanism, a tongue device connecting the draft vehicle with the trailer and comprising relatively slidable telescoping sections, one of which has a piston head receivable in the other and normally positioned at an intermediate point between its ends, a pair of springs in said latter section in front and in back of the head to normally center the same in a neutral position, said latter section having securing ears at the rearmost end thereof, a cross bar parallel to the axle of said trailer, links coupling said cross bar to said axle, said cross bar being secured to said latter section by means of said securing ears at right angular relation therewith, a universal female member on the forward end of said first section, a universal male member fixed centrally to the rear bumper of said draft vehicle adapted to coact with said female member to universally join the forward section to said draft vehicle, a latch device engaging said head in the neutral position and connected with the brake mechanism of the draft vehicle for actuation to release the head on braking of the draft vehicle a pivoted rocking lever on the latter section, and link connections to the first section and to the trailer brake mechanism to actuate the trailer brakes when the sections are released to move relative each other.

---

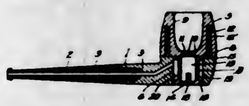
**2,388,337**
**METHOD FOR PREPARING CADAVERS FOR BURIAL**
**Clay P. Moody, North Bend, Oreg.**
**Application December 11, 1939, Serial No. 308,681**
**9 Claims. (Cl. 27—22)**



1. In the art of embalming, the method of injecting liquid which comprises forcing liquid into a body at pressures below a limited maximum pressure in opposition to resistance to flow of the liquid in the embalming operation, and imposing a continuing succession of force impulses simulating normal heart beat upon the injected fluid, whereby said resistance may be gradually overcome.

---

**2,388,338**
**TOBACCO PIPE**
**Reinhold H. Mueller, St. Louis, and Gerald W. Fossieck, St. Louis County, Mo.**
**Application September 28, 1943, Serial No. 504,192**
**3 Claims. (Cl. 131—225)**



1. A smoking pipe having, in combination, a lower bowl section, said section having a vertical bore normally open at its ends, internal screw-threads at the lower end of said bore, an upwardly projecting ringlike tongue on the upper face of the said section, a stem projecting from said bowl section having a smoke passage centrally of the outer end of the stem and leading from the bore of the bowl section adjacent the upper edge thereof, an upper bowl section, said upper section having a flat bottom face, and thereabove a tobacco cavity, an annular space surrounding the major portion of the tobacco cavity and open at its lower end, heat resisting material within said space except for a minor part thereof to provide an annular groove in the lower flat face of the upper bowl section to tightly receive the tongue of the lower bowl section, said upper bowl



section having a small diameter central downdraft smoke opening and a plurality of like openings spaced therefrom with all of openings open to the lower flat face of the upper bowl section and open to the tobacco cavity, a hollow insert member, the major length thereof from the top downwardly being of less diameter than the bore of lower bowl section, the remaining length of the insert member being of greater diameter than said last mentioned bore and provided with external screw-threads adapted to engage the aforesaid internal screw-threads when the insert member is inserted into the lower bowl bore causing the upper face of the insert member to contact the lower flat face of the upper bowl section surrounding the downdraft openings to provide a mixing chamber below said openings and to provide an annular chamber surrounding the insert member, an updraft fresh air opening central of the bottom of the insert member, and a smoke outlet opening in the side wall of the insert member so disposed as to cause the smoke to travel around the insert member before entering the smoke passage to the stem leading from the wall of the bore of the lower bowl section.

---

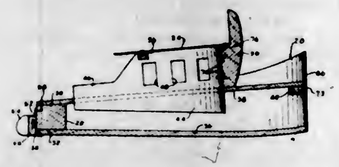
**2,388,339**
**METHOD OF COATING PAPER**
**Clarence Paxton and Thomas H. Vail, Hamilton, Ohio, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio**
**Application April 21, 1942, Serial No. 439,862**
**5 Claims. (Cl. 117—64)**



2. Process of making coated paper which comprises applying aqueous suspension of mineral pigment and adhesive to a web of paper, spreading and smoothing the coating by contacting the coating while in a substantially fluent state with reversely turning rolls, and steaming the paper in the zone where the rolls contact the paper.

---

**2,388,340**
**TOY BOAT CONSTRUCTION**
**Walter L. Ripley, Sharpsburg, Md., assignor to Gladys A. Ripley, Sharpsburg, Md.**
**Application November 20, 1944, Serial No. 564,257**
**8 Claims. (Cl. 46—93)**



1. A toy boat comprising a hull having a deck provided with an opening; a unitary strip of sheet material, bent to form the sides and forward wall of a cabin, said strip having its lower portion slidably fitted into and frictionally held in the opening of the deck; and a cabin top forming deck member secured on the upper edge of the said strip.

---

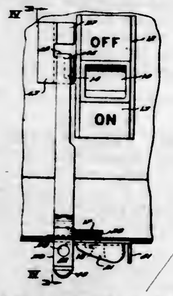
**2,388,341**
**SKIRT CONSTRUCTION**
**Jack H. Rudolph, De Kalb, Ill.**
**Application October 2, 1943, Serial No. 504,788**
**3 Claims. (Cl. 2—211)**



1. A skirt comprising a front panel and a rear panel, vertical seams joining said front and rear panels, flaps disposed on the opposite sides of said seams, a waist band in the form of two sections secured to said front and rear panels, extensions formed on certain ends of said sections adjacent to and in alignment with one of the seams of said panels, and placket members secured adjacent the other seam of said panels, one of said placket members extending vertically along said last named seam and having a fold stitched to an extension formed on one of said waist band sections whereby said skirt may be altered by making adjustments on the vertical seams only.

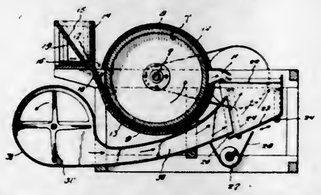
---

**2,388,342**
**ELECTRIC SWITCH**
**Carl A. Schaefer, Whitefish Bay, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan**
**Application May 6, 1943, Serial No. 485,795**
**13 Claims. (Cl. 200—50)**



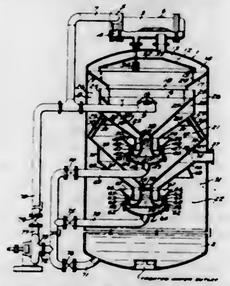

1. In an enclosing cabinet for an electric switch, a casing, a cover for said casing, a manually movable handle for effecting operation of said electric switch and operable from the exterior of the cover, a plurality of elements provided on the interior of the cover and the casing and interengageable when the cover is moved to closed position to latch the cover closed, releasing means carried by said cover at the exterior thereof and manually operable to disengage said elements to permit opening of the cover, means fixedly supported upon an interior surface of said cover, and a portion of said manually movable handle being engageable with said fixed means when said manually movable handle is in the "on" position to prevent the cover being opened even though the releasing means is operated to cover disengaging position.

**2,388,343**
**SMUT REMOVER AND GRAIN CLEANER**
**Henry Schmidt, Forsyth, Mont.**
**Application August 31, 1943, Serial No. 500,690**
**2 Claims. (Cl. 83—36)**



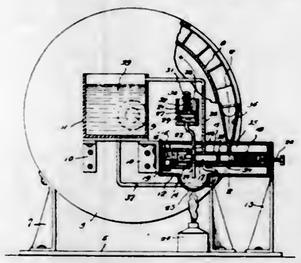
1. A smut remover and grain cleaner comprising a horizontal support, smut loosening and removing means mounted on a middle portion of the support, a box-like structure mounted for swinging movement on one end portion of the support and having one inner side and top of said box-like structure open and the bottom thereof sloping toward the open side, a horizontal screen covering the top opening of the box-like structure for admitting grain therethrough to the box-like structure after having been previously treated to loosen smut thereon in the said smut loosening and removing means, means for imparting swinging movement to the box-like structure, an air blast means on the support and including a longitudinal discharge conduit extending under said smut loosening and removing means and provided with a flared end extending into the box-like structure and substantially closing the open side of the box-like structure but leaving a space sufficient to permit grain to gravitate from the open side of the box-like structure and past the flaring end of said conduit, a transverse trough located on the support below said box-like structure for receiving grain gravitating from the open side of the box-like structure between the bottom of the latter and the flared end of the conduit, and a vertical conveyor means for carrying the grain off from the trough at one end of the latter to an upper laterally disposed discharge spout.

**2,388,344**
**DEAERATING FEED-WATER HEATER**
**Joseph F. Sebald, Bloomfield, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware**
**Application October 3, 1944, Serial No. 557,018**
**12 Claims. (Cl. 261—36)**



1. In a liquid heating and deaerating apparatus, an initial treatment chamber, means for introducing liquid to be treated to said chamber, a plurality of supplementary treating chambers, confined mixing passages for liquid and steam including means for delivering liquid from said initial treatment chamber to the successive confined mixing passages, said confined mixing passages each discharging liquid and steam into one of said supplementary treating chambers, means for delivering steam to one of said confined mixing passages and successively to the remainder of said plurality of mixing passages and said initial treatment chamber, and means for recirculating finally treated liquid back to the initial treatment chamber.

**2,388,345**
**STEAM GENERATOR**
**Glen Anderson Skaggs, Portsmouth, Va.**
**Application April 20, 1944, Serial No. 531,931**
**4 Claims. (Cl. 122—41)**



1. A steam generator of the kind described comprising a steam generating chamber, a valve casing in the chamber, a steam feed passage leading from the chamber through the casing to the utility to be supplied with steam, a water supply pipe communicating with the casing, a water discharge pipe leading from the casing to the chamber, a steam pressure responsive piston having a cylindrical valve connected thereto and working in the valve casing, said valve having spaced circumferential grooves therein, one of said grooves being adapted to register with the steam passage to open and close communication therethrough and the other groove being adapted to alternately register with the water feed and discharge pipes to periodically supply water to the steam generating chamber, and spring means normally urging the valve in one direction against the action of the steam pressure but yielding to movement of the valve in the opposite direction under pressure of steam generated in said generating chamber.

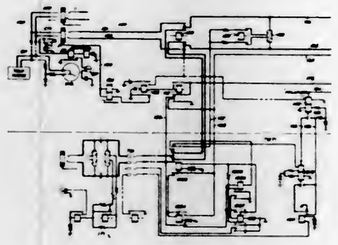
**2,388,346**
**RUBBER COMPOSITIONS CONTAINING HYDROCARBON RESINS**
**Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application October 28, 1941, Serial No. 416,867**
**8 Claims. (Cl. 260—4)**

1. A composition comprising rubber selected from the group consisting of natural rubber and rubber-like polymers of butadiene, isoprene, piperylene and 2-chlorobutadiene, and from 5% to 100% based on said rubber of hydrocarbon resin polymer selected from the group consisting of heat resin polymer and catalytic resin polymer of polymerizable hydrocarbons contained in a hydrocarbon oil which has been physically separated from tar produced in the vapor phase pyrolysis of petroleum oil and which is free from



and of greater volatility than the pitch of said tar, said hydrocarbon oil when separated and when subjected to polymerization containing in addition to hydrocarbons boiling between 210° C. and 350° C. which are not polymerizable by the application to said oil of heat alone but which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst, other hydrocarbons boiling between 210° C. and 350° C. which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst but which last-mentioned hydrocarbons are also polymerizable to heat resin polymer by the application to said oil of heat alone, said last-mentioned hydrocarbons being present in said hydrocarbon oil in amount greater than approximately 5% of the total hydrocarbon oil boiling between 210° C. and 350° C.

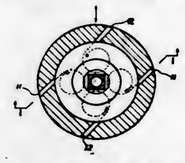
**2,388,347**
**SIGNALING SYSTEM**
**Elliot M. Staples, Hohokus, N. J., and Edmund R. Taylor, Pelham Manor, and Henry J. Michael, Astoria, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application June 27, 1944, Serial No. 542,356**
**11 Claims. (Cl. 179—43)**



1. In a signaling system, a trunk line, a trunk circuit connected to one end of said line, a link connected to said trunk circuit, means responsive to disconnection of said link from said trunk circuit for transmitting over said trunk line a disconnect signal consisting of current of one of two frequencies followed by current of the other frequency for a predetermined interval of time and then in recurring cycles current impulses of said two frequencies alternately for a predetermined interval of time followed by current of said other frequency for a predetermined interval of time, release control means at the other end of said trunk line responsive to a disconnect signal consisting of current of said one frequency followed by current of said other frequency for a predetermined minimum interval of time, signal transmitting means at said other end of said trunk line rendered effective by said release control means responsive to a disconnect signal to transmit over said trunk line a disconnect acknowledgment signal consisting of current impulses of two particular frequencies alternately, control means at said one end of said trunk line for terminating the transmission of said disconnect signal, and means operated by disconnection of said link from said trunk circuit for rendering said control means operatively responsive to said disconnect acknowledgment signal.

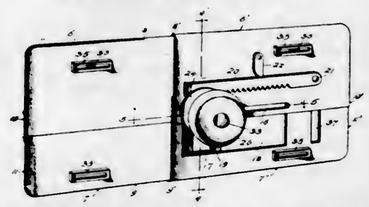


**2,388,348**
**GAS MANUFACTURE**
**Edward Eric Stimson, Spondon, near Derby, England, assignor to British Celanese Limited, London, England, a company of Great Britain**
**Application January 1, 1943, Serial No. 471,038**
**In Great Britain January 20, 1942**
**3 Claims. (Cl. 48—203)**



1. Method of producing industrial gas mixtures containing carbon monoxide and hydrogen, which comprises injecting a carbonaceous material and steam into a substantially circular reaction chamber in a direction not coinciding with a radius of said chamber so as to form a vortex and injecting carbonaceous material and oxygen into said chamber in the same plane and in a direction opposed to the direction of injection of the carbonaceous material and steam to form a second vortex, the oxidation of the carbonaceous material in the second vortex supplying heat to the reactants.

**2,388,349**
**MOTOR VEHICLE IDENTIFICATION TAG HOLDER**
**Carl T. Storm and Louise H. Storm, Detroit, Mich.**
**Application April 18, 1944, Serial No. 531,584**
**6 Claims. (Cl. 40—125)**

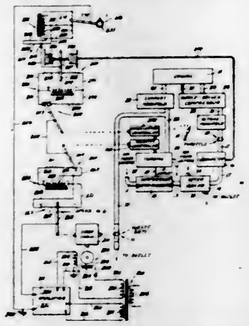


1. In a license tag holder, a plurality of slidably overlapped plates having slidably telescoped hook flanges to engage the edges of the license tag, a manually rotatable operating member mounted on one of said plates, pinions secured to said operating member, racks meshing with said pinions and connected with certain of said plates for relatively sliding said plates to engage their hook flanges with the tag as said operating member is rotated, at least one of said racks being connected for unmeshing with its cooperating pinion when initially adjusting the plates to the tag, and means engageable with one of said racks to hold it in mesh with said cooperating pinion after said initial adjustment.

**2,388,350**
**CONTROL APPARATUS**
**Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application February 22, 1943, Serial No. 476,802**
**5 Claims. (Cl. 230—5)**

1. Apparatus for controlling the pressure of the air supplied to the intake manifold of an internal

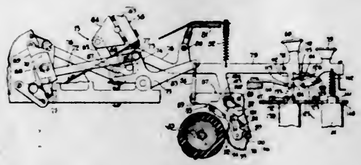
combustion engine provided with a turbine-driven compressor powered by exhaust gases from said engine, comprising in combination, a modulatingly variable control device, means including said device for controlling the speed of said compressor, and means responsive to the speed of said compressor for operating said control device at



a predetermined rate in a speed decreasing sense as long as said compressor speed exceeds a predetermined range of values and at a relatively low predetermined rate in the opposite sense as long as said compressor speed is below said predetermined range of values and until said control device assumes a normal position.

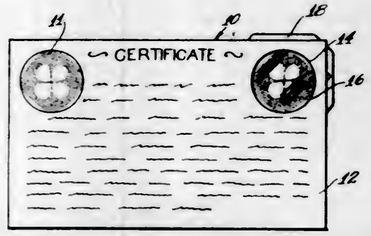
---

**2,388,351**
**SIGNAL CONTROLLED PRINTING APPARATUS**
**Henry L. Tholstrup, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application December 22, 1944, Serial No. 569,288**
**7 Claims. (Cl. 197—74)**



1. In signal controlled printing apparatus of the type wherein case shifting is effected by the movement of a shift lever against the force of a spring from a normal position to a second position and wherein said shift lever is held locked in said second position by a hook pivoted to said shift lever and engageable with a stationary latch member, the combination with said lever, hook, and latch member, of a first magnet operable when energized to move said shift lever to said second position; a second magnet operable when energized to move said hook from an unlocked position to a locking position where it operatively engages said latch member when said first magnet is deenergized; means providing a signal impulse; and electrical circuit means including said magnets and responsive to said signal impulse means for energizing said first magnet first and then energizing said second magnet and for deenergizing said first magnet first and then deenergizing said second magnet.

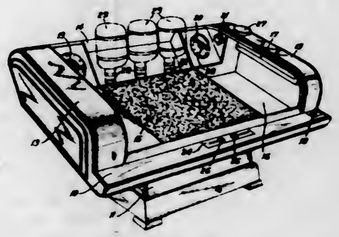
**2,388,352**
**COMPARING DEVICE**
**Bruce R. Vent, Michigan City, Ind., assignor to Temp-R-Lens Corporation, Michigan City, Ind., a corporation of Indiana**
**Application April 27, 1942, Serial No. 440,707**
**10 Claims. (Cl. 35—50)**




1. A fold-over flexible comparing device adapted for comparing two stress patterns one of which appears in a lens and is normally invisible, comprising a body portion having front and rear portions, said front portion having an aperture therethrough, a polaroid skin covering said aperture and secured to said front portion, said rear portion having an aperture therethrough in registry with said first-mentioned aperture when the comparing device is in folded form, a polaroid skin covering said second-mentioned aperture and secured to said rear portion, said polaroid skins having their axes disposed at right angles one to the other so that light does not normally pass therethrough, and a picture of a stress pattern disposed on the front part of said front portion in spaced-apart relation to the aperture pasing therethrough, whereby a stress pattern appearing in a toughened lens disposed between said polaroid skins can be compared with said picture of a stress pattern disposed on the front part of said front portion.

---

**2,388,353**
**LECTERN**
**Thomas J. Watson, New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application April 24, 1942, Serial No. 440,414**
**1 Claim. (Cl. 45—6)**



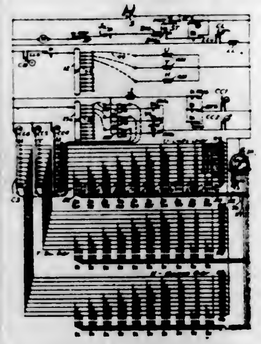
A speaker's table comprising a base, a column-like supporting structure extending upwardly from said base; a top carried by the upper part of said column-like structure and being formed with a rear part behind which a speaker may stand, a front part opposite said rear part, and



a pair of ends joining, respectively, the adjacent ends of said rear and front parts; said top also including a centrally located plate providing an upper surface adapted to support the speaker's notes when being used, and said top being formed with a recess in the front part thereof disposed forward of said plate and having a defining wall part arranged below the level of adjacent parts of the note supporting surface and said recess being adapted to contain acoustic detectors; said top also including a pair of similar wall members extending laterally from the two opposite sides, respectively, of said plate and extending below the level of said plate and terminating outwardly adjacent said two ends to provide a pair of storage places for notes not being used, symmetrically disposed on opposite sides of said plate; the two ends of said top including wall means providing a pair of lamp shades adapted to contain lamps therein and said shades being constructed so that they open inwardly toward said plate to direct light thereon from both sides.

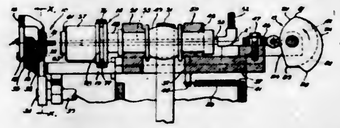
---

**2,388,354**
**ACCOUNTING MACHINE**
**John N. Wheeler, Hawthorne, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application January 15, 1943, Serial No. 472,466**
**10 Claims. (Cl. 235—61.7)**



1. In a cyclically operating machine having sensing means to which records are fed, one each cycle, to be sensed for value representations and having a value register progressively moved through successive value positions under control of the sensing means and in accordance with a value representation sensed thereby on a record, the combination with value readout means associated with the register, of supplemental sensing means to which each record is fed to be sensed for value representations after such representations have been sensed by the first mentioned sensing means, a machine control device, and means controlled conjointly by the supplemental sensing means and the value readout means for selectively governing the machine control device according to whether the value position read out by the readout means, at the time the supplemental sensing means senses the value representation on the record, is consistent with the representation on the record being sensed by the supplemental sensing means.

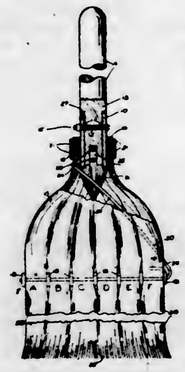
**2,388,355**
**MACHINE FOR SHAPING FASTENERS**
**Donald W. Fether, Downey, Calif., assignor of twenty-four per cent to Robert Donald Fether, and twenty-four per cent to Donna Winifred Fether, both of Los Angeles, Calif.**
**Application December 16, 1943, Serial No. 514,466**
**5 Claims. (Cl. 82—2)**



1. Mechanism for shaping stemmed fasteners, comprising automatic means for feeding a succession of individual fasteners into and out of alinement with a working axis, means holding each fastener stem against rotation when alined with said axis, a rotatably driven cutter body having a bore and movable axially with relation to said stem to receive the stem within said bore, a cutter carried by said body and movable radially with relation to a stem received within said bore, a spring resisting radial movement of the cutter toward the stem, cam means for advancing said body toward the stem, yielding means resisting such advancement of said body, and cam means operating at an advanced position of the body to move said cutter radially against the stem to form an annular recess in the outer surface thereof.

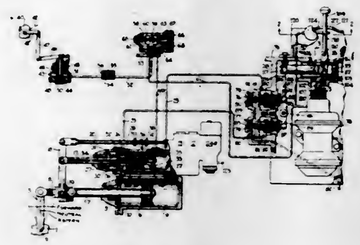
---

**2,388,356**
**CLEANING BROOM**
**Jonas Friedel, Omaha, Nebr.**
**Application January 31, 1944, Serial No. 520,455**
**1 Claim. (Cl. 15—170)**



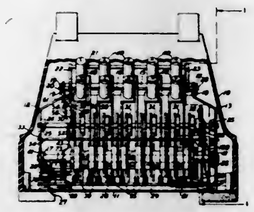
In a broom, a handle, a quantity of resilient parallel broom straws having end portions disposed about an end of said handle, and a wire having a plurality of spaced apart loops thereon disposed approximately midway between the ends of said straws, said loops being disposed through said quantity, said wire having a portion disposed through said loops for binding said straws in a plurality of bunches disposed side by side, said wire having a further extended portion snugly disposed about said end portions of said straws and handle for securing said straws and handle together.

2,388,357
**CONTROL APPARATUS**
**Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application January 29, 1943, Serial No. 473,922**
**32 Claims. (Cl. 192—.01)**



1. In combination, a control lever having a first position for effecting a desired operation, a second position for effecting a different desired operation and being movable beyond said second position for effecting a still different desired operation, a member arranged to prevent movement of said lever from said second position to said first position, actuating means conditioned upon said movement of said lever beyond said second position to render said member effective, and timing means cooperative with said actuating means upon return of said lever from beyond said second position to said second position to maintain said member effective for a certain interval of time after said return of said lever to said second position.

2,388,358
**IMPULSE TRANSMITTER**
**Francis A. Hubbard, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application July 24, 1943, Serial No. 495,983**
**12 Claims. (Cl. 177—380)**

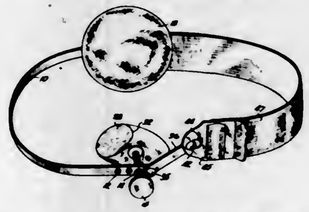


1. The combination in an impulse transmitter of an impulse counter, means for variably presetting said counter to predetermine the number of impulses to be transmitted by said transmitter, means for operating said counter to count off the predetermined number of impulses, a plurality of manually depressible keys, means controlled by said keys during the depression thereof for actuating said presetting means, means controlled by said keys when fully depressed for causing the actuation of said counter operating means, and pulsing contacts actuated by said counter operating means.

2,388,359
**PREPARATION OF p-CYMENE FROM A MONO-CYCLIC TERPENE**
**Washington Hull, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Original application January 9, 1943, Serial No. 471,878. Divided and this application December 11, 1943, Serial No. 513,990**
**3 Claims. (Cl. 260—668)**

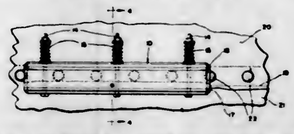
1. A process of producing p-cymene which comprises the steps of maintaining a catalyst body at a temperature of from about 375°-500° C., completely vaporizing a monocyclic terpene having a single isopropyl side chain at a rate of from 0.1–1.0 part of liquid terpene per part of catalyst by volume, passing the completely vaporized terpene over the heated catalyst, whereby a major portion of the terpene is converted to p-cymene, condensing the condensable portion of the reaction vapors and isolating the p-cymene content therefrom; said catalyst body comprising 1–3 mol parts of a substance selected from the group consisting of $Cr_2O_3$, $CrO_3$ and mixtures of the same, together with from 1 to 3 mol parts of tin oxide, supported on a carrier having a high surface activity by exhibiting substantially no tendency to crack off the isopropyl side chain at an operating temperature.

2,388,360
**TRUSS**
**Elmer Hyatt, Cleveland, Ohio**
**Application February 10, 1943, Serial No. 475,359**
**4 Claims. (Cl. 128—106)**



1. A truss appliance comprising a resilient bow-shaped frame, a bracing pad connected with one end of said frame, a hollow pressure-adjusting screw threaded through the opposite end of the frame, and a treatment pad comprising a body of pad material having a stem loosely fitting within the open end of said adjusting screw.

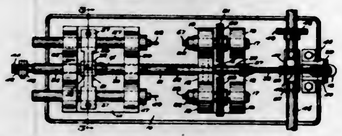
2,388,361
**SCRIBING TOOL**
**Alfred James Lynex, Buffalo, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware**
**Application August 5, 1944, Serial No. 548,243**
**1 Claim. (Cl. 33—41)**



A device for scribing lines on surfaces at a predetermined distance from a series of protuberances from such surfaces, comprising a pair of cooperating jaws adapted to simultaneously engage at least two of said protuberances, said jaws having faces with intermediate portions substantially parallel to each other, a tapering end on at least one of said jaws, spring means urging said jaws towards each other, a spacer element between said jaws defining a space between said faces in the closest position thereof, and a scribing point fixed to one of said jaws, the width of the space between said faces in said closed position thereof being less than the diameter of said protuberances at said intermediate portions and being greater than the diameter of said protuberances at said tapering end portion.

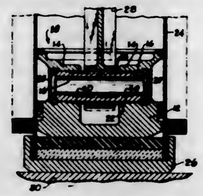


2,388,362
**DRILLING MACHINE**
**Arden B. MacNeill, Waltham, Mass., assignor to said Arden B. MacNeill and Harris Harold MacNeill, Waltham, Mass., as joint tenants**
**Application December 30, 1944, Serial No. 570,709**
**2 Claims. (Cl. 77—22)**



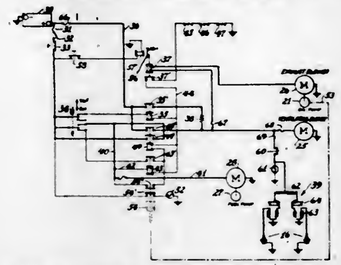
1. Apparatus for simultaneously drilling a pair of blanks, said apparatus comprising a base, first and second spaced supports on said base, a pair of work holders for said blanks rotatably supported by said first support, drill holders slidably supported by said second support in axial alinement with said work holders, an actuator slidably guided by both of said supports, a block having a transverse groove in its top surface fast on said actuator, latches on said drill holders seated in said groove to detachably connect said drill holders thereto, means in control of said actuator to advance said drill holders towards said work holders, means on said actuator to limit the movement of said actuator under the influence of said advancing means to limit the depth of the bores, a member slidably mounted on said second support and said block, and a manually operable toggle pivotally connected to said member and said first support to engage with said limiting means to carry said actuator against the influence of said advancing means.

2,388,363
**PISTON**
**Vincent T. Moore, Glen Rock, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York**
**Application February 23, 1944, Serial No. 523,772**
**10 Claims. (Cl. 309—19)**



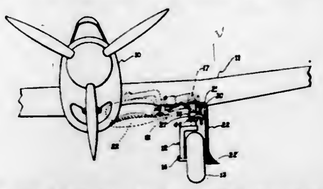
9. A piston having a piston head and a pair of spaced piston-pin bosses with alined bores for the reception of a piston pin, the material of said bosses about said bores having physical characteristics similar to that resulting from a temporary application of a force between said bosses in a direction toward said head and normal to the axis of said alined bores and against a pin extending within said bores, said force having a magnitude such that the material of said bosses on the piston head side of said bores and adjacent the facing ends of said bores is stressed beyond its elastic limit by said force and such that upon removal of said force said material is prestressed in compression.

2,388,364
**COMBUSTION HEATER**
**George A. Page, Jr., Creve Coeur, Joseph Jerger, and Raymond Rugge, Ferguson, and Philip R. Watson, Webster Groves, Mo., assignors to Curtiss-Wright Corporation, a corporation of Delaware**
**Application November 12, 1941, Serial No. 418,696**
**5 Claims. (Cl. 126—110)**



1. In a heating system, heating means having a combustion chamber, means for feeding fuel to said combustion chamber, means for circulating air in heat exchange relation with said heating means, an induced-draft exhaust blower for withdrawing the combustion gases from said heating means, an oil pump for supplying lubricating oil to one or more bearings of said exhaust blower, and means responsive to failure of the oil pressure delivered by said pump for stopping said exhaust blower and fuel feeding means.

2,388,365
**RETRACTABLE LANDING GEAR FAIRING**
**I. Nevin Palley, Oronoque, Conn., assignor to Curtiss-Wright Corporation, a corporation of Delaware**
**Application April 24, 1943, Serial No. 484,446**
**6 Claims. (Cl. 244—102)**

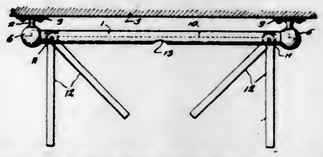


5. In combination, an airplane having a landing gear well therein, a landing gear adapted to be retracted into said well, said landing gear having inner and outer sections, a cover plate rigidly connected to the inner section of the landing gear and movable therewith to close a part of the landing gear well, a second plate carried by the outer landing gear section for cooperating with said

first mentioned plate to close said well, the inner end of said second plate overlying said first-mentioned plate when said landing gear is extended, means responsive to the movement of said landing gear as it is retracted to extend said second plate to a position in which it cooperates with said first-mentioned plate to close said well, an arm carried by the outer section of said landing gear, and means on said second plate for providing a guideway for accommodating the outer end of said arm.

---

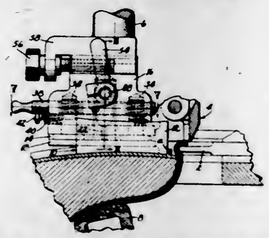
**2,388,366**
**TOWEL RACK**
**John A. Peterson and James E. Bruce, Chicago, Ill.**
**Application May 24, 1944, Serial No. 537,084**
**1 Claim. (Cl. 211—87)**



A fixture of the character described comprising, in combination, a pair of brackets mounted on a support, said brackets including substantially spherical heads having opposed sockets therein, the inner end walls of the sockets having substantially segmental recesses therein, a cylindrical rod having end portions engaged in the sockets, substantially segmental keys projecting longitudinally from the ends of the rod and engaged in the recesses for retaining said rod against rotation in the sockets, said rod having a longitudinal groove extending horizontally therein from the periphery thereof, a plurality of arms pivotally mounted on the rod and engageable in the groove when in inoperative position, the outer surfaces of said arms being arcuate and of a radius of curvature equal to the radius of said rod, whereby when positioned in said groove a substantially cylindrical unit is formed, and means forming a recess at an intermediate point in said bar to provide a finger grip for extending said rods.

---

**2,388,367**
**LASTING MACHINE**
**Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application May 19, 1944, Serial No. 536,297**
**25 Claims. (Cl. 12—14)**



1. In a lasting machine, the combination with means for lasting the marginal portion of an upper about the toe end of a last inwardly over an insole on the last and against a lip on the insole, of means for positioning the shoe relatively to said lasting means, said shoe-positioning means comprising a pair of shoe-positioning members arranged to engage the inner face of the lip of the insole at the opposite sides of the toe respectively to determine the position of the shoe laterally and adjustable relatively to each other in directions widthwise of the shoe, and rotatable means interposed between said members for moving them bodily outward to different lip-engaging positions required by shoes of different sizes.

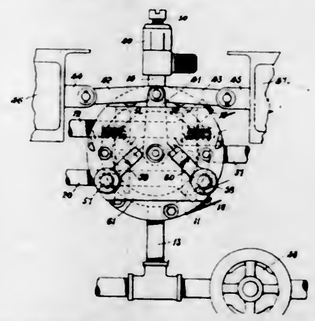
---

**2,388,368**
**IGNITION COMPOSITION**
**Guy F. Rolland, McKeansburg, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application May 6, 1941, Serial No. 392,183**
**9 Claims. (Cl. 52—2)**

9. An ignition composition comprising a mixture of a metallic acetylide, a stabilizer comprising abietic acid, and a binder.

---

**2,388,369**
**FLUID CONTROL VALVE**
**Constantine Shendrick, Detroit, Mich.**
**Application October 30, 1944, Serial No. 561,043**
**2 Claims. (Cl. 121—45)**



1. In combination with a fluid operated mechanism, a valve movable in opposite directions to control fluid flow for the operation of such mechanism in opposite directions, means for moving said valve, means for the controlled operation of said moving means, adjustable limit resiliently yieldable means for variably limiting the movement of said valve in either of said directions to vary the speed of operation of said mechanism in its corresponding direction, and means responsive to predetermined movements of said mechanism for actuating said controlling means to cause the moving means to move the valve against the resistance of said yieldable means for effecting the movements of said valve to fully open positions for pre-determined periods.

---

**2,388,370**
**PRIMER POCKET**
**Samuel A. Snell, Jackson, Mich., assignor to Ryerson & Haynes, Inc., Jackson, Mich., a corporation of Michigan**
**Application November 18, 1943, Serial No. 510,755**
**2 Claims. (Cl. 29—1.31)**

1. The method of forming primer pockets for cartridge cases comprising the steps of forming a substantially cone-shape depression partly through the head of the cartridge case to permit displaced metal to flow outwardly into the head of the case and leave a solid body of metal between the bottom of the depression and the inside of the cartridge case, connecting the bottom

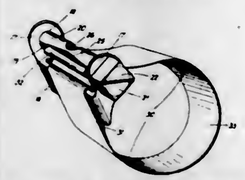


of the cone-shaped depression to the inside of the cartridge case by a hole, shaping the cone-shaped depression by pressure to a substantially cylindrical depression, permitting the displaced metal to flow into the hole, and then enlarging the hole to form a flash hole between the primer pocket and the inside of the cartridge case.

---



**2,388,371**
**PIPE CLAMPING DEVICE**
**Olof Staff, Princess Bay, N. Y.**
**Application November 4, 1943, Serial No. 508,934**
**1 Claim. (Cl. 24—19)**



A pipe clamping device, consisting of a frame comprising a metal cross bar and lateral portions having circular bearing openings therein, a spindle having a squared head on one end extending through both bearing holes so that the square head will engage one of the lateral portions, the other end of the spindle being flanged against the other lateral portion, the spindle being longitudinally split into two equal sections and one of the sections having an internal clearance, and a flexible strip secured to the metal cross bar and adapted to be inserted in the clearance of the spindle and wound on the spindle, the end of the metal strip when inserted in the spindle clearance exerting internal pressure to separate the sections of the spindle to increase the frictional engagement with said lateral portions.

---

**2,388,372**
**CATALYSTS FOR THE ADDITION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**
**William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application April 15, 1942, Serial No. 439,101**
**14 Claims. (Cl. 260—84.5)**

1. The method which comprises subjecting a monomeric material comprising a conjugated butadiene, to polymerization in aqueous emulsion in the presence of a heavy metal catalyst obtained by the combination of a water-soluble heavy metal salt and a saturated aliphatic carboxylic acid selected from the class consisting of saturated aliphatic carboxylic acids having a primary amino group in alpha position to a carboxyl group and being composed, in addition to primary amino and carboxyl, of saturated aliphatic structure made up exclusively of atoms of carbon, hydrogen and oxygen, all oxygen being present in hydroxy, and saturated aliphatic carboxylic acids having a primary amino group in alpha position to a carboxyl group and being composed, in addition to primary amino and carboxyl of saturated aliphatic structure made up exclusively of atoms of carbon and hydrogen.

---

**2,388,373**
**CATALYSTS FOR THE ADDITION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**
**William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application April 15, 1942, Serial No. 439,102**
**11 Claims. (Cl. 260—84.5)**

1. The method which comprises subjecting a monomeric material comprising a conjugated butadiene, to polymerization in aqueous emulsion in the presence of a heavy metal catalyst obtained by the combination of a water soluble heavy metal salt and an aliphatic polycarboxylic acid containing from two to three carboxyl groups and no additional structure other than aliphatic structure in which there is present, in addition to hydrocarbon structure, no structure other than hydroxy.

---

**2,388,374**
**CRUTCH**
**Harris A. Tracy, Stoughton, Mass.**
**Application January 20, 1945, Serial No. 573,662**
**2 Claims. (Cl. 135—51)**



1. A crutch comprising a staff portion, a pair of yoke-forming side members rising from said staff portion, a cross bar extending between said side members below the upper ends of said members and forming with said upper ends a deep crotch for straddling the arm of the user, and a pair of superposed hand grips extending between said side members below said cross bar and arranged close together for circumposition by a hand around the same.

---

**2,388,375**
**METHOD OF MAKING CLOSURE MEMBERS**
**Thomas W. Warner, Jr., Los Angeles, Calif., assignor to Warner Manufacturing Company, Glendale, Calif., a corporation of California**
**Application October 29, 1943, Serial No. 508,230**
**2 Claims. (Cl. 113—116)**

2. A method of making a cam tube provided with a cam shaped edge and laterally supported

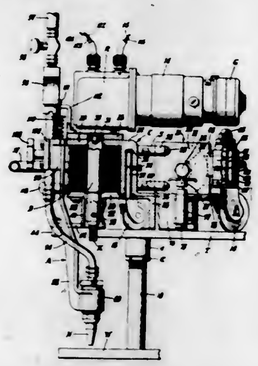
walls comprising punching two members out of stock each having a length equal to one half of the circumference of the finished tube, and each having an edge representing one half of the desired cam, then bending said stock members into semicylindrical shape, preparing a partition element having an upstanding edge portion cylindrical in form and having an outside diameter equal to the inside diameter of the stock members, preparing the respective surfaces of the stock members and partition elements for a brazing operation, applying the stock members to the partition element so that prepared side surfaces



of each are in contact, tack welding the stock members to the partition element at the contacting portions at a temperature sufficient to hold the parts together during a subsequent welding operation, then placing wire brazing metal throughout lines of contact between said members and said element, inserting the tack welded assembly in a furnace and there subjecting the assembly in its entirety to a brazing heat in a reducing atmosphere for a length of time sufficient to complete the brazing of the parts together and thereby sealing the space between said parts with the aid of said brazing metal.

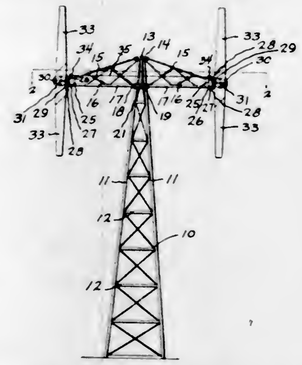
---

**2,388,376**
**TEMPLET-FOLLOWING MACHINE**
**Lloyd W. Young, Elizabeth, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York**
**Application June 3, 1943, Serial No. 489,471**
**16 Claims. (Cl. 33—27)**



1. A templet reproducing machine comprising a carriage having casters adapted to ride on a templet, means on said carriage for following the contour of said templet, guide rolls on said carriage located at positions divergently outwardly from said following means, and means aligned with said contour following means for reproducing said contour.

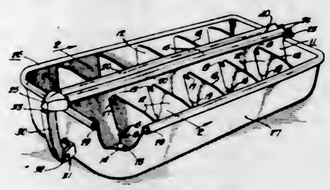
**2,388,377**
**ELECTRIC WIND PLANT**
**John R. Albers, Sioux City, Iowa, assignor to Wincharger Corporation, Sioux City, Iowa, a corporation of Minnesota**
**Application June 29, 1942, Serial No. 448,997**
**8 Claims. (Cl. 290—55)**



5. In combination, a pair of wind driven impeller units of the side governed type, a supporting member, a tail vane mounted on said supporting member and arranged to orient itself with respect to an oncoming wind, each of said impeller units being pivotally mounted at spaced points on said supporting member, means responsive to pivotal movement of one of said impeller units for simultaneously pivoting oppositely in equal amount the other one of said impeller units, and a spring having one of its ends attached to one of said impeller units for simultaneous movement with pivotal movement of said impeller units and its other end fixedly mounted on said supporting means, said spring biasing the impeller axis of rotation of each unit in substantially normally mutually parallel directions corresponding to the direction of an oncoming wind in winds below a predetermined velocity.

---

**2,388,378**
**GRID STRUCTURE FOR ICE TRAYS**
**Leo J. Amore, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application April 29, 1944, Serial No. 533,358**
**7 Claims. (Cl. 62—108.5)**

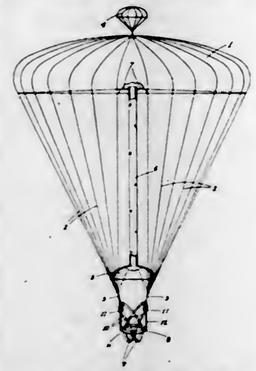


1. In an ice tray, a receptacle comprising a pair of fixed relatively spaced rigid walls, a pair of movable walls interposed between said fixed walls and extending in spaced longitudinal relation thereto, said movable walls being arranged substantially in inverted V formation, and a pivotally mounted rod arranged to pass between said walls at the apex of said formation and by wedging action upon the upper edges thereof to force the walls away from each other and toward the respective fixed walls.



---

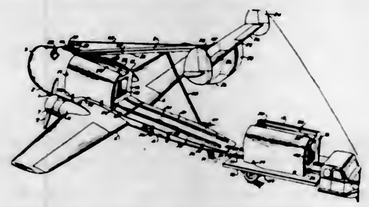
**2,388,379**
**PARACHUTE HARNESS**
**Charles Edwin Ashton, Stockton, Calif.**
**Application June 21, 1944, Serial No. 541,405**
**1 Claim. (Cl. 244—151)**



A parachute harness comprising a belt, shoulder straps connected to the belt at the front and back and in crossing relation to each other at the back, leg straps connected to the front and back of the belt, the shoulder and leg straps meeting at a common central point at the front of the belt, arm loops secured to the shoulder straps at the shoulder portion thereof and depending therefrom, canopy suspension straps secured to the shoulder straps adjacent the shoulder portion thereof and adapted for connection with the shroud lines of a parachute, and tension straps secured to the lower sides of the arm loops and to the belt and extending in substantial alignment with the suspension straps when the harness is secured to such shroud lines.

---

**2,388,380**
**AIRPLANE CONSTRUCTION**
**Cecil H. Bathurst, Merriam, Kans.**
**Application March 11, 1943, Serial No. 478,749**
**11 Claims. (Cl. 244—137)**



1. In an airplane construction, a nose section forming the forward portion of the fuselage, a fuselage base comprising a platform extending rearwardly of the nose section, a tail assembly including control surfaces, a cargo section removably mounted on the fuselage base, said cargo section having a recess in the upper portion thereof, a beam on the tail assembly hingedly connected to the nose section and adapted to lie in the recess in the upper portion of the cargo section, and means for spacing the tail assembly from the cargo section to permit removal of said cargo section.

---

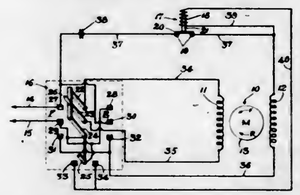
**2,388,381**
**HAIRPIN**
**Clara Olive Bergstrom, Portland, Oreg.**
**Application March 14, 1944, Serial No. 526,381**
**2 Claims. (Cl. 132—52)**



2. The combination of a barrel shaped rubber body having a cylindrical opening formed therethrough along the axis of the body, a U-shaped hairpin having one of its legs projecting through said body and a flexible barb projecting from one side of said body and pointing toward the closed end of said pin, said barb forming an acute angle with relation to the closed end of said pin.

---

**2,388,382**
**MOTOR CONTROL**
**Cornelius Brongersma, Muskegon Heights, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey**
**Application January 2, 1943, Serial No. 471,127**
**6 Claims. (Cl. 172—279)**



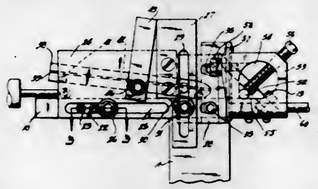
4. In a control for effecting high speed reversal of a single phase alternating current motor having a main winding and a starting winding, the combination of reversing means for controlling the connection of said windings to a source of alternating current potential and for reversing one of said windings with respect to the other, means including a potential relay having an actuating winding shunted across said starting winding for open circuiting the latter upon energization of such relay, and means operative as an incident to the disconnection of the motor windings from the source of supply by said reversing means and substantially coincidentally with such disconnection for interrupting the shunt connection of said relay winding across said starting winding to effect substantially instant reclosure of the relay.

---

**2,388,383**
**SPRING WINDER**
**Leonard R. Buczkoski, Detroit, Mich.**
**Application February 10, 1944, Serial No. 522,195**
**3 Claims. (Cl. 153—67)**

1. A spring winder of the kind described, comprising a horizontal base, a plate with a window therein, set at an angle to the base in a V-shaped

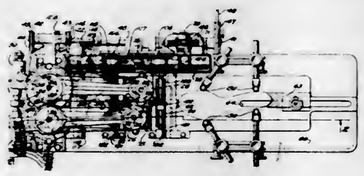
formation, for the reception therein of a transversely disposed mandrel, a sliding bar on said base, parallel to the side thereof, the end of said bar fitting into said window to wedge the mandrel in place, a sliding member affixed to the



side of the base, having a vertically adjustable head and a wedge-shaped spacer, projecting beyond the surface of the head into contact with said mandrel, and an elongated feeder to supply the wire to form a spring to said mandrel.

---

**2,388,384**
**SOLE ROUGHING MACHINE**
**William C. Card, Winthrop, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware**
**Application August 28, 1943, Serial No. 500,383**
**22 Claims. (Cl. 69—1)**

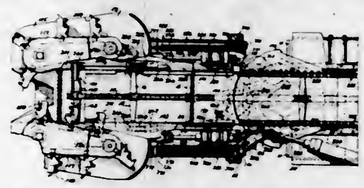


1. A sole roughing machine comprising a pair of roughing tools rotatable on a vertical axis, means including one pivoted arm for supporting one of said tools, means including a second pivoted arm for supporting the other of said tools, means for feeding a sole in contact with said tools, means including a roll underlying said tools for maintatining the sole in contact therewith, means for contacting one edge of the sole for moving one of said arms for guiding one of said tools along the sole, and means for contacting the opposite edge of the sole for moving the other of said arms for guiding the other of said tools along the sole, said second arm being longer than said one arm whereby the roughing of said tools overlaps at the toe portion of the sole.

---

**2,388,385**
**MATERIAL GATHERING AND LOADING MACHINE**
**Frank Cartlidge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application August 2, 1943, Serial No. 497,004**
**16 Claims. (Cl. 198—8)**

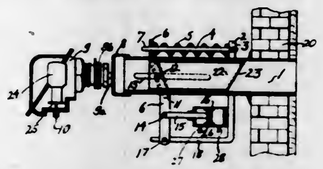
1. In a low type loading machine, a main frame, a continuous conveyer extending from the ground in advance of said main frame over the top thereof and beyond the rear end thereof and including an inclined elevating trough extending in advance of said main frame and mounted thereon for lateral swinging movement with respect thereto about a vertical axis and for vertical adjustment with respect thereto about a transverse axis, a horizontal trough extending over the top of said main frame, flexible side walls connecting said troughs together, to form a continuous trough when said inclined trough is in various positions of adjustment with respect to said horizontal trough, an endless chain having spaced flights projecting laterally from opposite sides thereof, said flights forming a guide means on



their ends for said chain and forming a material moving means for said conveyer, and means to restrain said chain from twisting when said elevating trough is at an inclined and laterally displaced position with respect to said horizontal trough including hold-down means extending along the sides of said elevating trough and adapted to engage the upper sides of said flights, and other hold-down means secured to said flexible side walls and adapted to engage the upper sides of said flights as said flights pass by the point of articulation of said conveyer.

---

**2,388,386**
**BURNER CONTROL APPARATUS**
**Theodore A. Cohen, Chicago, Ill., assignor, by mesne assignments, to Wheelco Instruments Company, Chicago, Ill., a corporation of Illinois**
**Application January 22, 1942, Serial No. 427,795**
**5 Claims. (Cl. 158—28)**

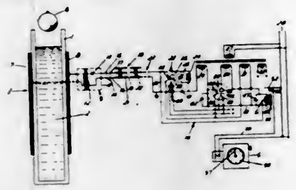


1. In an apparatus of the character described, the combination of a furnace wall provided with a sight tube therein, a radiation sensitive device mounted for receiving radiations through said tube and an annular cutting member fitted within said tube adapted to project inwardly beyond the surface of the wall to clear said tube.

---

**2,388,387**
**SYSTEM FOR MEASURING THE TIME INTERVAL FOR MOVING BODIES TO TRAVERSE PREDETERMINED DISTANCES**
**Theodore A. Cohen, Chicago, Ill., assignor, by mesne assignments, to Wheelco Instruments Company, Chicago, Ill., a corporation of Illinois**
**Application February 26, 1943, Serial No. 477,291**
**1 Claim. (Cl. 161—18)**

A system for measuring the time interval for a moving body to traverse a predetermined distance, comprising a pair of opposed spaced parallel capacitive members defining a path therebetween of predetermined length along which the body may move, electronic means affected in one way by the capacitance change incident upon the entry of said body into said path between said members and affected in another way by the



capacitance change incident upon said body leaving said path and making its exit from between said capacitive members, said electronic means when so affected being operative to start and stop a timing device, and a timing device controlled by said electronic means to measure the time consumed by said body in traveling said path.

---

**2,388,388**
**METHOD OF PREPARING ZEIN SOLUTIONS DIRECTLY FROM GLUTEN**
**Roy E. Coleman, Chicago, Ill., assignor to Time, Incorporated, a corporation of New York**
**No Drawing. Original application November 30, 1942, Serial No. 467,402, now Patent No. 2,352,604, dated July 4, 1944. Divided and this application October 25, 1943, Serial No. 507,595**
**12 Claims. (Cl. 106—153)**

1. The method of preparing directly from gluten a solution of zein-containing proteins in a solvent or mixture of solvents comprising as an essential solvent constituent for the zein-containing proteins, a solvent having a boiling point above about 125° C. and having a proportion of polar to non-polar radicals which lies within a range extending between the limits of the proportion of polar to non-polar radicals of methanol and the proportion of polar to non-polar radicals of ethanol, which comprises contacting gluten with a solvent mixture at an elevated temperature in the order of about 120° F. to about 170° F. to extract zein-containing proteins from the gluten, said solvent mixture comprising the aforesaid zein-containing protein solvent having a boiling point above about 125° C. and an aqueous miscible diluent therefor having a boiling point below about 125° C., separating the extract from the residual gluten and removing at least part of the diluent from the extract to form the aforesaid solution.

---

**2,388,389**
**PREPARATION OF ZEIN SOLUTIONS DIRECTLY FROM GLUTEN**
**Roy E. Coleman, Chicago, Ill., assignor to Time, Incorporated, a corporation of New York**
**No Drawing. Original application November 30, 1942, Serial No. 467,402, now Patent No. 2,352,604, dated July 4, 1944. Divided and this application October 25, 1943, Serial No. 507,601**
**10 Claims. (Cl. 106—153)**

1. The method of preparing directly from gluten a solution of zein-containing proteins in a solvent or mixture of solvents comprising as an essential solvent constituent for the zein-containing proteins, a solvent having a boiling point above about 125° C. and having a proportion of polar to non-polar radicals which lies within a range extending between the limits of the proportion of polar to non-polar radicals of methanol and the proportion of polar to non-polar radicals of ethanol, which comprises contacting gluten with a zein protein solvent having a boiling point below about 125° C. at an elevated temperature in the order of about 120° F. to about 170° F. to extract zein-containing proteins from the gluten, said zein protein solvent comprising an azeotropic mixture, the constituents of which are individually non-solvents for said proteins, separating the extract solution from the residual gluten, mixing the aforesaid solvent having a boiling point above about 125° C. with said extract solution and removing at least part of said relatively low boiling point solvent from the solution.

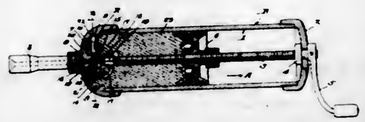
---

**2,388,390**
**DESICCATING AGENT**
**Stanley V. Cook, Dayton, and Charles E. Waring, Oakwood, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**No Drawing. Application June 1, 1943, Serial No. 489,272**
**3 Claims. (Cl. 252—194)**

1. A desiccant comprising in combination, substantially anhydrous calcium sulphate and a coating therefor comprising a quantity of cellulose acetate sufficient to prevent dusting.

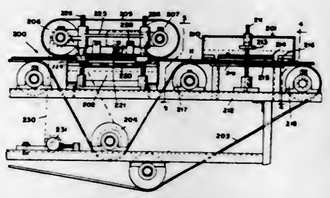
---

**2,388,391**
**GREASE GUN**
**Severin F. Czerner, Kings Mill, Tex.**
**Application October 9, 1944, Serial No. 557,854**
**3 Claims. (Cl. 222—256)**



1. A grease gun comprising a barrel provided at one end with an internal track eccentric with respect to the longitudinal axis of the barrel, the barrel being provided at said end with an internal hub concentric with respect to the longitudinal axis of the barrel, the hub having a discharge outlet which opens through the periphery of the hub, the hub having an inlet which opens at one end through the periphery of the hub and communicates at its opposite end with the interior of the barrel, a rotor journaled on the hub and having cylinders which communicate first with the inlet and then with the outlet as the rotor is rotated, pistons mounted to reciprocate in the cylinders and engaged at their outer ends with the track, to secure inward movement of the pistons while the cylinders are in communication with the outlet, and a combined means carried by the barrel for rotating the rotor, to bring the cylinders first into communication with the inlet and then into communication with the outlet, and for putting pressure on the contents of the barrel to charge the cylinders while they are in communication with the inlet.

2,388,392
**IRONING APPARATUS**
Clarence J. Davies, Detroit, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Original application March 11, 1940, Serial No. 323,430, now Patent No. 2,383,849, dated August 28, 1945. Divided and this application July 26, 1943, Serial No. 496,206
3 Claims. (Cl. 154—27)



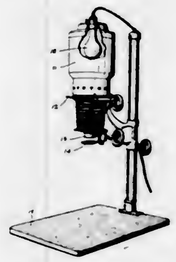
3. Apparatus for smoothing a surface of fibrous sheet material as the latter is advanced in a predetermined direction, comprising a relatively fixed ironing element having an elongated ironing surface, means for advancing sheet material to be ironed over the ironing surface of said ironing element, including an endless conveyor having a flight above and substantially parallel to said ironing surface, a vertically adjustable support for said endless conveyor, and a pressure plate carried by said support in surface to surface engagement with the flight of said conveyor, and means for adjusting said support and pressure plate so that the flight aforesaid of said conveyor will maintain the advancing fibrous sheet material in firm but light pressure ironing contact with the ironing surface of said ironing element.

2,388,393
**INSECTICIDE**
Hans J. Diem, Bradenton, Fla.
No Drawing. Application September 9, 1942, Serial No. 457,757
4 Claims. (Cl. 167—24)

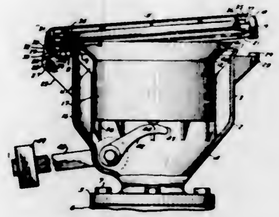
1. A liquid insecticide extractive comprising a mixture of *Pycnothymus rigidus* and an organic solvent.

2,388,394
**PHOTOGRAPHIC DEVICE AND APPURTENANCE FOR REPRODUCTION PURPOSES**
Samuel Drucker, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois
Continuation of application Serial No. 411,340, September 18, 1941. This application May 17, 1944, Serial No. 535,945
4 Claims. (Cl. 88—24)

1. In or for a photographic reproducing device having a source of light emitting actinic and non-actinic rays, optical focussing means, and a light filter of a non-actinic color displaceable from a position in the path of the rays produced by said source of light to a position outside of said path of said rays so as to intercept, when placed in the path of said rays, all rays emitted by said source of light with the exception of the non-actinic rays corresponding in color to the color of said filter, an opaque member adapted to sustain a sensitized element at a distance from said focussing means and said light filter, at least those surfaces of said opaque member which, when said member is in use, are exposed to light from said source of light being colored in the same non-actinic color as said filter.



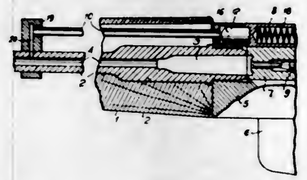
2,388,395
**COMBINED FLAME ARRESTER AND VENT VALVE**
James J. Duggan, Charleston, W. Va.
Application November 20, 1942, Serial No. 466,377
11 Claims. (Cl. 220—88)



1. A combined flame arrester and vent valve including, a body member having a flow passageway, a pressure vent valve cooperating with the body member to close said passageway and unseatable under a predetermined pressure to relieve pressure through the passageway, a fire stop unit loosely mounted in said passageway, a by-pass connected with the passageway and extending around the fire stop unit, and means on the fire stop unit normally closing said by-pass, said unit being shiftable responsive to pressure greater than said predetermined pressure to discharge the greater pressure through said by-pass upon opening of the relief valve.

2,388,396
**FIREARM**
Hans Erik Eklund, Malmo, Sweden, assignor to Aktiebolaget J. C. Ljungman, Malmo, Sweden, a corporation of Sweden
Application September 17, 1943, Serial No. 502,806
In Sweden September 12, 1942
4 Claims. (Cl. 42—3)

1. A firearm including a barrel having an outtake for the powder gases, a loading mechanism comprising a breech block and a movable member having a rectilinear path and being adapted directly to actuate said breech block, and a pipe conduit leading from said gas outtake on the barrel of said movable member of the loading mechanism, the opposed ends of said pipe conduit and of said movable member of the loading mechanism being formed into a working cylinder and a driving piston cooperating therewith, the end surface of said driving piston facing said working cylinder being provided with a bevelled portion in order to convey the escaping driving gases



therethrough in a predetermined direction, said working cylinder and said driving piston being of such a small length relatively to each other that that one of them which is movable with the movable member of the loading mechanism leaves the other behind it on having performed a portion of its stroke thereby uncovering a direct outlet to the atmosphere for the driving powder gases.

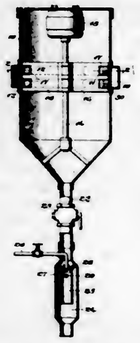
2,388,397
**METHOD OF MAKING BINDERS AND SPLIT RINGS THEREFOR**
Charles Edward Emmer, Chicago, Ill., assignor to General Binding Corporation, Chicago, Ill., a corporation of Illinois
Original application January 2, 1943, Serial No. 471,175. Divided and this application April 26, 1943, Serial No. 484,530
1 Claim. (Cl. 18—48)



The method of making a binder ring for use in the binding of loose leaf notebooks, paper, magazines, and the like which comprises forming from a strip of synthetic thermoplastic material a binder ring member having opposite portions cooperating to define a split ring at one side and joined at their other side by a connecting base portion and subjecting the base portion to the action of a plasticizer confined to a centrally disposed zone extending in a direction normal to the disposition of the opposite portions of the ring for rendering said base portion more flexible whereby the base portion may be flexed in said zone to permit of the separation of the opposite portions of the ring.

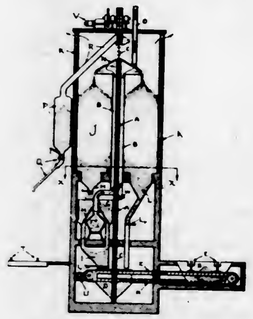
2,388,398
**AIR OR GAS PUMP**
Harnold Glen Eudy, Norfolk, Va.
Application December 12, 1944, Serial No. 567,833
15 Claims. (Cl. 230—108)

1. An air or gas pump comprising a casing having a side wall, a rib projecting inwardly from the side wall of said casing and having therein a duct opening through one end thereof and affording communication between the exterior and the interior of said casing, and a rotatable blade in said casing arranged to sweep over said rib and to impart rotary motion to the air within



said casing away from the end of said rib through which said duct opens, thereby to cause air to be drawn through said duct.

2,388,399
**COMBINED SAND ELEVATOR AND DRIER**
John George Forster, Chicago, Ill., and Leland G. Plant, Washington, D. C.
Application October 15, 1942, Serial No. 462,170
9 Claims. (Cl. 263—8)



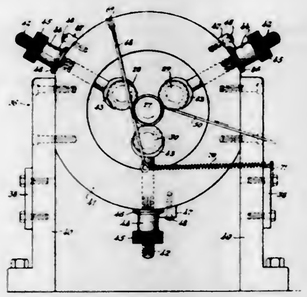
1. An apparatus of the character described comprising an upright tubular casing, means for supplying sand to the lower end of said casing, sand elevating means within said casing, a storage receptacle, an elevated chute for supplying sand to a locomotive for track sanding purposes, valve controlled outlet means for said casing at the upper portion thereof adapted to selectively deliver sand from said elevating means to said storage receptacle or to said chute, said storage receptacle having a valved outlet for returning sand by gravity to the lower portion of the casing, and means for heating the sand in the course of its return, said heating means comprising a stove located between said valved outlet and the lower portion of the casing and having an outlet duct for hot exhaust gases, and a heating jacket surrounding said casing for preliminarily drying the sand during the course of elevation, said heating jacket communicating with said outlet duct.

**2,388,400**
**VANADIUM SALTS OF ACID ESTERS AS INHIBITORS IN LUBRICATING OILS**
**Frederick C. Frank, Pitman, and Darwin E. Badertscher and Henry G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**No Drawing. Application March 17, 1942, Serial No. 435,082**
**2 Claims. (Cl. 252—35)**

1. A mineral oil composition comprising a viscous mineral oil fraction and in admixture therewith a minor proportion, sufficient to inhibit oxidation, of vanadyl oleyl phthalate, said phthalate having the property of inhibiting ring-sticking of pistons even after it is removed and the pistons are contacted with a compounded or non-compounded mineral oil.

---

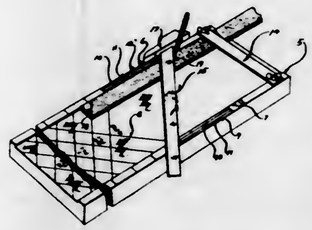
**2,388,401**
**MANUFACTURE OF HELICAL BINDERS**
**Albert Freundlich, New York, N. Y., assignor to Spiral Binding Company, Inc., New York, N. Y., a corporation of New York**
**Application February 17, 1943, Serial No. 476,170**
**3 Claims. (Cl. 18—19)**



3. In a machine for making helical members from a filament, the combination of a centrally disposed rotatable mandrel, a plurality of rotatable forming members arranged around said mandrel, each of said members having a series of annular grooves spaced from each other a distance equal to a predetermined pitch and the grooves of each member being longitudinally displaced with relation to the grooves on the other members, the portion of said mandrel in the region of the grooved portions of said members having a smooth surface and a cross-sectional area throughout its length less than the transverse dimensions of the longitudinally extending space defined by said members so that the smooth surface of such mandrel portion is spaced from the exterior surfaces of the grooved portions of said members, and the depth of the grooves on said members being less than the diameter of the filament being formed and such that the filament being formed is pressed by said members against the smooth, spaced surface of said mandrel, means for rotating said mandrel and said forming members, the said parts being so constructed and arranged that the peripheral speed of rotation of said members is different from that of said mandrel, whereby the filament being formed is worked by pressure and frictional heat into a different cross-sectional configuration during the forming operation, the working end of said mandrel projecting beyond the grooved end portions of said members and functioning as a feeding guide for the helical member, means cooperating with such projecting end of the mandrel to give to the helical member the correct pitch desired, said last mentioned means comprising a rod adjustably mounted on the machine and, intermediate its length, engaging the periphery of the projecting end of said mandrel at a point spaced from the ends of said forming members a distance different from that between the grooves of such members, and means for yieldingly maintaining said rod in contact with said mandrel.

---

**2,388,402**
**GAUGE BOARD**
**William L. Fry, Milwaukee, Wis., assignor to Reichel-Korfmann Co., Milwaukee, Wis., a corporation of Wisconsin**
**Application March 6, 1944, Serial No. 525,241**
**2 Claims. (Cl. 33—75)**



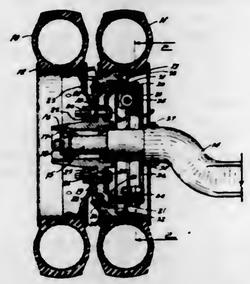
1. A device for facilitating the splicing of laminated belts where the several laminations must be cut and peeled off predetermined different distances from the end of the belt, comprising: a flat board; a shoulder extending along an edge of the board and adapted to have one side edge of a belt engaged thereagainst; a plurality of reference lines extending diagonally across the board from said shoulder to indicate the proper position of a belt on the board with reference to the number of its plies; other reference marks on another portion of the board; and a straight edge having a head engageable with a side of the board, said straight edge forming an angle with its head equal to the angle said reference lines form with the shoulder and being positionable by reference to said last designated reference marks to properly and quickly locate the points at which the several plies of the belt are to be cut in its preparation for the splice.

---

**2,388,403**
**MOUNTING FOR DUAL WHEELS**
**Edward V. Garnett and Vactor G. Garnett, Denver, Colo.**
**Original application May 27, 1940, Serial No. 337,482. Divided and this application October 11, 1944, Serial No. 558,164**
**7 Claims. (Cl. 188—18)**

1. A dual wheel construction for vehicles comprising: a hub member; bearings in said hub member for journalling the latter on an axle spindle; a first dual wheel secured to said hub member; a wheel disc secured to said hub member; an annular bearing on said wheel disc; a second dual wheel mounted on said annular bearing so as to be independently rotatable from said first wheel; and braking means for exerting a





frictional retarding action on both wheels simultaneously.

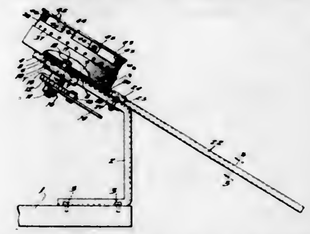
---

**2,388,404**
**STORM SASH AND SCREEN**
**Raymond W. Gill, Pleasantville, N. J.**
**Application October 24, 1944, Serial No. 560,098**
**2 Claims. (Cl. 160—91)**



1. A combined storm sash and screen including a main frame, an intermediate crossbar, a portion of which is removable, a pane of glass set in the frame above said crossbar, the stiles of the frame having relatively narrow channels extending throughout their length and open along their inner edges, metal resilient weatherstrips mounted in said channels, removable wooden strips forming the inner face of said channels, a slideable lower pane mounted in said channels and frictionally held against the side walls by said resilient metal weatherstrips, a further resilient metal strip mounted in said crossbar and bearing against said slideable pane, a metal U shaped strip extending across the lower edge of the slideable pane, said strip having a horizontal portion on its inner edge, and the outer edge extending downwardly to form a water shed, tracks mounted on the inner face of the stiles, a raisable screen mounted in said tracks and the said tracks cut out about centrally of their length to facilitate the removal of the inner portion of the intermediate crossbar, and the said horizontal portion of the U shaped strip providing a grip for the fingers to raise and lower said slideable pane when said screen is in an upper position.

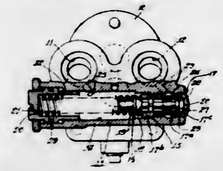
**2,388,405**
**AUTOMATIC FEEDING DEVICE**
**Leopold F. Glaude, Chicago, Ill.**
**Application December 18, 1944, Serial No. 568,697**
**20 Claims. (Cl. 10—169)**



20. In a feeding device of the character disclosed for feeding hollow open-ended elements and which device has a shell provided with an outlet opening, a chute with its receiving end at said opening, and a rotating hopper in the shell and having a circular base and provided with throats at the peripheral portion of said base and which throats are movable past said opening; comprising in combination therewith element turning keys in said throats for receiving the open-end portions of the elements tumbled about in the hopper and to guide the elements into a given position for the elements to move in said position through said opening and to said chute, said throats having side walls extending radially of and from said base, an annular member connected to said walls, and means for connecting said keys to said annular member, said peripheral portion of said base between said walls being curved radially inwardly to assist the movement of said elements to said opening.

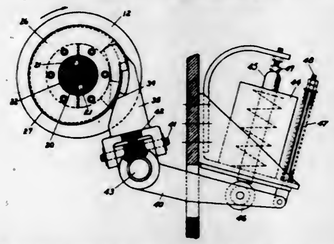
---

**2,388,406**
**VALVE**
**Frederick Haberland, Cleveland, Ohio, assignor to Pesco Products Co., a corporation of Ohio**
**Application July 1, 1943, Serial No. 493,048**
**6 Claims. (Cl. 137—53)**



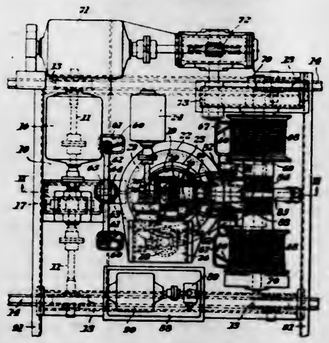
1. In combination with a body having a port therein and having a bore for communication with said port, a valve assembly including a valve housing one end of which is open to provide a valve seat and is formed with a head seated against a shoulder in said bore, the other end of said valve housing being closed to form a dash pot chamber, a valve element engageable with said seat and having an extension formed with a piston operating in said chamber to form a dash pot, means yieldingly engaging said element to normally maintain it against its seat and to maintain the head of said housing engaged against said shoulder, said closed end of the valve housing serving to close the end of said bore, said housing having, intermediate its ends, an aperture communicating with said port.

2,388,407
**TOOTHED CLUTCH MECHANISM**
**Hans H. Hansen, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio**
**Application February 1, 1944, Serial No. 520,595**
**14 Claims. (Cl. 192—101)**



1. A clutch mechanism comprising in combination a driving member having a toothed clutch part and a stepped involute face radially outward of said part, a driven member mounted for rotation about an axis coincident with the axis of rotation of said driving member and having a toothed clutch part adapted to be brought into and out of engagement with said first mentioned part longitudinally along said axis, means resiliently urging said driven member toward said driving member whereby said parts are normally interengaged, said driven member having an inner face radially outward of said second mentioned part, circumferentially spaced cam surfaces on said inner face, and a separating block mounted for movement toward said axis and between said faces as well as longitudinally along said axis; said block being operative to engage in succession one of the cam surfaces of said driven member to effect an initial but incomplete separation of said parts, the step in said involute face, to effect complete separation of said parts, and the second cam surface on said driven member to stop rotation of said driven member.

2,388,408
**SOAKING-PIT CRANE**
**Robert J. Harry, Alliance, Ohio, assignor to The Alliance Machine Company, Alliance, Ohio, a corporation of Ohio**
**Application June 9, 1944, Serial No. 539,463**
**15 Claims. (Cl. 212—11)**



1. In a crane, a trolley adapted to travel back and forth, a hollow post mounted vertically on the trolley for rotation about its own axis, a tongs support suspended below said trolley, a hollow telescopic column depending from said post and slidable through said support but non-rotatable therein, a tongs bracket engaging the lower end of the column but non-rotatable relative thereto, tongs pivoted on said bracket, means on said support serving to actuate the tongs on raising or lowering of the bracket relative thereto, a cable passing through the post and column and suspending the bracket, and means on the trolley for deflecting a portion of said cable out of its normal path to take in the depending portion of the cable and raise said bracket.

2,388,409
**REACTION PRODUCTS OF SECONDARY ALIPHATIC ALCOHOL AND FORMALDEHYDE AND METHODS OF PRODUCING THE SAME**
**Mortimer T. Harvey, South Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey**
**No Drawing. Application April 10, 1943, Serial No. 482,610**
**4 Claims. (Cl. 260—615)**

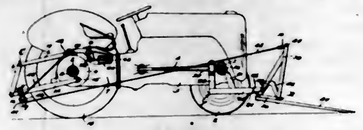
1. The method comprising boiling a mixture of about 2 molecular proportions of a secondary aliphatic alcohol and about 1 to 20 molecular proportions of formaldehyde in the presence of about 3% to 50% of a strong acid, said percentage based on the combined weights of said secondary alcohol and said formaldehyde in said mixture said boiling continued until there is produced an organic condensation reaction product being incapable of boiling at temperatures less than 20° C. above the boiling temperature of the corresponding formal, being in quantity at least 10% by weight of the combined weights of said alcohol and formaldehyde, having a specific gravity at least 3% greater than that of said formal and being substantially insoluble in water.

2,388,410
**KETONE RESINS**
**Vernon E. Haury, El Cerrito, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application March 3, 1944, Serial No. 524,952**
**20 Claims. (Cl. 260—64)**

1. A process for the production of ketone resins which comprises heating a substituted $\Delta^2$-cyclohexenone with an aldehyde wherein the aldehyde group is linked directly to a member of the class consisting of the hydrogen atom and monovalent hydrocarbon radicals, said heating being effected with the reactants in the presence of a condensing agent and sufficient organic homogenizing solvent to render the reaction mixture homogeneous at least when first heated and said substituted $\Delta^2$-cyclohexenone being an auto-condensation product of an aliphatic ketone and of the formula $C_nH_{2(m(k-1)+1)}O$ wherein $m$ and $k$ are integers with $m$ of 4 to 10 and $k$ of 3 to 9 and $n=k\times m$.

2,388,411
**TRACTOR RAKE**
**Paris P. Hicks, Jane Lew, W. Va., assignor of one-half to Michael Faulkner, Weston, W. Va.**
**Application November 29, 1943, Serial No. 512,201**
**1 Claim. (Cl. 56—27)**

In a gathering device, a vehicle comprising a body, a front axle carried by the body, ground wheels carried by the axle for rotation, radius rods having their forward ends connected to the axle, their rear ends being connected to the body, a frame including a substantially horizontal part located below the axle and extended forwardly and rearwardly with respect thereto, the frame including upwardly extended standards on the rear portion of the horizontal part of the frame and located to the rear of the axle, means for connecting the upper portions of the standards



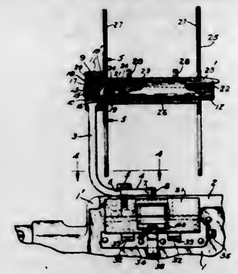
detachably to the radius rods, uprights having their lower ends secured in transversely-spaced relation to the horizontal part of the frame in advance of the axle, means for securing the upper ends of the uprights detachably to the axle, a collector pivoted to the forward portion of the substantially horizontal part of the frame for vertical swinging movement, and means for imparting vertical swinging movement to the collector.



2,388,412
**FRACTIONATION OF TALL OIL**
**Arthur W. Hixson, Leonia, N. J., and Ralph Miller, New York, N. Y., assignors to The Chemical Foundation, Incorporated, a corporation of Delaware**
**No Drawing. Application April 25, 1940, Serial No. 331,602**
**5 Claims. (Cl. 260—97.5)**

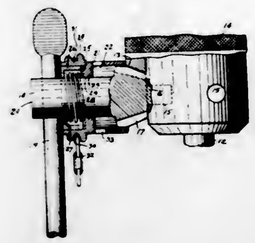
1. The process of extracting fatty acids from tall oil by contacting same with a liquefied, normally gaseous, hydrocarbon at elevated temperatures at which the rosin is insoluble in the liquefied hydrocarbons in a continuous counter-current system, continuously withdrawing from said system one liquid phase consisting essentially of fatty acids dissolved in the liquefied hydrocarbon and a second phase consisting essentially of liquid rosin containing some dissolved hydrocarbon.

2,388,413
**MAGAZINE FOR AUTOMATIC FIREARMS**
**George Ironside, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut**
**Application October 20, 1941, Serial No. 415,758**
**1 Claim. (Cl. 89—34)**



An ammunition reel support comprising in combination, a bracket including a portion constructed to be directly attached to a firearm and a post projecting therefrom and terminating in an apertured boss, said boss having an annular recess extending inward from one face and around said aperture, a substantially cylindrical pintle secured at one end within the aperture of said boss and adapted to rotatably support said ammunition reel, a portion of said pintle adjacent said boss being reduced in diameter to provide an annular shoulder spaced from said boss, an apertured disc comprising a brake shoe slidably and nonrotatably mounted on said reduced portion of said pintle and at least partially within said annular recess and constructed to frictionally engage said ammunition reel, the inner wall of said annular recess and said shoulder respectively limiting the slidable movement of said brake shoe in opposite directions, means within said annular recess and normally biasing said brake shoe toward said shoulder, and means carried by said pintle and constructed to engage said reel when mounted on said pintle to detachably maintain said reel in operative position on said pintle.

2,388,414
**EJECTOR AND GUARD FOR CHUCK KEYS**
**Lee Jernigan, Portland, Oreg.**
**Application May 20, 1944, Serial No. 536,525**
**1 Claim. (Cl. 81—90)**



A chuck key having in combination a pivot, a beveled gear secured near one end of said pivot and a handle secured near the opposite end thereof, a sleeve slidably mounted on said pivot between said pinion and handle, one end of said sleeve being counter-bored to completely receive said pinion and the other end of said sleeve being counter bored to provide a spring containing recess, a bushing extending into said spring recess having an inturned flange slidable upon said pivot and engaging said handle and a spring disposed within said last mentioned recess adapted to urge said sleeve toward a pinion covering position.

2,388,415
**LADDER HOOK**
**Edward T. John, Minneapolis, Minn.**
**Application November 6, 1944, Serial No. 562,093**
**6 Claims. (Cl. 228—66)**

1. A ladder hook of the character described, comprising a sheet metal stamping formed with a notch to receive the ladder rungs, the margins of the hook and the notch therein having an integral stiffening flange parted at a point below the notch, an ear formed at the point where the flange is parted and offset in the same direction

as the flange is turned to a medial position with respect to the width of the flange and thickness



of the hook as a whole, and a finger member pivotally mounted on said ear.

---

2,388,416
**CASING CENTERING DEVICE**
**Mont C. Johnson, Winterset, Iowa**
**Application September 17, 1943, Serial No. 502,733**
**2 Claims. (Cl. 166—4)**



1. A device for centering a casing in an oil hole comprising a pair of elongated mating frame units of a semi-circular contour adapted to be assembled in an encircling position about the casing, each said frame units being of a preassembled construction and comprised of a pair of oppositely arranged semi-circular ring members, a plurality of frame members of straight form connected between said semi-circular ring members in a circumferentially spaced relation, each of said frame members being of a substantially triangular shape in cross section having a base of an arcuate contour adapted to contact the side wall of the oil hole, and the apex thereof adapted to contact the outer periphery of the casing, with the base of each frame member at the opposite ends thereof being inclined inwardly for junction with the outer peripheries of the semi-circular ring members.

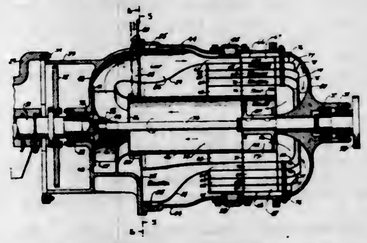
---

2,388,417
**METHOD OF OBTAINING GLAND EXTRACTS**
**Robert L. Jones, Waukegan, Ill., assignor to Abbott Laboratories, a corporation of Illinois**
**No Drawing. Application December 19, 1941, Serial No. 423,647**
**4 Claims. (Cl. 167—74)**

1. The steps in the method of preparing therapeutic concentrates containing active oxytocic and pressor principles which comprises subjecting fresh posterior pituitary glands to extraction with an aqueous lower monohydric alcohol extracting fluid, chilling the resulting extract and separating therefrom lipid precipitates formed during chilling, concentrating the extract under vacuum to a volume sufficient to remove the alcohol, adding sufficient salt to the resulting aqueous concentrate to precipitate the active principles, dialyzing a suspension of the precipitate to separate the salt from the suspension, and subjecting the resulting liquid containing the non-dialyzable active principles to sterilization, said extracting fluid containing a small amount of acid and being made up of sufficient monohydric alcohol to yield an alcoholic concentration of about 60–70 per cent during extraction.

---

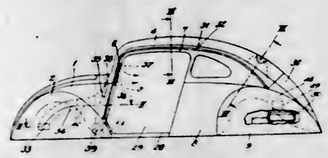
2,388,418
**HYDROKINETIC TORQUE CONVERTER**
**Morris Katcher, New York, N. Y.**
**Application September 3, 1943, Serial No. 501,096**
**8 Claims. (Cl. 60—54)**



1. In a hydro-kinetic torque converter, a motor driven pump, a movably mounted selective guide member for receiving the fluid from the pump, a rotor divided into a plurality of annular compartments of various radii, said member having a plurality of conduits, each of said conduits continuously communicating at one end with a corresponding one of said compartments and adapted to be set at its other end opposite the outlet of the pump, each conduit leading fluid from the pump to its corresponding compartment when said other end is set opposite said outlet, said rotor being driven by the flow of the fluid through the compartment selected, and means for setting the guide member.

---

2,388,419
**VEHICLE BODY CONSTRUCTION**
**Erwin Komenda, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian**
**Application November 26, 1938, Serial No. 242,526**
**In Germany November 30, 1937**
**16 Claims. (Cl. 98—2)**

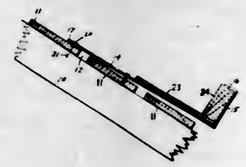


1. In a vehicle body, in combination, a sheet-metal roof for said vehicle, a sheet-metal member interconnected with said roof to form a closed hollow longitudinal roof rail, means for connecting one end of the interior of said rail to the outside air near one end of the body, means for the connecting of the other end of the interior of said rail to form an outlet within the body, said rail is formed with a small slit between the sheet-metal member and the inside of said roof, and removable compressible means mounted for closing said slit while providing access to the interior of said rail.



---

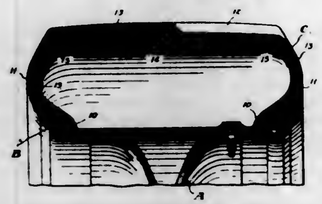
2,388,420
**BRACKET FOR ROOF BOARDS**
**John Kott, Portland, Oreg.**
**Application February 7, 1944, Serial No. 521,349**
**1 Claim. (Cl. 304—20)**



A bracket for roof boards consisting of an elongated bar having slots formed near one end thereof and having the opposite end turned normal to the body thereof, the tip of the outer end being turned backwardly in parallelism with the main body of the bar, a shingle protecting board disposed on the outer side of said bar, and having its lower edge engaging the out-turned portion thereof and a foot board supported by said out-turned portion between said shingle board and the tip of said out-turned end.

---

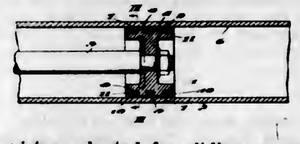
2,388,421
**PNEUMATIC TIRE**
**Herman T. Kraft and Fred H. Comey, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**
**Application June 23, 1942, Serial No. 448,056**
**10 Claims. (Cl. 152—352)**



1. In a structurally integral pneumatic tire casing vulcanized in one piece and having beads, flexible side walls and a wide flexible but inextensible tread of substantially cylindrical form, a series of layers of transverse cords embedded in the rubber of the tire casing and extending from bead to bead, and a series of layers of circumferential cords embedded in the rubber of the tire casing in the cylindrical portion thereof interiorly of the transverse cords to hold said cylindrical portion against radial expansion, said circumferential cords being free to separate transversely from each other upon transverse stretching of the rubber in which they are embedded.

---

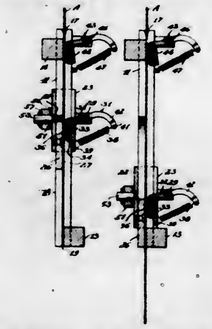
2,388,422
**PISTON CONSTRUCTION**
**Oscar Krastel, Columbus, Ohio**
**Application October 2, 1943, Serial No. 504,771**
**6 Claims. (Cl. 309—4)**



1. A piston adapted for sliding movement in a fluid-receiving cylinder composed substantially of aluminum, said piston comprising a body formed substantially of aluminum, a plurality of spaced annular grooves provided in the outer wall of said piston body, a non-metallic packing ring positioned in one of said grooves, and a plurality of unbroken annular guide rings positioned in the remainder of said grooves, said guide rings being formed from a metal possessing greater hardness than the metal composing said cylinder and piston, each of said guide rings possessing a greater diameter than said piston body, whereby the outer surfaces of said guide rings have a close fitting sliding engagement with the inner wall surfaces of said cylinders and space the outer surfaces of the piston body from said cylinder surfaces, the outer peripheral portion of each of said guide rings being rounded in cross section to limit the contact area thereof with said cylinder surfaces.

---

2,388,423
**LIGHT SENSITIVE MATERIAL FEEDING MECHANISM**
**Samuel W. Langdon, Rochester, N. Y., assignor to Marful Specialties Incorporated, Rochester, N. Y., a corporation of New York**
**Application September 4, 1944, Serial No. 552,711**
**4 Claims. (Cl. 271—2.5)**



1. A feeding device for sheet material comprising, in combination, a support across which the sheet is fed, a carriage having a plane surface on one side of the sheet, a feeding device pivoted to the carriage on the other side of the sheet, said feeding device having a sheet engaging surface and said pivot being eccentric with respect to the sheet engaging surface, means for normally urging said feeding device about said pivot into engagement with the sheet, means for moving said carriage, a stationary element on one side of the sheet and a pivoted holding device on the other side of said sheet, means for normally urg-

ing said holding device into engagement with said sheet, said feeding device when the carriage is moved being shifted about said pivot to wedge the sheet between said plane surface and the sheet engaging surface, said holding device during sheet feeding movement of the carriage sliding over the surface and upon reverse movement of the carriage wedging the sheet between said stationary element and the holding device.

---

2,388,424

## ONE-WAY ROTARY CLUTCH

Johan Lund, Detroit, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan

Application September 20, 1943, Serial No. 503,126
2 Claims. (Cl. 192—45.1)



1. In a one-way rotary clutch, coaxial relatively revoluble inner and outer members having spaced concentric surfaces, a series of sprag members substantially filling the space between said surfaces and end-contacting therewith when at a slight angle to radial lines, the whole series forming a circumferentially non-compressible annulus predeterminedly limiting the angular movement of each sprag, and resilient means encircling the series for imparting a turning moment to each individual sprag within the limits of its movement.

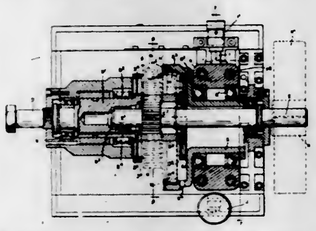
---

2,388,425

## TRANSMISSION UNIT TESTING MACHINE

Johan Lund, Detroit, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan

Application January 10, 1944, Serial No. 517,723
6 Claims. (Cl. 73—432)



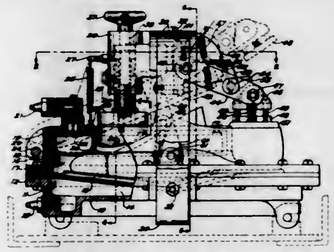
1. A machine for testing intermittent driving assemblies constituting portions of variable speed transmissions each of said assemblies including a rockable member, a gear wheel and a one-way clutch therebetween; said testing machine comprising a drive shaft, a coaxial driven shaft, a gear wheel on said driven shaft, means for detachably mounting on said drive shaft a plurality of said assemblies with the gear wheels thereof in mesh with the gear wheel on said driven shaft, and means for oscillating said rockable members out of phase with each other during each cycle of said drive shaft whereby the gear wheels of said assemblies will be intermittently clutched and declutched to transmit accelerated motion to said driven shaft.

2,388,426

## SOLE ATTACHING PRESS

Kenneth W. Macdonald, Winchester, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware

Application January 20, 1944, Serial No. 518,938
9 Claims. (Cl. 12—33)



1. In a shoe press having a member for engaging the toe of a lasted shoe, an arcuate welt holddown retaining member having a horizontal flange extending around and spaced from said toe engaging member, and an arcuate inflatable welt holddown bag held by said retaining member and limited in its movement thereby.

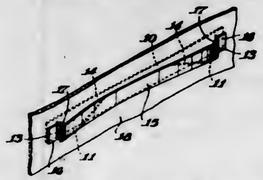
---

2,388,427

## RETAINING MEANS FOR BADGES, BROOCHES, ORNAMENTS, BARS FOR DECORATIVE RIBBONS, OR THE LIKE

Arthur Wakefield Madger, Malden, England

Application August 21, 1943, Serial No. 499,585
In Great Britain July 22, 1943
7 Claims. (Cl. 24—87)



1. Retaining means for articles of ornamental wear, comprising, the combination with the article, of a pair of garment piercing pins each including a shank portion and an angularly disposed pintle at one end, means on the back of the article for pivotally supporting said pintles, and said shank portions each including a garment piercing arm and a cranked portion laterally spaced from and joining said pintle, and a combined pin guard and locking strip having end portions formed to engage beneath the cranked portions of the pin and also provided with shoulders to engage the cranked portions of the pin while the intermediate portion of the strip overlies and conceals the garment piercing arm portions and the points of the pins.

---

2,388,428

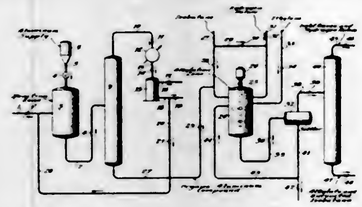
## CATALYSIS OF ORGANIC REACTIONS

Julian M. Mavity, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 31, 1943, Serial No. 481,275
22 Claims. (Cl. 260—671)

19. A hydrocarbon conversion process which comprises introducing to a reaction zone the hydrocarbons to be converted and an organoaluminum halide whose halogen is selected from the group consisting of chlorine, bromine and iodine, reacting said halide in said zone with a sufficient





quantity of a hydrogen halide to liberate aluminum halide from the organoaluminum halide, and subjecting the hydrocarbons to conversion conditions in the presence of the aluminum halide thus formed within the reaction zone.

---

2,388,429

## SEPARATION OF HYDROCARBONS

Art C. McKinnis, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application February 22, 1943, Serial No. 476,771
13 Claims. (Cl. 202—42)

1. A method for the treatment of a complex hydrocarbon fraction to separate chemically similar components from other chemically similar components, different from said first named chemically similar components contained in said complex hydrocarbon fraction, which components distill from said complex hydrocarbon fraction at approximately the same temperature, which comprises distilling said complex hydrocarbon fraction in the presence of a sufficient amount of an alkyl nitrite to vaporize chemically similar components together with said alkyl nitrite, thereby leaving chemically similar components different from said vaporized chemically similar components in the residue, said alkyl nitrite having a boiling point within 25° C. above to 50° C. below the average boiling point of the said complex hydrocarbon fraction.

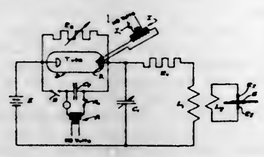
---

2,388,430

## METHOD AND APPARATUS FOR WELDING

George S. Mikhalapov, Media, Pa., assignor, by mesne assignments, to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio

Application December 13, 1940, Serial No. 370,044
14 Claims. (Cl. 219—4)



1. In electric resistance welding apparatus of the electromagnetic energy storage type having an inductive reactor and a secondary welding circuit positioned in operaive inductive relation with respect to said reactor comprising in combination a circuit for applying direct current to said reactor, circuit opening means in said circuit for interrupting the flow of current through said reactor, means to control the rate of rise of the welding current in said secondary circuit comprising a capacitance in parallel with said reactor, and means to control the rate of decay of the current induced in said secondary circuit comprising a resistance connected across said circuit opening means.

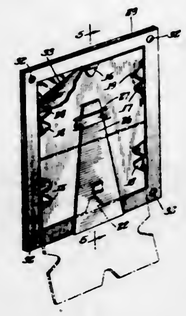
---

2,388,431

## PICTURE MOUNT

Harry Neiman, Chicago, Ill.

Application February 26, 1944, Serial No. 523,964
4 Claims. (Cl. 40—152)



1. The method of forming a picture mount having a peripheral back member and insertable cover plate, which comprises cutting said cover plate from a center portion of a back member along relatively continuous lines, broken, however, to form inwardly extending tabs nonsymmetrically carried by the back member with corresponding edge recesses in the cover member and inverting the cover plate and causing it to engage below and be held in position by said tabs on the marginal back member.

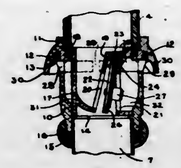
---

2,388,432

## VACUUM BREAKER

Ralph M. Nelson, River Forest, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois

Application January 16, 1943, Serial No. 472,606
1 Claim. (Cl. 137—69)

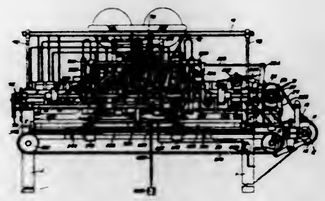


In a vacuum breaker, a one-piece valve body including a generally cylindrical side wall, a ver-

tical partition, and an inclined partition, said partitions being integral with said side wall and defining, with said side wall, a plurality of chambers, including an open bottomed valve chamber between said partitions, said partitions having aligned valve ports, an integral bottom wall extending outwardly from the bottom of the vertical partition a curved bottom wall extending upwardly and outwardly from the lower edge of the inclined partition to the side wall, a valve member movably mounted in said valve chamber and adapted for closing engagement with either port, said valve member being differentiated in color from said valve body, retaining and hinge means for said valve member, including a bracket mounted on said vertical partition and extending toward said inclined partition, and securing means for said bracket, located on the side of said vertical partition opposite to said bracket, and readily accessible from outside of the valve body, and an outer housing surrounding said unitary valve body and formed of transparent material, whereby the relative position of said valve member in relation to said valve body may readily be observed through said outer housing, said outer housing being constituted by a single circumferentially extending body of transparent plastic material.

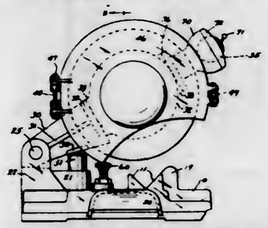
---

**2,388,433**
**APPARATUS FOR FOLDING, BANDING, AND MOUNTING PAPER TICKETS**
**Robert F. Palmer, Wheeling, W. Va.**
**Application July 20, 1942, Serial No. 451,627**
**24 Claims. (Cl. 93—1)**



1. An apparatus of the character described, including means for folding an end portion of a ticket about itself, intermittently operating rotating means for grasping the folded end of the ticket and conveying the same away from the folding means, an intermittently rotatable ticket clamping wheel cooperating with said rotating means having a plurality of radially disposed ticket clamping jaws for grasping the tails of previously folded tickets, means for intermittently rotating the ticket clamping wheel to successively position a clamping jaw to receive the tail of a folded ticket, means for conveying a folded ticket from the first rotating means to one of said jaws of the clamping wheel, means for applying a transversely disposed retaining band to the folded end of the ticket at one station of the rotation of the clamping wheel while the same is supported by said clamping jaw, means whereby said retaining band is finally disposed in encircling relation to the folded end of the ticket, and means for operating all of said means in timed sequential relation.

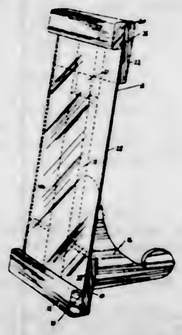
**2,388,434**
**ABRASIVE CUT-OFF MACHINE**
**William A. Phillis, Warren, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio**
**Application June 14, 1944, Serial No. 540,245**
**9 Claims. (Cl. 51—98)**



7. In an abrasive cut-off machine, the combination of a base having an upwardly facing work seat, an arm pivotally attached to the base at its rear portion and extending forwardly and formed intermediately with a motor mounted in the arm in front of the pivot of the arm, an abrasive disc carried by the motor and rotated by the armature shaft of the motor adapted to coact with an article to be cut lying in the work seat, the work seat having an intersecting groove to receive the disc, a handle on the forward end of the arm, and means tending to maintain the arm and motor elevated with the disc above the work seat.

---

**2,388,435**
**DISPLAY EASEL**
**Joseph H. Puerner, also known as J. Harold Puerner, Jefferson, Wis.**
**Application June 5, 1944, Serial No. 538,753**
**6 Claims. (Cl. 40—152.1)**

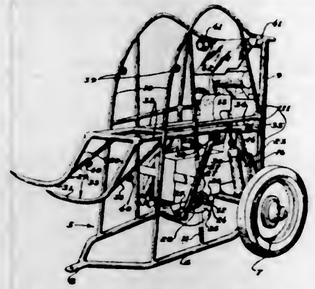


1. A display easel, comprising the combination of a base plate provided with a forwardly offset shouldered portion longitudinally channelled along its upper surface, a standard connected with the central portion of the base plate, a brace adapted to slidingly interlock with the rear portions of the base plate and standard, a top plate having a depending slide adapted for telescopic engagement with the standard, a clamping member secured to the front surface of the top plate and provided with a channel in its under surface in the plane of the mounting channel, and a glass plate engageable in said channels, the channels being of sufficient width to also receive the upper and lower margins of the article to be displayed.



**2,388,436**
**MATERIAL LOADING DEVICE**
**Carmeno A. Onofrio, Gorham, N. H., assignor of one-half to Romeo Orino, Gorham, N. H., and one-eighth to John Orino, Rumford, Maine**
**Application October 4, 1944, Serial No. 557,093**
**10 Claims. (Cl. 214—131)**

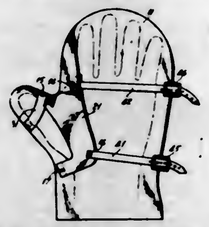
1. A material loading device comprising a trailer, an engine mounted in said trailer, a shaft journalled in said trailer, clutch controlled means to connect said shaft to said engine and to rotate said shaft at a predetermined slow speed, a dog on said shaft, a load shifting element pivotally supported by said trailer, an arm mounted on said shaft for rotation independently thereof and having a portion engageable by said dog as said shaft rotates, a second arm pivotally connected to said first arm and to said load lifting element so that when said dog engages said portion said lifting



element is raised from a loading position adjacent one end of the trailer to a dumping position from which it will return by gravity and in which said first arm has passed through a vertical position, the rate of rotation of said shaft being sufficiently slow so that when said lifting element is in its dumping position, the influence of gravity thereon is effective to return said lifting element to said loading position and to rotate said first arm independently of said shaft.

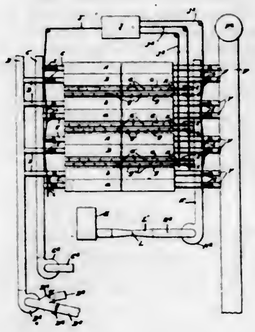
---

**2,388,437**
**RIVETER'S HAND PAD**
**Frederick William Ottmer, Union City, N. J.**
**Application September 30, 1944, Serial No. 556,605**
**2 Claims. (Cl. 2—20)**



1. A riveter's hand pad comprising in combination, a blank of flexible material shaped to cover the back of the hand and wrist, said blank slitted to form an open angle and a thumb portion, an angular blank of flexible material, one leg of the angle piece enlarged to form a gusset and secured in the open angle in the back portion, straps attached to the apex of the angular portion and to the back portion whereby the pad may be held in place upon the back of the hand.

**2,388,438**
**UNDERFIRED COKE OVEN FUEL SUPPLY MEANS**
**Carl Otto, Manhasset, N. Y., assignor to Fuel Refining Corporation, New York, N. Y., a corporation of Delaware**
**Application June 4, 1942, Serial No. 445,723**
**3 Claims. (Cl. 202—142)**



1. An underfired coke oven battery of the type comprising horizontal coking chambers, heating walls alongside said chambers and formed with vertical heating flues, regenerators and regenerator division walls between said chambers and heating walls and a subjacent basement space, said regenerator being connected to said flues for optional use in preheating combustion air for operation with rich fuel gas and in preheating both air and lean gas for operation with lean fuel gas, reversing means periodically reversing the direction of flow through said flues and regenerators, rich gas supply passages extending up to said flues through the regenerator division walls, and including the improvement which consists in means for supplying rich fuel gas admixed with air to the lower end of each such passage during alternate reversal periods in operation with rich fuel gas, comprising a source of rich fuel gas, a piping system having a portion including an inlet connected to a source of atmospheric air external to said basement space, suction means for moving rich fuel gas from said rich gas source toward said passage through said piping system portion and thereby creating a sub-atmospheric pressure in said piping portion and a reversing valve actuated by said reversing means to connect said passage to said rich gas source and to said inlet during reversal periods which alternate with reversal periods in which said passage is disconnected from source and inlet.

---

**2,388,439**
**CUTTING OIL**
**Leslie R. Raymond, Santa Ana, Calif., assignor to A. S. Cowie & Co., Los Angeles, Calif., a corporation of California**
**No Drawing. Application August 21, 1944, Serial No. 550,485**
**6 Claims. (Cl. 252—42.7)**

1. A cutting oil consisting principally of mineral lubricating oil and naphthenic acid in proportions between 5% and 75% naphthenic acid to between 95% and 25% mineral lubricating oil, by volume, and also containing from ½% to about 5% by weight of metallic naphthenate.

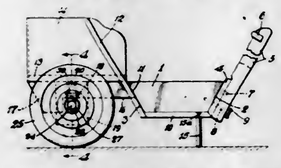
2,388,440
**BETA-CHLOROALLYL ACRYLATES**
Chessie E. Rehberg, Wyndmoor, and Charles H. Fisher, Abington, Pa., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application September 25, 1943, Serial No. 503,833
3 Claims. (Cl. 260—486)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. The process which comprises pyrolyzing a beta-chloroallyl ester of the type corresponding to

$$CH_3.CR_2(OCO.CH_3).COO.CH_2CCl{:}CH_2$$

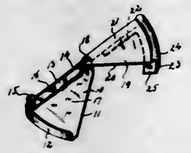
where $R_2$ is a member selected from the group consisting of hydrogen and methyl, under suitable conditions of temperature and time to form the corresponding acrylate.

2,388,441
**VEHICLE FOR CHILDREN**
Paul M. Ressinger, Chicago, Ill.
Application November 11, 1942, Serial No. 465,191
7 Claims. (Cl. 280—60)



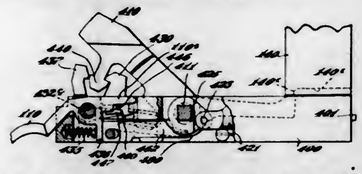
1. In vehicles and the like, a horizontally extending keel piece lying in a generally vertical plane, a horizontally extending seat element mounted upon the upper surface of a rear portion of the keel piece, feet engaging supporting means secured to the lower surface of a forward portion of the keel piece, an axle extending transversely beneath the rear portion of the keel piece and spaced downwardly therefrom, a leaf spring interposed between the top of the axle and the keel piece, the bottom of the keel piece directly engaging the top of the intermediate portion of said spring, said spring having a sliding connection between its ends and the top of the axle, and centering means mounted on the seat and slotted to receive the ends of the axle and the spring, both axle and spring being normally out of contact with the ends of the slots, and wheels mounted on the outer ends of the axle, the weight of the rear portion of the vehicle being received by the spring and transmitted thereby to the ends of the axle.

2,388,442
**PIE HOLDER**
Vernon E. Reyburn, Detroit, Mich.
Application February 18, 1944, Serial No. 522,928
1 Claim. (Cl. 206—4)



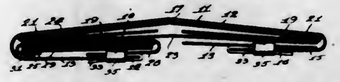
A pie holder of the kind described, comprising two parts: a flat, substantially triangular tray, having two straight sides and an outwardly curved third side, one of the straight sides being open and the other sides being provided with upright walls, and a complementary part of the same substantially triangular shape, having one open side and two sides with walls extending downwardly, the two parts being normally in a spaced relation one above the other, and hinged to swing apart in parallel planes.

2,388,443
**FIRING MECHANISM**
William B. Ruger, Westport, Conn., assignor to Maguire Industries, Incorporated, Bridgeport, Conn., a corporation of New York
Application June 9, 1944, Serial No. 539,503
18 Claims. (Cl. 89—2)



1. In a gun ararnged for automatic and semi-automatic fire, the combination of a hammer, an action slide arranged to retract the hammer to cocked position, an automatic sear adapted to restrain the hammer in cocked position, an automatic sear trip lever actuable by the action slide in the forward position of the latter, a disengageable connection between the automatic sear trip lever and the automatic sear, a slide sear arranged to restrain the action slide in its retracted position at the end of a burst of automatic fire, a fire-control shifter member movable from a position for automatic fire to a position for semi-automatic fire and in such movement operatively engageable with said disengageable connection and with said slide sear first to disconnect the automatic sear trip lever from the automatic sear and subsequently to release the slide sear from the slide, so that in changing from automatic fire to semi-automatic fire the automatic sear trip lever is rendered ineffective before the action slide is allowed to move into its forward position.

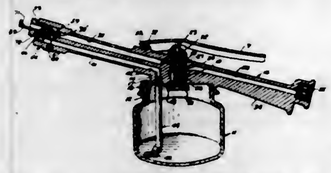
2,388,444
**BILLFOLD**
Lester L. Sherwood, Los Angeles, Calif.
Application February 20, 1943, Serial No. 476,554
2 Claims. (Cl. 150—38)



1. In a bill fold, a body formed from a single piece of thin flexible material and comprising a back wall, flaps projecting from the ends thereof, one of which flaps is provided with an aperture, a back wall lining integral with the upper edge of said back wall, a pair of front walls integral with the lower edge of said back wall, one of said front walls being provided with parallel slits with which the aperture in said flap coincides when the parts of the billfold are folded, a pair of pocket forming partition walls integral with the lower edges of said front walls, tabs on the lower edges and outer ends of said partition forming walls for engaging behind the lower edges and ends of the back wall lining when the body is folded to form the bill fold a flexible buckle having parts passing through the slits in said one front wall, which buckle projects through the aperture in said flap when same is folded onto the front wall and a strap integral with said buckle, which strap passes around the end of the flap and through the portion of the buckle which projects through the aperture in said flap.



2,388,445
**SPRAYING PROPORTIONER**
James W. R. Stewart, Berkeley, Calif., assignor to Stanley A. Hayes, Berkeley, Calif.
Application September 3, 1942, Serial No. 457,117
1 Claim. (Cl. 299—84)



A spraying proportioner comprising, in combination with a container adapted to hold a quantity of liquid pest control material, a container head removably mounted on said container and consisting of a cap having a vent therein, a gun barrel integral with said cap; said barrel having a bore therein for the passage of a carrier liquid and terminating in an enlarged bore portion adjacent its discharge end, a valve controlling flow of carrier liquid through said bore, a metering jet disposed in said enlarged bore portion of said gun barrel; said metering jet consisting of a unitary structure having a series of aligned communicating passages of circular cross-section extending therethrough as well as a side inlet, said passages including in series a relatively short inlet passage, a relatively long central passage of smaller diameter than said inlet passage, a short passage of greater diameter than said central passage, and an outlet passage of greater diameter than that last mentioned short passage, means establishing communication between the interior of said container and the side inlet of said metering jet; said means including a slit in said jet extending transversely thereof between said central and sealing passages.

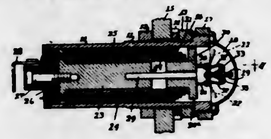
2,388,446
**METHOD FOR MANUFACTURE OF CERAMIC WARES**
Halver R. Straight, Adel, Iowa
No Drawing. Application May 31, 1941, Serial No. 396,167
14 Claims. (Cl. 106—72)

1. In the manufacture of ceramic ware, a method of preparing clay for the forming of ceramic articles which comprises intimately mixing with ceramic clay in the presence of water, an alkali, a hydrocarbon oil and a fatty acid, the alkali being in quantity sufficient to alkalize the water in the presence of the other constituents, the acid being in an amount and of a kind to produce a soap reaction with the alkalized water, and the hydrocarbon oil being of a kind which is miscible with the acid and of an amount that is emulsifiable in the liquid mixture, the aggregate liquids being in such proportion to the clay solids as to form a plastic mass suitable for shaping into ceramic units by pressure.

2,388,447
**METHOD OF MAKING GRAPHITE PENCIL LEADS AND SIMILAR ARTICLES**
Halver R. Straight, Adel, Iowa
No Drawing. Application February 26, 1942, Serial No. 432,456
22 Claims. (Cl. 106—56)

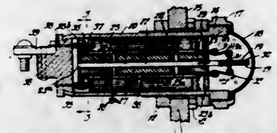
1. A method of making ceramic articles of the type described, which comprises forming a wetting mixture by reacting an alkaline water solution of a metallic silicate compound with a higher fatty acid which is soap forming in such a solution, agitating the resulting mixture to keep the reaction products in suspension, filming a mass of ground graphite and clay particles with the wetting mixture and converting the mass into a moldable plastic condition, shaping an article from the plastic mass and firing the article at a temperature effective to flux a portion of the silica present, whereby to produce a bonding glass, and cooling the glass to form a bond uniting the solid particles.

2,388,448
**INDICATOR**
Edward V. Sundt, Arcadia, and Joseph Purcell, El Monte, Calif., assignors to Littelfuse, Inc., Chicago, Ill., a corporation of Illinois
Application May 3, 1943, Serial No. 485,476
6 Claims. (Cl. 177—329)



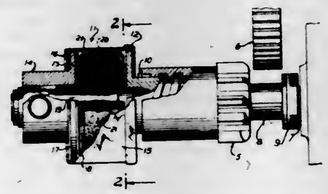
1. An indicator comprising a pair of pivotally mounted vanes swingable from an angular relation into close parallel relation and vice versa, luminescent material on the forward contiguous surfaces of the vanes whereby the material of both vanes is concealed mutually by the vanes when the latter are in said parallel relation, and means operatively connected to opposite portions of the vanes for moving the latter in unison from either of said positions to the other.

2,388,449
**INDICATOR**
Edward V. Sundt, Arcadia, and Joseph Purcell, El Monte, Calif., assignors to Littelfuse, Inc., Chicago, Ill., a corporation of Illinois
Application August 5, 1943, Serial No. 497,428
11 Claims. (Cl. 177—329)



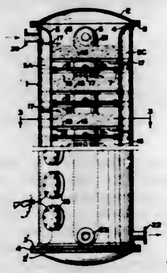
7. An indicator comprising a pair of indicator members swingable to and from indicating positions, and electro-magnetic means for swinging the members comprising a magnetic winding and dynamically balanced mechanism operable by the winding, said mechanism comprising a pair of armatures operatively connected to and supporting said members and operable by the winding in opposite directions upon energization thereof and spring means acting on the armatures for moving the same in opposite directions upon de-energization of the winding.

2,388,450
**ENGINE STARTER**
Glenn S. Thompson, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application October 19, 1942, Serial No. 462,527
4 Claims. (Cl. 64—11)



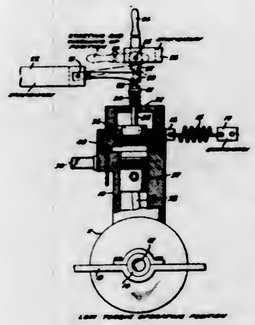
1. In an engine starter having a pinion and a pinion actuating member screw-connected so that relative rotation therebetween propels the pinion axially to and from an operative driving position: means for yieldingly driving the actuating member from a power shaft comprising a driving abutment fixed with respect to the shaft; a driven abutment fixed with respect to the actuating member, said abutments being spaced axially; a shell fixed to one of the abutments and having angularly disposed side wall portions enclosing the space between the abutments, said angularly disposed side wall portions constituting a housing structure noncircular in cross section on a plane normal to the axis of the starter; noncircular means fixed with relation to the other abutment and disposed within the space between the abutments and inside the housing structure; cushion members confined between the housing structure and said noncircular means to provide a resilient torque transmitting connection therebetween, said cushion members being composed of material having cubical elasticity; and means for transmitting axial forces, due to reaction of the pinion propelling actuating member, into the fixed driving abutment including a washer interposed between said cushion members and the driving abutment.

2,388,451
**REACTOR**
George T. Tobiasson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 24, 1941, Serial No. 384,865
6 Claims. (Cl. 23—288)



1. A reactor comprising a shell, a plurality of spaced imperforate partitions extending transversely across the shell and forming in the shell a plurality of reaction zones, a perforated catalyst supporting member in each of said zones and disposed in spaced relation to the imperforate partitions, a pair of inlet conduits and a pair of outlet conduits extending longitudinally of the shell at spaced points around the periphery of the shell, openings in one of said inlet conduits communicating with some of said zones on one side of the perforated members therein, openings in one of said outlet conduits communicating with the last-named zones on the opposite side of the perforated members therein, openings in the other of said inlet conduits communicating with the remaining reaction zones on one side of the perforated members in these zones, and openings in the other of said outlet conduits communicating with said remaining zones on the opposite side of the last-named perforated members.

2,388,452
**GASOLINE ENGINE**
Robert A. Weatherup, Jacksonville, Fla.
Application August 31, 1944, Serial No. 552,057
15 Claims. (Cl. 123—48)



1. In a device of the character described in combination an engine, a cylinder comprising a part of said engine and means operable by the torque developed by said engine for varying the volumetric capacity of said cylinder in accordance with manifold pressure, said last mentioned means comprising a movable auxiliary piston in said cylinder, and means including a cam follower associated with said piston and a cam surface for varying the position of said piston in said cylinder.

2,388,453
**FEEDER FOR AUTOMATIC FIREARMS**
George Webb, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Original application March 22, 1940, Serial No. 325,405. Divided and this application April 6, 1942, Serial No. 437,853
9 Claims. (Cl. 89—35)

1. A feeder adapted to enter the feed channel of an automatic firearm and comprising in combination, a guide plate structure of substantially uniform width from end to end and having uniformly spaced notches in one edge thereof, a substantially U-shaped member connected to but structurally separate from said plate, the sides of said member comprising parallel depending

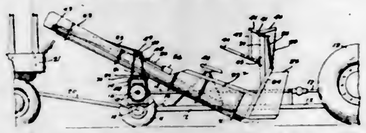


side flanges spaced inward from the edges of said guide plate, and means positioned between



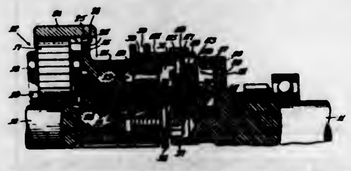
the side flanges and spaced lengthwise of the feeder in accordance with the notch spacing for detachably holding a plurality of cartridges.

2,388,454
**HARVESTER**
Waldo W. Weeth and Eugene Weeth, Coalinga, Calif., and Marlin E. Dollahite, Johnson City, Tex.; said Dollahite assignor to said Waldo W. Weeth and Eugene Weeth
Application October 9, 1943, Serial No. 505,630
3 Claims. (Cl. 56—33)



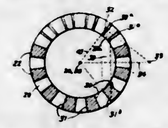
1. A row crop harvester comprising a supporting frame with a wheel supported axle and a central forwardly extending member constituting a draft tongue, inclined forwardly, extending supplemental frames mounted above the axle at each side of the central member on pivots affording both vertical and lateral movement, an upright standard on the forward portion of the central member, resilient suspension means between the forward ends of the supplemental frames and the upper portion of the standard, and freely movable control levers pivoted on each side of the standard and flexibly connected to the forward ends of the supplemental frames for shifting them, the free ends of the levers extending adjacent the operator's station.

2,388,455
**TRANSMISSION CONTROL**
Samuel O. White, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 8, 1943, Serial No. 478,383
3 Claims. (Cl. 74—290)



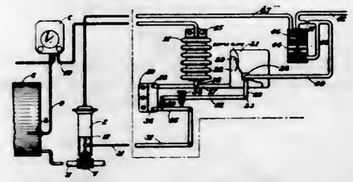
1. In a transmission, a driving shaft and a driven shaft, means for transmitting an overdrive from the driving shaft to the driven shaft, said means including planetary gearing having its planet gear carrier continuously joined to said driving shaft, an overrunning clutch for transmitting a one-way direct drive from the driving shaft to the driven shaft, means comprising a shiftable clutch annulus for transmitting a two-way direct drive between said driving shaft and said driven shaft, a shift member for said clutch annulus, a hollow member engageable with said clutch annulus to provide said two-way direct drive and providing a direct connection between the ring gear of said planetary gearing and said driven shaft and constituting an outer member for said overrunning clutch and a support and guide for said shift member, and a sleeve disposed on and connected to the driving shaft for rotation therewith and continuously serving as the inner member of said overrunning clutch and as the carrier for said shiftable clutch annulus.

2,388,456
**FACE CLUTCH**
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application October 29, 1942, Serial No. 463,772
27 Claims. (Cl. 192—67)



1. A toothed face clutch member, opposite side tooth surfaces of which are parts of surfaces of revolution whose axes lie in the pitch plane of the clutch member and are perpendicular to the clutch axis.

2,388,457
**CONTROLLING SYSTEM**
John G. Ziegler, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application May 21, 1942, Serial No. 443,977
11 Claims. (Cl. 236—82)

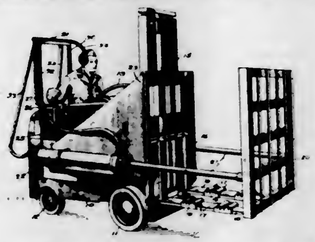


2. In a condition controlling system, a source of pressure fluid, mechanism operable in accordance with variations in a condition to be controlled for throttling said fluid to cause different values of output pressure thereof, means including a spring-loaded pressure fluid operated valve having a given range for applying a correcting medium to control said condition at a predetermined value, said valve being provided with a beveled valve disc, a pneumatic control couple including a baffle element and a nozzle element, the space relation between said elements governing the application of pressure fluid to effect the movement of said valve disc, and means adjusted in response to different values in the output pressure of said fluid and in response to the movement of said valve disc for changing the space relation between said baffle and said nozzle, said baffle element having a convex surface of predetermined contour with different portions of which

surface said nozzle cooperates as the position of said valve changes, said baffle element providing with said nozzle element a control effect according to a desired functional relation between the amount of said mechanism movement and the amount of the movement of said valve disc, whereby equal changes in said output pressure cause unequal movements of said valve disc in different portions of its range so that said valve can approximately reproduce the relation of condition change to consequent valve flow of various other types of valves such as those known as ratio plug, throttle plug and the like.

---

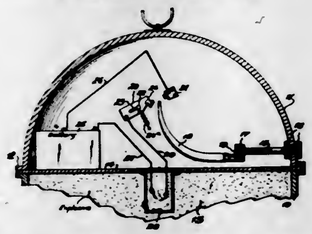
**2,388,458**
**FORK-LIFT TRUCK**
**James R. Alfonte, United States Army, Fortville, Ind.**
**Application September 9, 1944, Serial No. 553,418**
**3 Claims. (Cl. 214—84)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A fork-lift truck for handling palletized goods, including a fork, anti-friction means on the fork adapted to be passed up through an opening in the load-bearing surface of a conventional pallet so as to space the goods above the pallet, means for raising and lowering the fork, and means for pushing the goods from the anti-friction means to a point beyond the pallet.

---

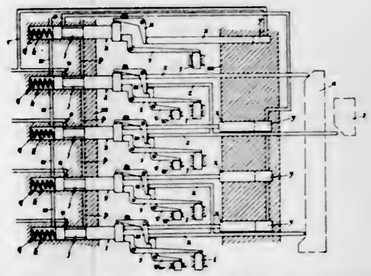
**2,388,459**
**BOMB**
**Charles S. Allen, Jr., Greenville, S. C.**
**Application November 17, 1942, Serial No. 465,916**
**1 Claim. (Cl. 102—16)**



A bomb comprising a casing, a charge firing means in said casing including normally spaced stationary and movable contact members, a catch shoulder and an inclined surface on the movable contact member, a deformable pressure controlled element, means for subjecting said element to the pressure of the medium surrounding said casing, said element having one end inoperatively disposed in the space between said members when subjected to atmospheric pressure, said end moving along said inclined surface and beyond said shoulder when said element is subjected to hydrostatic pressure of a predetermined value, and means for displacing the movable member to engage said shoulder over said end of the element whereby the contact members are moved into engagement by subsequent deformation of the element in response to a reduction in the hydrostatic pressure.

---

**2,388,460**
**CONTROL MECHANISM FOR FLUID OPERATED PARTS OF MACHINE TOOLS**
**Harold Richard Bagley, Tile Hill, Coventry, England, assignor to A. C. Wickman Limited, Coventry, England**
**Application November 27, 1943, Serial No. 512,012**
**In Great Britain December 17, 1942**
**2 Claims. (Cl. 60—97)**



1. Control mechanism for fluid operated parts of a machine tool, having in combination a plurality of valves each adapted to control an individual operation of the machine, a master valve adapted to initiate automatic action of all of the other valves, members operable by an attendant for individually moving the valves in one direction against the action of spring or fluid pressure, catches for individually holding the valves in the positions to which they are movable by the said members, additional members operable by the attendant for releasing the catches associated with, and thereby allowing return movements, of all of the valves with the exception of the master valve, hydraulic means controlled by the master valve for moving at least one of the other valves in the first mentioned direction, a push rod responsive to a movable part of the machine for moving another of the valves in the first mentioned direction, hydraulic means for releasing the catch associated with, and thereby allowing return movement of the master valve, under the control of the valve operable by the push rod, and additional push rods responsive to a movable part of the machine for releasing the catches associated with, and thereby allowing return movement of, all of the valves with the exception of the master valve.

---

**2,388,461**
**PAVING STRIPPING APPARATUS**
**Henry E. Baker, Milton, Mass.**
**Application July 4, 1944, Serial No. 543,482**
**5 Claims. (Cl. 262—8)**

1. In a paving stripper rig, a stripper boom having rigidly secured to its lower end a stripper plate having area several times greater than the cross-sectional area of the stripper boom and disposed flatwise directly against the end of the boom approximately in right angular relation to the axis of said boom, said plate having relatively large



projection outward from the boom on three sides including the side toward said rig and there being spaced projections on the plate at its edge which is toward said rig, whereby said projections and

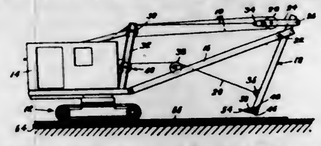
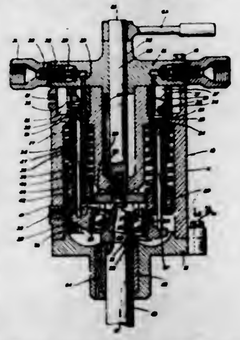


plate can engage deeply under a section of pavement which is to be stripped from a road bed, and a said section of pavement lifted by said plate can have relatively large integral lateral extent at opposite sides of the plate.

---

**2,388,462**
**MULTIPLE METERING PUMP**
**Louis Beeh, Woodside, N. Y.**
**Application July 19, 1944, Serial No. 545,560**
**5 Claims. (Cl. 103—173)**



1. A multiple injection pump comprising a substantially cylindrical housing with a central axis and including a cover, an interior and coaxial shell-like portion, and an annular partition between the housing wall and said shell-like portion so as to form an upper and a lower chamber each with a charging opening for fuel and oil respectively; a plurality of pump units, each unit including a cylinder secured to said partition and extending into said upper and lower chambers so as to be closed at its upper end by said cover, each cylinder being provided with an inlet port communicating with said upper chamber and with an outlet port for connection to a discharge, a plunger in each cylinder, each plunger having a helically-face head to control the inlet port of its cylinder, a common driven means cyclically movable about a center on said central axis to reciprocate said plungers, common means mounted in said housing in connection with said shell-like member to adjust the position of the plungers peripherally with respect to their cylinders, and a rod-like member movable in said shell-like portion and in connection with said common means to operate the latter.

---

**2,388,463**
**PRACTICE GOLF CLUB**
**Louis A. Benecke, St. Louis, Mo.**
**Application January 13, 1943, Serial No. 472,276**
**4 Claims (Cl. 273—35)**

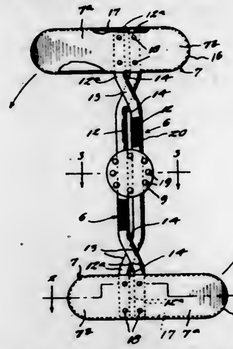
1. In a practice golf club wherein audible clicks indicate improper practice strokes, a shaft provided with a handle at one end, a head freely slidable on the opposite end of said shaft, said freely slidable head being movable toward said handle in response to an improper upward swing of the practice golf club, and stop elements car-



ried by said shaft and slidable head to limit the sliding movements, said stop elements including a stop member carried by the head separated from but arranged to strike a stop member on said shaft so as to limit the sliding movement of said head when the practice club is in service.

---

**2,388,464**
**AIRPLANE PROPELLER**
**Bernhard Bergen, Washington, D. C.**
**Application June 13, 1944, Serial No. 540,069**
**3 Claims. (Cl. 170—167)**



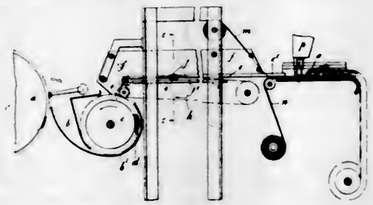
1. In an all-metal airplane propeller of the character described, and in combination with a propeller shaft, an arm connected to and extending transversely of the forward end of the shaft, a propeller blade mounted on and extending transversely of each of the outer ends of said arm, said arm including a pair of tubular members and said blades being of shell-like form, the connection of said arm with the shaft including a pair of disk-like members, a rib spacing the members and disposed between said tubular members with one of said disks secured to said shaft and nut and bolt combinations carried by said disk members and associated with said tubular member for retaining the latter in position, and a steel cable extending through each tubular member to reinforce the same.

---

**2,388,465**
**PRODUCTION OF PILE FABRICS**
**Thomas Arthur Brown, Bradford, England, assignor to Brown, Ogden & Company Limited, Bradford, England, a British company**
**Application May 3, 1944, Serial No. 533,912**
**In Great Britain May 15, 1943**
**6 Claims. (Cl. 112—9)**

1. A machine for producing a pile fabric comprising a plurality of spaced apart plates and

means for projecting textile fibres on to the edges of the plates so that the fibres extend around the edges of the plates, across from plate to plate,



and up into the spaces between the plates, means for traversing the fibres along the plates, and means securing the fibrous mass to a backing.

---

2,388,466
**CHEMICAL IMMERSION HEATER**
Walter Anderson Caldwell, Seamill, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application January 9, 1942, Serial No. 426,234
In Great Britain October 25, 1940
8 Claims. (Cl. 126—263)



1. A portable immersion heater comprising an elongated container having a closed end, a lining of heat-insulating material therein adapted to retard the transfer of heat from the interior to the walls of the container, a charge of heating composition in the container adjacent the closed end, said charge having ingredients which react chemically and produce heat upon ignition, a filter substantially coextensive in cross-sectional area with the interior of the container above the charge, comprising a gas pervious plug of substantial thickness of refractory wool through which gases from the charge may pass and having a central fuse passage therethrough, means for confining the filter and the charge in the container, vent means in the other end of the container through which gases passing through the body of the plug may escape to the outside, and a fuse accessible from the outside and extending through the vent means and the central passage in the filter to said charge.

2,388,467
**METHOD OF MAKING GRIP NUTS FROM PUNCHED BLANKS**
Edward J. Cole, Peekskill, N. Y., assignor to Cole Machinery Mfg. Corp., New York, N. Y.
Application July 7, 1944, Serial No. 543,800
6 Claims. (Cl. 10—86)



1. The method of forming grip nuts of the type having a constricted threaded bore adjacent the crown face of the nut comprising initially and simultaneously punching the nut blank from suitable stock with a uniform diameter central bore and a slightly outwardly flared crown portion, threading the bore, thereafter pressing the sides of the blank into parallelism to remove the flare from the crown portion and reduce the diameter of the adjacent end of the threaded bore.

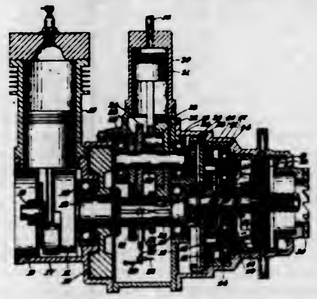
---

2,388,468
**ORGANIC SULPHUR COMPOUNDS**
Jack Compton, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 17, 1944, Serial No. 536,052
6 Claims. (Cl. 260—132)

1. The organic sulphur compounds produced by the reaction of quaternary ammonium hydroxides with carbon disulphide.

---

2,388,469
**STARTER FOR INTERNAL-COMBUSTION ENGINES**
Harry da Costa, London, England, assignor to The Plessey Company Limited, Ilford, England, a British company
Application April 3, 1942, Serial No. 437,539
In Great Britain March 19, 1941
11 Claims. (Cl. 123—179)



1. Apparatus for starting a main internal-combustion engine comprising, in combination, an auxiliary internal-combustion engine, motion-transmission means for coupling the auxiliary engine to the main engine including a releasable coupling member and a reduction-gear train interposed between the auxiliary engine and the coupling member, a cartridge-operated power device, motion-transmission means operatively connecting the power device with the auxiliary engine and serving to start the latter, a cartridge-firing mechanism, means serving to



condition the auxiliary engine for running, and a control member operatively connected to said firing mechanism and to said conditioning means whereby the single control member serves to set the starter apparatus fully into operation, said conditioning means including an ignition switch for the auxiliary engine and means to control the supply of fuel to the auxiliary engine, the ignition switch and fuel control means each having operative connections with said control member.

---

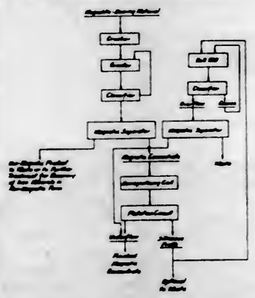
2,388,470
**COSMETIC UNIT**
Martin de Botelho, New York, N. Y.
Application July 16, 1943, Serial No. 495,017
1 Claim. (Cl. 15—184)



A cosmetic unit comprising a rectangular outer box having a transverse ledge rising from the floor near one end thereof, a small rectangular insert box snugly fitting in said box and secured in place therein at the end thereof remote from said ledge, said insert box having an end wall, upstanding side walls, a cover resting upon said side walls when closed, and a fabric hinge connecting said cover to said end wall, said insert box being open at the end thereof opposite said end wall, whereby a brush positioned in said outer box with its handle resting upon said ledge, will when the handle end thereof is depressed for purposes of removal, tilt upward at its bristle end past the edge of the hinged cover of the insert box for incidental relief of any adhesion of the bristles.

---

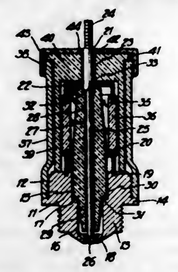
2,388,471
**BENEFICIATION OF MAGNETITE CONCENTRATES BY FLOTATION**
Fred D. De Vaney, Hibbing, Minn., assignor to Erie Mining Company, Hibbing, Minn., a corporation of Minnesota
Application November 3, 1943, Serial No. 508,849
9 Claims. (Cl. 209—39)



Process of separately recovering magnetic and locked magnetite-silicious gangue particles from a pulp mixture containing the same together with free silica and non-magnetic oxidic iron, which comprises subjecting said mixture to magnetic separation so as to remove therefrom free silica and non-magnetic oxidic iron, demagnetizing the residual mixture, subjecting the residual mixture to froth flotation using a cationic collector whereby the locked magnetite-silicious gangue particles are floated while the free magnetite particles remain in the underflow, removing the froth product rich in locked magnetite-silicious gangue particles, and recovering substantially clean magnetite from the underflow.

---

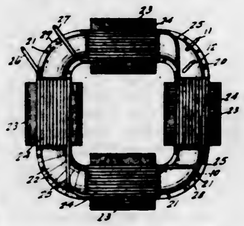
2,388,472
**SPARK PLUG**
Joseph O. C. di Tona, Newark, N. J.
Application March 23, 1944, Serial No 527,715
7 Claims. (Cl. 123—169)



1. A spark plug comprising a screw base having a ground electrode, a casing having one of its ends threaded to said base, an end closure threaded to the other end of said casing, a lead electrode mounted axially within said casing having one of its ends in spaced relation to the ground electrode and its other end extending beyond said end closure, insulating means within said casing for shielding said lead electrode, and a sealed chamber within said casing between the base and the end closure through which said lead electrode passes.

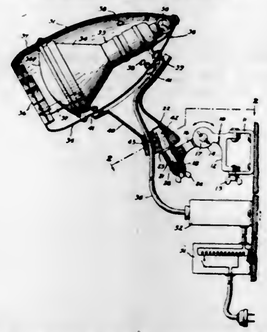
---

2,388,473
**TRANSFORMER**
Charles H. Dunton, Berkeley, Calif.
Application March 14, 1944, Serial No. 526,403
4 Claims. (Cl. 175—356)



1. A transformer, in combination, a magnetizable ring core having a primary wound about a portion thereof with the turns parallel to the axis of the ring, and toroidal secondary winding comprising a plurality of turns and axially threaded through said ring core and extending about one side thereof with the turns parallel to those of the primary winding; a conductive non-magnetic metal shield completely enclosing said secondary winding and passing, with the secondary therein, through said ring core, and formed of rings of relatively small cross-section with interlocking faces insulated from each other.

2,388,474
**INSPECTION LIGHT**
Greer Ellis, Chicago, Ill., assignor, by mesne assignments, to Joseph L. Switzer and Robert C. Switzer
Application January 7, 1943, Serial No. 471,545
2 Claims. (Cl. 248—278)



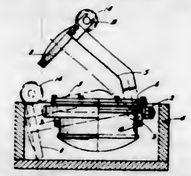
2. In a mounting for a demountable light, a bracket, a sleeve, means connecting said bracket and said sleeve permitting universal angular movement of said sleeve with respect to said bracket, means to lock said sleeve with respect to said bracket, a stud rotatable in said sleeve and receivable in either end thereof, means to lock said stud in said sleeve, and a staff portion of said stud extending beyond said sleeve, said staff portion having at least one non-circular cross-section.

2,388,475
**RECOVERY OF PYRROLE**
Karl Henry Engel, Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 21, 1943, Serial No. 487,975
3 Claims. (Cl. 260—290)

1. A process for recovering pyrrole from a mixture of heterocyclic nitrogen compounds from coal tar, containing pyrrole along with pyridine homologs including a picoline selected from the group consisting of 3-picoline and 4-picoline, which process comprises fractionating said mixture to obtain a fraction boiling in the range of about 140°–148° C., treating said fraction with potassium hydroxide in amount sufficient to react with the pyrrole to form potassium pyrrole, refluxing the resulting mixture together with a small proportion of hydrocarbon oil boiling below about 140° C., with separation of water from the reflux condensate, until substantially all water has been removed from the reaction mixture, and separating the potassium pyrrole which precipitates.

2,388,476
**ADJUSTABLE SUPPORT FOR LENSES AND LAMPS USED IN CONNECTION WITH COMPASSES AND THE LIKE**
Edward William Esdaile, Sydney, New South Wales, Australia
Application August 3, 1944, Serial No. 547,884
In Australia May 24, 1944
2 Claims. (Cl. 88—39)

1. In an arrangement of the character described the combination with an open topped casing and a magnetic compass arranged therein and provided with a lubber line, of a frame pivotally connected to the sides of the casing for swinging movement above the casing, a magnifying lens carried medially of the frame, the axis of the



pivot of the frame being so placed that it passes approximately through the periphery of the compass adjacent the lubber line, and the lens being so arranged on the frame that the axis of the lens also passes approximately through the said axis of the pivot and said lubber line.

2,388,477
**MODIFIERS FOR POLYMERIZATION OF BUTADIENE-1,3 HYDROCARBONS**
Charles F. Fryling, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 12, 1944, Serial No. 530,725
18 Claims. (Cl. 260—84.5)

1. The method which comprises polymerizing in aqueous emulsion a butadiene-1,3 hydrocarbon in the presence of a compound containing a monovalent aryl group attached to a carbon atom of a 2-thiothiazyl group.

2,388,478
**TARGET KITE**
Paul E. Garber, United States Navy
Application August 14, 1944, Serial No. 549,469
8 Claims. (Cl. 244—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A maneuvering kite and control comprising a substantially diamond shaped kite having a mast and a spar fastened together and a cover therefor; a bridle line fastened to the mast at points adjacent its ends; a bridle stick connected at its mid-point to said bridle line at a point closer to the upper end thereof than the other; a rudder pivotally attached to said mast adjacent the rear end thereof; a tiller bar attached to said rudder; control cords connecting the ends of said bridle stick to the ends of said tiller bar; spaced guides on said spar through which said control cords pass; means limiting the movement of said rudder to approximately 90 degrees on either side of its neutral position; a control bar adapted to be used by an operator on the ground; and lines connecting the ends of said bridle stick to the ends of said control bar.

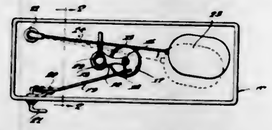


2,388,479
**VENEER STRIP, COILS THEREOF, AND METHOD OF PREPARING SAME**
Paul R. Goldman, Andover, Mass., assignor to Plymold Corporation, Lawrence, Mass., a corporation
Application October 21, 1942, Serial No. 462,800
4 Claims. (Cl. 144—309)



1. The method of preparing thin flexible wood strips for subsequent manufacturing purposes which comprises forming and assembling a plurality of elongated wood pieces of the width and thickness desired for the strip in a manner to present the graining predominantly in mutual parallelism, applying a bonding agent at end areas of pieces to be connected end to end, lapping said areas, subjecting the lapped areas to substantial pressure adequate to compress them to a thinness uniform with that of the individual component pieces, repeating said steps with successive pieces as facilitated by said mutually parallel graining arrangement to provide a continuous strip of indeterminate length, and freely coiling the strip into roll package form for subsequent off-feeding rotatively in any desired length thereof.

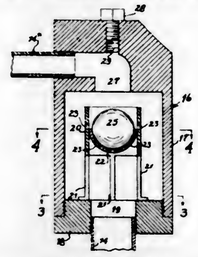
2,388,480
**ATTACHMENT FOR FLUSH TANKS**
Edgar B. Green, Washington, D. C.
Application December 3, 1943, Serial No. 512,760
3 Claims. (Cl. 4—57)



1. An attachment for flush tanks consisting of an elongated body having means at one end for suspension from the upper end of the overflow pipe of the flush tank, said body extending downwardly at an inclination with respect to said overflow pipe and in the path of downward movement of the rod of a float valve of the flush tank, whereby to effect lateral movement of said rod upon lowering movement of said float valve.

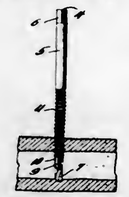
2,388,481
**SAFETY LIQUID STOP**
James B. Green, Sarasota, Fla., assignor to Green's Fuel, Incorporated, Sarasota, Fla., a corporation of Florida
Application July 27, 1944, Serial No. 546,856
1 Claim. (Cl. 137—69)

In a liquid petroleum system having an uprising vapor pipe extending therefrom, a shell member having its lower end connected to the vapor pipe, a cylindrical member disposed in the shell member and having a plurality of legs secured at their lower ends to the lower end of the shell, a cup-shaped member mounted in the cylindrical member and having a hole in its lowermost portion and said cylindrical member having holes therein disposed above the upper edge of the cup-shaped member, a spherical float adapted to rest in the cup-shaped member, the upper end of the shell member having a right angle passageway therethrough, one leg of the passageway being vertically disposed and centered above the cylindrical member and the other leg being horizontally disposed, a vapor outlet pipe connected to the horizontally disposed portion of the passage-



way, a vertically disposed screw plug disposed in the upper end of the shell member and centered above the cylindrical member, rising of liquid into the shell member serving to raise the float to close the lower end of the vertical leg of said passageway in the upper portion of the casing.

2,388,482
**SURGICAL SCREW**
Herbert H. Haynes, Clarksburg, W. Va.
Application January 16, 1943, Serial No. 472,649
2 Claims. (Cl. 10—140)

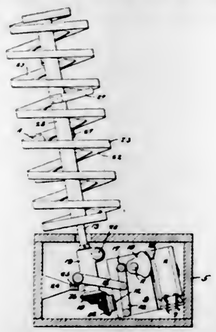


1. A device of the character described comprising a surgical screw for securing skeletal splints, said surgical screw including a shaft, a drill portion formed on an end of the shaft, said drill portion provided with relatively shallow grooves and terminating in a tapered point, screw threads formed on the shaft above the drill portion and extending a sufficient distance to permit the threads to engage the adjacent cortex of a bone when the drill point is imbedded in the opposite cortex, and one or more longitudinal grooves extending from within the threaded section to the drill point on the end of the shaft, said groove or grooves being parallel to the axis of the shaft and terminating in a surface having a radius of curvature.

2,388,483
**MECHANICAL TOY**
George M. Hess, Altoona, Pa.
Application July 12, 1944, Serial No. 544,535
2 Claims. (Cl. 46—43)

1. A mechanical toy comprising a base, a pivoted shaft mounted on the base and extending above the base, a track formed spirally of the shaft and over which an object gravitates to the bottom of the track, a motor-operated gearing within the base, said gearing including a drive pinion, a pinion secured to the lower end of the pivoted shaft, said shaft adapted to tilt laterally

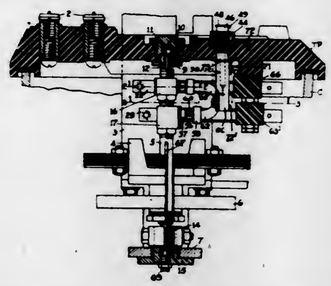
moving the pinion carried thereby into mesh with the drive pinion, whereby the shaft and track are rotated feeding the object movable over the track, to the upper end of the track, and



means for periodically moving the shaft to its vertical position disengaging the pinions, and a brake for stopping rotation of the shaft and track when the shaft is moved to a vertical position.

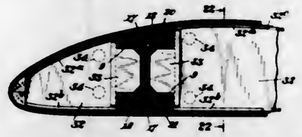
---

**2,388,484**
**OSCILLATING CODE TRANSMITTER**
**Ralph W. Hewes, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.**
**Application January 21, 1943, Serial No. 473,100**
**5 Claims. (Cl. 184—102)**



1. In combination with an oscillating coder having a casing enclosing a shaft, means for oscillating the shaft, a cam fixed to the shaft, a contact finger adjacent the cam, a pusher on the finger and in operative rubbing association with the cam; an oiling system including an elongated oil cup within the casing and having one end accessible from outside of the casing, a relatively large longitudinal reservoir in the cup and terminating at said one end of the cup, a relatively restricted lateral bore connecting the reservoir with a lateral face of the cup, a two-ended wick, means for detachably clamping one end of the wick against the open end of the lateral bore, and means for holding the other end of the wick in engagement with the rubbing surface of the cam and including a rigid angle bracket fastened to the contact finger, a rigid clip bracket removably fastenable to the angle bracket, the wick being held between these two brackets and having its rubbing end projecting only slightly beyond the rigid brackets.

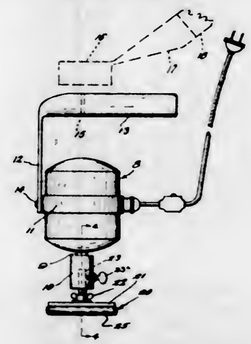
**2,388,485**
**METHOD OF MAKING AIRPLANE STRUCTURES**
**Martin Jensen, Port Washington, N. Y., assignor to Langley Aviation Corporation, New York, N. Y., a corporation of Delaware**
**Application September 20, 1941, Serial No. 411,663**
**11 Claims. (Cl. 144—309)**



4. The herein described process of forming structures composed of a plurality of separately formed parts united by thermoplastic adhesive having a critical softening temperature, which comprises assembling a plurality of laminae with thermoplastic adhesive therebetween, applying heat and pressure to bond said laminae together and mold them to predetermined shape to form a part of said structure, and thereafter uniting said part with other parts by assembling said parts with thermoplastic adhesive therebetween, and subjecting said assembly to a further heat and pressure cycle with temperatures above said critical temperature while maintaining said bond between the previously joined laminae during said subsequent joining.

---

**2,388,486**
**SURFACE WAXING AND POLISHING MACHINE**
**Mack E. Lederman, Seattle, Wash.**
**Application October 15, 1943, Serial No. 506,430**
**1 Claim. (Cl. 15—97)**



A floor waxing machine comprising a portable electric motor of the vibrator type having a vertical shaft longitudinally reciprocable to have rapid, substantially imperceptible short strokes, said shaft having a projecting lower end, a handle carried by the motor, and a floor polishing or waxing applicator of the rigid type carried by the projecting lower end of said shaft for rapidly striking the surface being treated while being manually moved over the latter, the active surface of said applicator being flat and of relatively large area and disposed at right angles to the axis of reciprocation of said shaft.

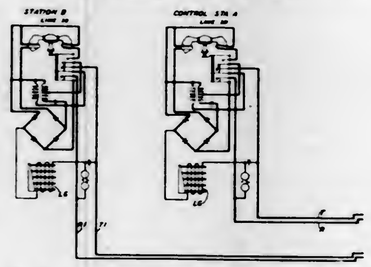


**2,388,487**
**PROCESS OF MAKING COMPRESSED FIBER PRODUCTS**
**Harry K. Linzell, Long Lake, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois**
**No Drawing. Application January 22, 1940, Serial No. 315,005**
**8 Claims. (Cl. 92—39)**

1. Process of accelerating the formation of autogenously produced binders resulting from the treatment of lignocellulosic materials under pressure at a temperature above 350° F., but short of the carbonization of the material, which comprises carrying out the process in the presence of a ferric compound with the lignocellulosic material initially containing not over 5% of moisture.

---

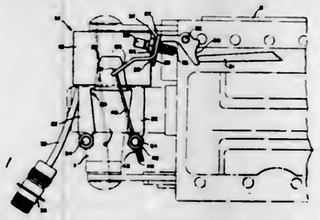
**2,388,488**
**TELEPHONE SYSTEM**
**William A. Malthaner, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application February 18, 1944, Serial No. 522,860**
**13 Claims. (Cl. 179—22)**



1. In a telephone system, the combination with a calling line, a link connected to said line and a trunk having an identifying designation, of a trunk marker responsive to said designation for controlling the extension of said line to said trunk after said link has been disconnected from said line.

---

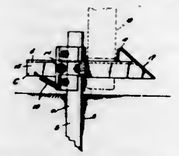
**2,388,489**
**FIRE CONTROL**
**Roscoe I. Markey, East Orange, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey**
**Application October 6, 1941, Serial No. 413,786**
**1 Claim. (Cl. 89—28)**



In an automatic firearm including two spaced spade grips and a buffer tube all extending rearwardly from the gun, said buffer tube being positioned between the spade grips; a gun firing control comprising a trigger for firing said gun, said trigger pivotally mounted on the rear of the gun and having a finger piece extending therefrom to a position adjacent one of said spade grips, a solenoid for electrically actuating said trigger, said solenoid constructed and arranged to have an overall length less than the length of the buffer tube, means mounting said solenoid on the buffer tube, with the longitudinal axis of said solenoid parallel with axis of said buffer tube and with the full length of the solenoid located between the ends of said buffer tube, a pin within said solenoid and constructed and arranged to be moved by said solenoid when the solenoid is energized, said trigger having a portion offset from the pivot thereof and extending into the path of movement of said pin, whereby operation of said solenoid will actuate the trigger for gun firing.

---

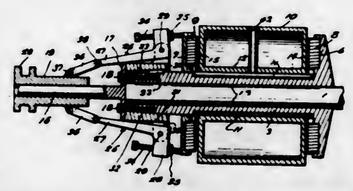
**2,388,490**
**GARAGE DOOR HOLDER**
**John E. McJimsey, Larkspur, Calif.**
**Application September 8, 1944, Serial No. 553,220**
**2 Claims. (Cl. 292—121)**



1. A door holder comprising a right angular upright, a right angular clamp on the outside of said upright, a right angular arm pivotally connected to said clamp at right angles to said upright, said arm being provided with a beveled head over which a door is adapted to ride in depressing the corresponding end of said arm, and individual clamp plates inside the edges of said upright and bolted to said right angular clamp forming channels therebetween adapted to receive the edge portions of said upright.

---

**2,388,491**
**FRICTION DRIVE**
**Harry Albert McKee, Washington, Pa.**
**Application May 4, 1944, Serial No. 534,141**
**1 Claim. (Cl. 192—68)**

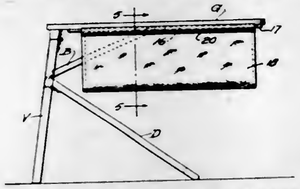


In combination, a driving shaft, a driven sleeve keyed on the shaft, a clutch disc fixed on one end of the sleeve, a clutch disc on the sleeve intermediate its ends shiftable toward the fixed clutch disc, a pulley rotatable on said sleeve and adapted to be gripped between said clutch discs when the shiftable clutch disc is shifted toward the fixed disc, and means for shifting the shiftable clutch disc comprising a collar wedged on the other end of the sleeve, a spindle extending axially from said other end of the sleeve and having an end flange bolted to said other end of the sleeve and bearing against the collar to retain the same on said sleeve, a shiftable sleeve on said spindle, a

plurality of screw-carrying levers pivoted on said collar for operation to thrust said screws against the shiftable clutch disc, and operating connections between the shiftable sleeve and said levers.

---

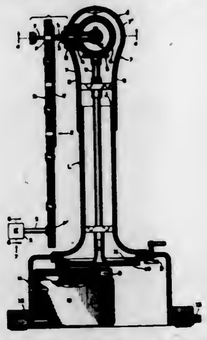
**2,388,492**
**ATTACHMENT FOR IRONING BOARDS**
**Astelle Montalbano, North Sacramento, Calif.**
**Application June 17, 1944, Serial No. 540,781**
**1 Claim. (Cl. 38—111)**



In combination with an ironing board, a one-piece wire frame having re-bent portions forming spaced parallel legs engaging against the underside of said board and having spaced parallel terminal portions extending along the sides of said board in spaced relation thereto, said legs and parallel portions extending longitudinally of the board, clips screwed to the underside of the board and straddling re-bent leg portions of the frame intermediate their ends, and an apron secured at its sides to said terminal portions and depending beneath said board.

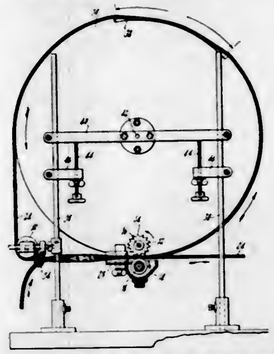
---

**2,388,493**
**OPHTHALMIC DEVICE**
**George M. Nelsen, Seattle, Wash.**
**Application April 29, 1944, Serial No. 533,346**
**15 Claims. (Cl. 128—76.5)**



4. An ophthalmic device comprising a turret having an arcuate dome with a slot therethrough, a bearing block slidably mounted in said slot, a cross shaft concentric with said arcuate dome and slot, a stub shaft mounted upon said cross shaft, a beveled gear rotatably mounted on said stub shaft and having a journal mounted in said bearing block, a radius arm keyed to said journal, an ophthalmic target upon a stem carried by said radius arm, an intermediate gear upon said cross shaft and meshing with said beveled gear, a drive shaft, a beveled gear fixed to said drive shaft and meshing with said intermediate gear, and means to move said bearing block around the axis of said cross shaft to thereby position said radius arm in different planes of rotation.

**2,388,494**
**METHOD OF AND APPARATUS FOR COATING STRIPS**
**Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts**
**Application August 20, 1941, Serial No. 407,593**
**10 Claims. (Cl. 117—68)**



10. Apparatus for coating a strip, comprising means for delivering a coating substance to strip material traveling in laterally separated paths, means for propelling a strip in one of such paths in receiving relation to said delivering means, and guide means constructed and disposed to lead the strip in a loop from said path to another one of the first-mentioned plurality of paths in receiving relation to said delivering means; the strip being twisted in its passage from said guiding means to the said other path so as to present its opposite side to the delivering means.

---

**2,388,495**
**WHISTLE**
**August Marius Osterholt, Hoboken, N. J.**
**Application April 21, 1945, Serial No. 589,548**
**2 Claims. (Cl. 46—179)**



2. In a device of the character described, a block of a thickness to fit conveniently between the lips, a portion of said block extending into the mouth and forming an anvil against which the tongue is adapted to rest, and means forming a V-shaped slot extending completely through said block positioned at a point adapted to extend into the mouth to form an air passage, the apex of said V-shaped groove pointing toward said anvil.

---

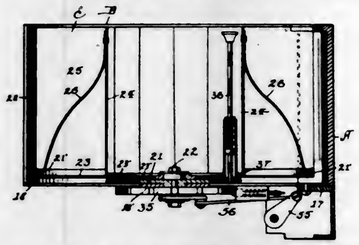
**2,388,496**
**METHOD OF PREPARING COPPER ARSENICALS**
**George W. Pearce and Alfred W. Avens, Geneva, N. Y.**
**No Drawing. Original application June 18, 1940, Serial No. 341,179. Divided and this application August 9, 1943, Serial No. 497,969**
**3 Claims. (Cl. 23—53)**

1. The method of preparing copper arsenicals of definite composition, which consists in taking solid dicalcium arsenate, mixing it with copper bearing material in excess, and heating the mixture to a temperature at which the reacting materials react to form a copper arsenical compound.



---

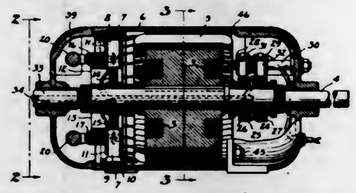
**2,388,497**
**VENDING MACHINE**
**Charles F. Pease, Long Beach, Calif.**
**Application November 4, 1942, Serial No. 464,452**
**7 Claims. (Cl. 312—97.1)**



2. In a unit for dispensing articles, a base, an enclosure wall above the base having a gateway through its rearward portion and a face member on its forward side, said face member having a forwardly opening orifice, a turntable freely revolubule upon said base, an annular magazine frame journaled to revolve with said turntable having an annular series of segmental compartments opening radially outwardly within said closure wall in which a plurality of articles to be dispensed are adapted to be held, said compartments being normally closed within said enclosure wall and adapted to coincide with said orifice successively to permit the delivery of an article at a time to the exterior of the unit when the magazine frame is rotated a step forward, a releasable lock pin engaging the magazine frame to the turntable and when withdrawn permitting the magazine frame to swivel freely and provide free access for filling the compartments in the magazine frame through said gateway, and ratchet mechanism for operating the turntable to successively rotate the magazine frame and cause the compartments therein to successively register with said orifice and permit the discharge of an article at a time through said orifice.

---

**2,388,498**
**DIRECT-CURRENT MOTOR**
**Gustav A. Reinhard, Shaker Heights, Ohio, assignor to Kohl-Stilwell Engineers, Cleveland, Ohio, a firm composed of Everard F. Kohl and William E. Stilwell, Jr.**
**Application July 27, 1942, Serial No. 452,427**
**8 Claims. (Cl. 172—36)**



1. A dynamo-electric machine of the series type comprising a casing having a cylindrical portion, a core, stationary armature coils associated with said core, a rotor including a shaft, said rotor having poles arranged in close proximity to said core and carrying field windings, a stationary commutator arranged around the inner periphery of the cylindrical portion of said casing, a pair of conductive brushes rotatable with said shaft and slidably engaging said commutator, and means for supplying electrical energy from a direct current source to said brushes including a circuit in which one of said brushes is in series with said field windings and said commutator being electrically connected to said armature coils to produce a flux between said core and poles during the rotation of said shaft.

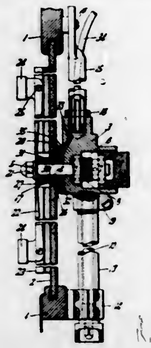
---

**2,388,499**
**RECOVERING PURE BETA-PICOLINE**
**George Riethof, Mount Lebanon, Pa., assignor to Pittsburgh Coke & Iron Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application May 12, 1942, Serial No. 442,725**
**10 Claims. (Cl. 260—290)**

1. A process of recovering pure beta-picoline from basic oil mixtures containing beta-picoline and appreciable amounts of gamma-picoline and 2,6-lutidine comprising combining the gamma-picoline and 2,6-lutidine with a cyclic aldehyde selected from the group consisting of aromatic aldehydes and furfural by heating the basic oil mixture with said cyclic aldehyde at a temperature of 130° to 180° C. in the presence of acetic anhydride, the reaction being substantially completed in a time substantially less than ten hours and thereafter separating unchanged beta-picoline from the reaction mixture.

---

**2,388,500**
**WINDSHIELD CLEANER**
**Earl V. Schaal, East Aurora, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.**
**Application January 24, 1940, Serial No. 315,396**
**2 Claims. (Cl. 15—250.4)**



1. A windshield cleaner comprising a housing with means for supporting the housing adjacent the inner surface of the windshield glass, said housing having a sleeve extending through an opening in the glass, a shaft journaled in the housing with one end protruding from the sleeve, wiper means fixed to the protruding end of the shaft for operation thereby over the outer surface of the glass, means for operating the shaft, a spray nozzle in the form of a sleeve encircling the housing sleeve and fixed to the housing, said noz-

zle having an annular series of orifices discharging radially between the point of connection of said wiper means with the shaft and the windshield glass, and means for supplying the nozzle with a solvent.

---

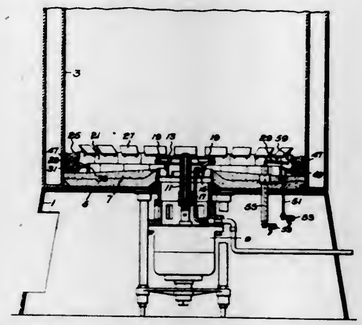
**2,388,501**
**GARDEN SEEDER**
**Walter Schrader, Garden City, N. Y., assignor to American Seil Products Co., Inc., New York, N. Y., a corporation of New York**
**Application February 25, 1944, Serial No. 523,825**
**2 Claims. (Cl. 229—17)**



1. A conical garden seeder device formed from a single flexible blank having a relatively long arcuate edge, a pair of converging side edges one of which extends from the arcuate edge, a relatively short arcuate edge connecting the converging edges, a substantially straight edge extending from the relatively long arcuate edge in converging relation to other of the pair of converging edges, a U-shaped slit provided adjacent the mid portion of the blank having its leg portions extending toward the relatively short arcuate edge, and a straight slit in said blank extending from the bight portion of the U-shaped slit to that one of the pair of converging edges which is arranged in converging relation to said substantially straight edge, whereby said blank may be manually formed into a conical body and outwardly displace the U-shaped slit portion thereof to provide a discharge opening in the apex end of the conical body by overlapping and gripping portions of the blank adjacent opposite sides of the straight slit.

---

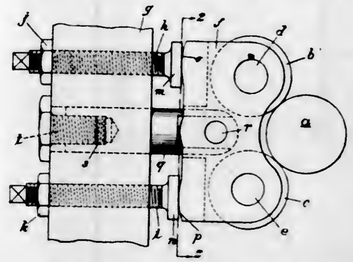
**2,388,502**
**WALL FLAME TYPE BURNER**
**Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut**
**Application August 2, 1941, Serial No. 405,233**
**10 Claims. (Cl. 158—4)**



1. A segment of a combustion ring for a wall flame type burner comprising a relatively thin walled metal body shaped to form a gutter on the inner side thereof, and an upstanding wall above the outer side of the gutter, said gutter and the adjacent side of said wall having a coating of vitreous enamel of low heat conductivity.

---

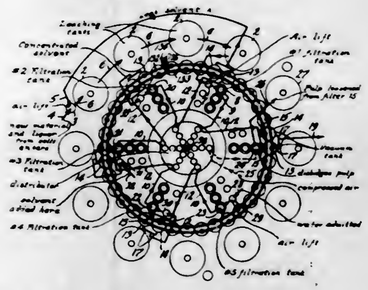
**2,388,503**
**SHAFT BEARING**
**Leo Caspar Steinle, Wimbledon, London S. W. 19, and Cedric Harold Hanwell, Cogenhoe, England**
**Application February 15, 1943, Serial No. 475,996**
**In Great Britain March 25, 1942**
**3 Claims. (Cl. 308—22)**



1. A readily detachable bearing support for an outboard portion of a shaft comprising a fixed support, adjustable abutment members, means for securing said abutment members rigidly in relation to said fixed support, a head, a plurality of freely rotatable rollers on said head, readily mountable and demountable means, disposed between said securing means, for holding said head rigidly against said abutment members with said rollers engaging and supporting said shaft portion.

---

**2,388,504**
**LEACHING METHOD AND APPARATUS**
**Lucien Charles Sturbelle, Brussels, Belgium**
**Application April 23, 1940, Serial No. 331,265**
**In Belgium April 26, 1939**
**21 Claims. (Cl. 23—267)**

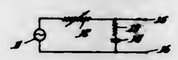


17. Leaching apparatus comprising a frame, an upright shaft supported by said frame for endwise movement and for rotation, a plurality of leaching tanks arranged in a row concentrically about said shaft but spaced therefrom, a plurality of pulp thickener tanks disposed one above another along said shaft, with each thickener tank open at its top and having the shaft passing upwardly through the bottom of the tank, agitating means surrounding the shaft in each of said thickener tanks and rotated by the shaft, a plurality of filter tanks arranged in rows extending concentrically about said shaft and disposed at a level adjacent the top of said thickener tanks, a distributor disposed above the uppermost thickener tank, concentric with said shaft and splined to said shaft for rotation therewith, means connecting one group of said leaching tanks together in series one to another, another group of said leaching tanks in series to one another, whereby solids to be leached may be leached with one leaching liquid in one group and with a different leaching liquid in another group, a plurality of hollow filter elements, means carried by the upper part of said shaft for suspending said filter elements individually above said filter tanks, means for elevating said shaft, imparting thereto an increment of rotation equal to the distance between adjacent filter elements in the direction of rotation and then lowering it, repeatedly in cycles with a period of rest between cycles, whereby said filter elements will be lowered into said filter tanks successively, means for forming a coating of solids from one series of leaching tanks on a filter element while in one of said filter tanks, and drawing leaching liquid through said coating while that coated filter element is in other of said filter tanks, and means for forming a coating of solids from another series of leaching tanks on a filter element while in another of said filter tanks and drawing leaching liquid through said last named coating while that filter element is in still other of said filter tanks.

20. The improved method of progressive leaching to remove a desired component from a selected material, which comprises passing the material to be leached in finely divided form mixed with a leaching liquid containing a weak solvent through a series of leaching tanks in succession, then forming a coating of said finely divided material from the leaching tanks on a porous base by filtration of said mixture through said porous base, then passing a leaching agent through said formed coating, while it remains unbroken and on said base, in a plurality of successive operations, using approximately all water as the agent for the last of said operations in said succession, using the passed liquid from each of the operations after the first operation as the agent for the next preceding operation, using the passed liquid from said first operation as the leaching liquid admitted to said leaching tanks, and adding a fresh solvent for said component to the liquid passed through said coating at an intermediate one of said operations.

---

**2,388,505**
**TONE COMPENSATED VOLUME CONTROL**
**David E. Sunstein, Elkins Park, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania**
**Application April 29, 1944, Serial No. 533,367**
**4 Claims. (Cl. 179—1)**



1. In an audio frequency system, a source of audio frequency signals, a volume control circuit constructed and arranged to maintain an apparent tonal balance throughout the volume range, said volume control circuit having a pair of input terminals and a pair of output terminals, means for coupling said source to said input terminals, a variable resistor connected between one of said input terminals and one of said output terminals, and a fixed resistance and a fixed capacitance connected in series across said output terminals, the time constant of said series-connected elements being of the order of

$$\frac{10^{-4}}{2\pi}$$

second, said variable resistor being adjustable between a minimum value of approximately zero ohms and a maximum value of the order of hundreds of times the value of said fixed resistor, whereby variations in volume level may be effected without substantially disturbing the tonal balance.

---

**2,388,506**
**PURIFICATION OF NITRILES**
**John W. Teter, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application October 6, 1943,**
**Serial No. 505,195**
**2 Claims. (Cl. 202—42)**

1. A process for removing hydrocarbon impurities from nitriles of the class consisting of propionitrile, normal butyronitrile, and iso-butyronitrile which comprises adding methyl alcohol to the hydrocarbon-contaminated nitrile and distilling off the hydrocarbon contaminant and added alcohol from the nitrile as an azeotrope.

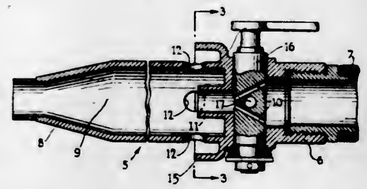
---

**2,388,507**
**DEHYDRATION OF NITRILES**
**John W. Teter and Walter J. Merwin, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application October 6, 1943,**
**Serial No. 505,199**
**4 Claims. (Cl. 202—42)**

1. A process for the dehydration of water-contaminated, saturated nitriles of 3 to 4 carbon atoms per molecule which comprises adding to the water-contaminated nitrile a nitrile other than that to be dehydrated and which forms with water an azeotrope boiling at a temperature below the boiling point of the water-azeotrope of the nitrile to be dehydrated, subjecting the mixture to fractional distillation and distilling off the water and the added nitrile as an azeotrope.

---

**2,388,508**
**NOZZLE**
**Lewis G. Morris Timpson, Plainfield, N. J.**
**Application March 4, 1944, Serial No. 525,066**
**2 Claims. (Cl. 261—116)**

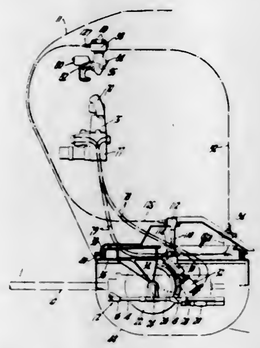


1. A foam-forming nozzle of the character described having a plurality of forwardly directed jet-forming passages entering the rear of the nozzle at an angle to one another so as to bring a plurality of entering liquid jets into the nozzle in impinging relation one to another to form spray, lateral ports in the side of the nozzle relatively close to the position of entrance of the

jets, a rotatable transverse valve member through which the jet-forming passages pass whereby rotation of the valve member will vary the spray formed, and a cylindrical baffle within which the spray is formed and by which it is confined.

---

**2,388,509**
**ORDNANCE**
**John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.**
**Application May 19, 1943, Serial No. 487,607**
**5 Claims. (Cl. 89—41)**

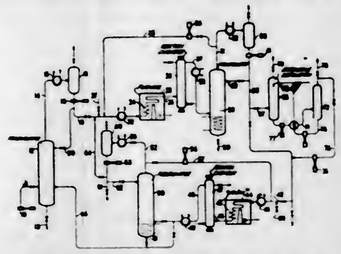


1. For use in a gun battery wherein a gun pivotally mounted for movement in elevation and azimuth has a sight remotely placed relative to the gun position, a sight mount frame pivoted to said sight for relative movement of the latter about a horizontal axis, said sight frame being pivotable for rotation about a vertical axis; the combination with said sight of sight azimuth aim adjustment means comprising a torsional drive member operably connected at one end to the gun by means of a velocity increase gear and at its other end to said sight by means of a velocity decrease gear for pivoting said sight about said sight frame axis in consonance with gun elevational aim adjustments, and a second torsional drive member operably connected at one of its ends to the gun by means of a velocity increase gear and at its other end to said sight by means of a velocity decrease gear while being threaded intermediately of its ends through said sight frame rotation axis for procuring elevational aim adjustment movements of said sight in synchronism with gun elevational movements.

---

**2,388,510**
**OLEFIN CONVERSION**
**Hervey H. Voge, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**Application August 14, 1942, Serial No. 454,869**
**11 Claims. (Cl. 260—683.2)**

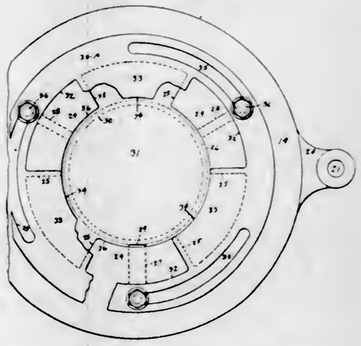
5. A process for the production of 2-butylene from a hydrocarbon mixture comprising 1-butylene and isobutylene, which comprises contacting said hydrocarbon mixture in a first conversion zone with a catalyst comprising bauxite at a temperature of from about 300° C. to about 375° C. and at a liquid hourly space velocity of from about 10 to about 25, thereby effecting the conversion of 1-butylene to 2-butylene as the predominant reaction, said bauxite having first been subjected to a temperature of from about 500° C. to about 800° C. thereby rendering said bauxite active for the conversion of 1-butylene to 2-butylene in said conversion temperature range, separating a fraction comprising 2-butylene and a fraction comprising isobutylene from the effluence of the first conversion zone, contacting said fraction comprising isobutylene in a second conversion zone with a catalyst comprising alumina at a temperature of from



about 450° C. to about 550° C. and at a liquid hourly space velocity of from about 1 to about 10, thereby effecting the conversion of isobutylene to normal butylenes as the predominant reaction, separating a fraction comprising 2-butylene and a fraction comprising 1-butylene from the effluence of said second conversion zone, and passing said fraction comprising 1-butylene to the first conversion zone.

---

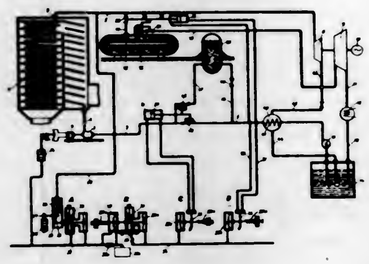
**2,388,511**
**HOT GAS OUTLET THIMBLE**
**Richard C. Wright, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.**
**Application April 8, 1944, Serial No. 530,219**
**3 Claims. (Cl. 110—49)**



1. A device of the class described, consisting of a cylindrical thimble, a flange extending inwardly and outwardly from said thimble the inwardly extending portion of said flange being cut away at spaced intervals, a circular disc having a circular opening formed therein substantially equal to the opening in said flange, said disc having spaced cut-out portions in said flange when said disc is loaded with relation thereto, said thimble having radial ribs on the interior thereof, the lowermost one of which extends above the lowermost interior edge of said disc, and means for fixing the relationship between said disc with relation to said flange.



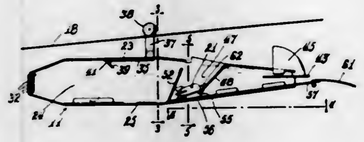
**2,388,512**
**REGULATING DEVICE FOR STEAM GENERATORS**
**Guido Wünsch, Berlin-Wannsee, Germany; vested in the Alien Property Custodian**
**Application March 28, 1940, Serial No. 326,527**
**In Germany March 8, 1939**
**4 Claims. (Cl. 122—35)**



1. In a vapor power plant a vapor generator having a once-through fluid passage receiving liquid at one end and delivering vapor at the other end, a pump connected to supply liquid to the generator a liquid accumulator also connected to receive liquid from the supply pump for relieving said generator during changes in load on the generator by storing pre-heated liquid and discharging it into the receiving end of said passage due to an increase in the generator load, controlling means responsive to the rate of generator load changes for controlling the charging and discharging of said liquid accumulator.

---

**2,388,513**
**AERIAL TOY**
**Elmer L. Zwickel, Chicago, Ill.**
**Application December 31, 1942, Serial No. 470,714**
**10 Claims. (Cl. 46—77)**



1. A toy aircraft including an elongated body having top, bottom and side walls, hangers on said top wall adapted to be engaged with an elevated trolley whereby the aircraft can move substantially horizontally, a flap formed in the top wall to define an opening when said flap is folded downwardly into said body, a flap in the bottom wall to define an aligned opening when said flap is folded upwardly into said body, means securing said flaps in such folded position to provide spaced front and rear walls of a receptacle having as its sides the side walls of said body, a movable closure for the bottom wall opening whereby at least one missile may be retained in said receptacle, and means operable to move the closure to discharge the missile.

---

**2,388,514**
**MODIFIERS FOR POLYMERIZATION OF BUTADIENE-1,3 HYDROCARBONS**
**Benjamin M. G. Zwicker, Akron, Ohio, and William D. Stewart, Yonkers, N. Y., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application May 15, 1944, Serial No. 535,762**
**17 Claims. (Cl. 260—84.5)**

1. The method which comprises polymerizing in aqueous emulsion a butadiene-1,3 hydrocarbon in the presence of a compound of the formula

$$R—(S)_n—X$$

wherein R is a thiazyl-2-radical, $n$ is an integer from 1 to 4 and X is a monovalent organic radical, other than R, having its monovalency on a carbon atom.

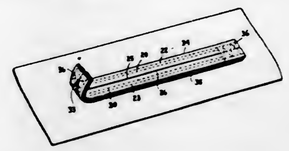
---

**2,388,515**
**MODIFIERS FOR POLYMERIZATION OF BUTADIENE-1,3 HYDROCARBONS**
**Benjamin M. G. Zwicker, Akron, Ohio, and William D. Stewart, Yonkers, N. Y., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application May 15, 1944, Serial No. 535,763**
**14 Claims. (Cl. 260—84.5)**

1. The method which comprises polymerizing in aqueous emulsion a butadiene-1,3 hydrocarbon in the presence of a compound containing an alkyl group attached to a ring carbon atom of a 2-thio-arylenethiazyl group.

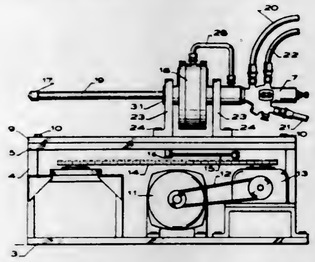
---

**2,388,516**
**DOUBLE-PIPED GARMENT OPENING**
**Fulgenzio Altobelli, Syracuse, N. Y., assignor of two-fifths to Theodore E. Simonton, Syracuse, N. Y.**
**Application October 4, 1944, Serial No. 557,186**
**8 Claims. (Cl. 2—247)**



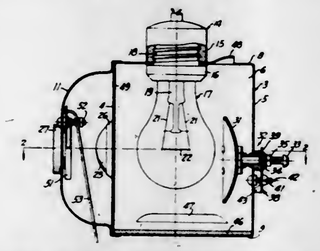
1. The method of making a double piped garment opening, which comprises folding and securing a strip of piping material substantially longer than the desired garment opening to form a flat, tubular tape having two smooth longitudinal edges, sewing said tape to the garment over the desired location for said garment opening by two rows of stitching spaced substantially equidistant from said two smooth tape edges and extending substantially the length of the desired opening, slitting said tape and garment substantially midway between said two rows of stitching for substantially the length of said rows of stitching and slitting said tape for its entire length, turning said tape through said garment slit so as to position said two smooth edges adjacent one another, and sewing the severed halves of the tape at each end thereof together by stitching adjacent to and extending transversely of the corresponding end of said garment slit.

**2,388,517**
**SPRAY COATING APPARATUS**
**Frank A. Bailey and Godfrey A. Miller, Toledo, Ohio, assignors to The DeVilbiss Company, Toledo, Ohio, a corporation of Ohio**
**Application March 6, 1943, Serial No. 478,276**
**6 Claims. (Cl. 299—62)**



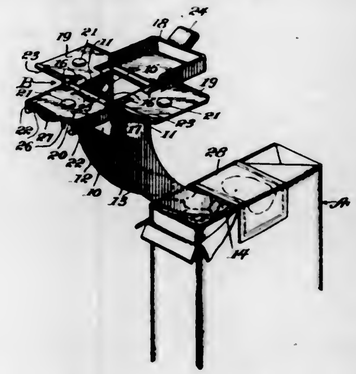
6. In a coating apparatus, a spray device, a reciprocable mounting therefor, associated sprockets positioned below the mounting, a motor-driven chain running over the sprockets, a connecting rod, the rod connecting the chain and the mounting to give the latter reciprocable motion, a rotatable nozzle on the spray device, a pulley associated with the nozzle, a belt over the pulley for rotating the nozzle, and a driving pulley for the belt supported in a stationary position relative to the reciprocable mounting and having an elongated cylindrical belt contacting surface over which the belt may ride laterally in following the movement of the reciprocable mounting, the total of the diameters of the belt pulleys being sufficiently larger than that of the sprockets to permit the belt to travel on either side of the chain.

**2,388,518**
**EGG CANDLING DEVICE**
**Joseph J. Balocchi, San Francisco, Calif.**
**Application May 30, 1944, Serial No. 538,043**
**1 Claim. (Cl. 88—14.92)**



An egg candling device comprising a casing having a top, sides and bottom, louvers in the sides and top of said casing to permit air circulation through said casing, a lamp, means supporting said lamp from the top of the casing, said casing also including a light emission aperture in a side thereof, a lens mounted in said aperture, said lamp including a filament extending in a straight line between two supports in the lamp, said lamp being mounted in a position wherein the filament coincides with a line passing at right angles through the center of the lens, a reflector positioned adjacent the lamp and on that side of the casing which is opposite said lens, means supporting the reflector for movement toward and away from the filament, said means including ball and socket means supporting the reflector for rotation about the lamp, an auxiliary casing mounted exteriorly of said casing on one side thereof and having an aperture therein to permit a beam of light from said lens to pass therethrough a ring of resilient material fitted in said aperture for receiving an egg to be candled, a light filter, means mounting said filter within said auxiliary casing for movement between a first position in which said filter is interposed in the path of said beam between said auxiliary casing aperture and said lens and a second position in which said filter is disposed out of said light beam but within said auxiliary casing, and means extending through said auxiliary casing for moving said filter between said positions.

**2,388,519**
**CIGARETTE PACKAGE COVER**
**Leroy V. Bell, Wakefield, R. I.**
**Application November 30, 1944, Serial No. 565,900**
**4 Claims. (Cl. 206—41)**

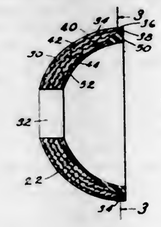


1. A cover or lid attachment for a package having an opening in one corner of its wrapper, comprising a mouth frame having opposed side walls and a frontal wall, respectively, for said opening, blades extending from the side walls for insertion through the said opening between the wrapper and contents therein, wings hinged to the side walls for contact with the exterior of the wrapper, a jaw hinged to the frontal wall for contacting the wrapper and latching engagement with the wings when contacting the latter, and a swinging cover carried on the frame for closing the opening and latchable with the latter when in closing position.

**2,388,520**
**PLUNGER PACKING**
**Adrian St. John Bowie, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware**
**Application November 28, 1942, Serial No. 467,237**
**5 Claims. (Cl. 309—33)**

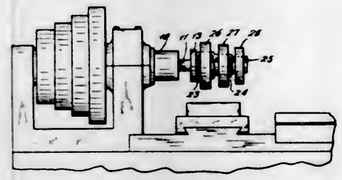
1. A pump packing comprising a semi-spheroidal cup shaped body of relatively stiff material and of substantially circular transverse section, having a resilient peripheral lip portion for contacting the wall of a cylinder, said lip portion having in its inner surface adjacent its rim a series of grooves beginning tangentially with respect to said inner surface to terminate adjacent the rim of said lip portion at sufficient depth





to leave flexible web portions at the outer surface of said lip, whereby to permit the packing to be forced into a cylinder of less diameter than itself with a minimum of distortion to its lip portion.

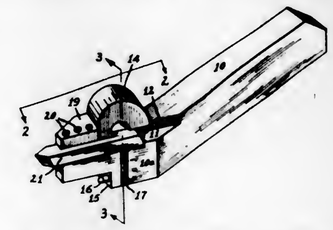
**2,388,521**
**MULTIPLE WORK SUPPORT**
**George S. Boyd, East Cleveland, Ohio**
**Application June 21, 1944, Serial No. 541,356**
**1 Claim. (Cl. 82—43)**



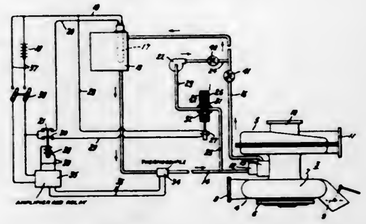
A rotatable work supporting body having a plurality of cylindrical work supports diminishing in diameter successively from one end of the body toward the opposite end thereof, the body being provided with a single angular recess extending longitudinally thereof and projecting thereinto from the external surface thereof and of such length as to provide an angular recess within each of the cylindrical work supports, the bottom of said recess being parallel to the axis of the body and spaced uniformly therefrom throughout its length, and a roller for the recess in each of the work supports, the said rollers diminishing in diameter corresponding to the diminishing in diameter of the work support and, being adapted, by relative rotation between the said body and work pieces fitted on the cylindrical work supports, to removably lock the work pieces to their respective supports.

**2,388,522**
**TOOL SUPPORT**
**George S. Boyd, East Cleveland, Ohio**
**Application August 17, 1944, Serial No. 549,949**
**7 Claims. (Cl. 29—97.5)**

1. A tool support comprising a shank having at its forward end a device for receiving and clamping a tool in place, the tool-receiving- and-clamping device comprising an integral extension of the top of the said shank having a seat formed therein for the reception of a tool, the lower portion of said device being spaced from the lower portion of the shank by an upwardly extending slot, a cushion of yieldable and compressible material in said slot and adapted to be engaged by the opposed walls of said slot, and pressure-adjusting means connecting the portions of the device and shank on opposite sides of said slot, thereby to vary the responsiveness of the cushion to fluctuations in pressure applied thereto during the operation of the tool.



**2,388,523**
**LUBRICANT HEATING SYSTEM FOR TURBO-SUPERCHARGERS AND THE LIKE**
**Joseph C. Buechel, Hollywood, Calif., assignor to General Electric Company, a corporation of New York**
**Application June 3, 1942, Serial No. 445,590**
**4 Claims. (Cl. 184—6)**

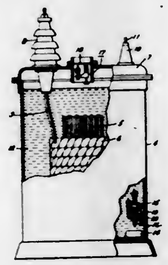


1. In combination, a turbosupercharger, a lubricant tank, pump means connected with said tank for conveying lubricant from the tank to turbosupercharger parts requiring lubrication and thence back to the tank, a second pump means in shunt to said first-named pump means for effecting circulation of lubricant from and back to the tank, a heating element in the tank, and means responsive to the temperature of the lubricant for controlling said heating element and the circulation of lubricant by said second pump means.

**2,388,524**
**APPARATUS FOR ABSORBING DECOMPOSITION PRODUCTS**
**Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application June 12, 1943, Serial No. 490,622**
**4 Claims. (Cl. 175—361)**

1. An electric transformer comprising a sealed tank, inductively related windings therein, a quantity of liquid halogenated hydrocarbon enveloping said windings, a submerged sealed receptacle in said tank containing a liquid fixative which is capable of combining with gaseous halogen-containing decomposition products, and

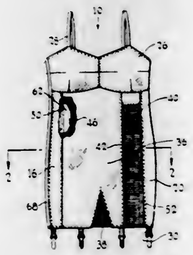
trigger-controlled means for breaking said receptacle to release the contents of said receptacle



responsive to an abnormal pressure in said tank by the disengagement of gaseous decomposition products in said sealed tank.

---

**2,388,525**
**FORM CONSTRICTING AND MOLDING GARMENT**
**Frank A. Cohen, Brooklyn, N. Y.**
**Application July 23, 1943, Serial No. 495,811**
**12 Claims. (Cl. 2—37)**



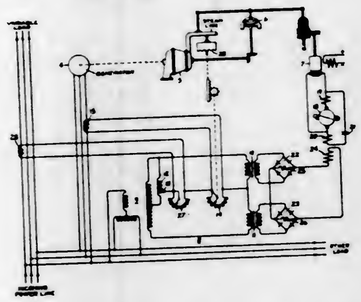
1. A form constricting and molding garment of the character described comprising a body encircling sheath having a control panel which includes an outer layer and an inner layer of equal widths and shapes superimposed on one another, the side edges of the layers along their entire length being registered and attached to each other, one of said layers having a vertically extending area of flexible elastic material adjacent one side edge of the panel, and the other of said layers having a vertically extending area of flexible elastic material adjacent the other side edge of the panel, said elastic areas being of equal widths, the remaining portions of each layer comprising a vertically extending area of flexible inelastic material which constitutes a major part of the layer whereby the elastic area in the outer layer overlies the inelastic area in the inner layer and the elastic area in the inner layer underlies the inelastic area in the outer layer and friction immediately opposes opposite movement of the curved superimposed contacting layers.

**2,388,526**
**METHOD OF PREPARING A COATING COMPOSITION**
**William L. Craig, Westport, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application December 11, 1941, Serial No. 422,522**
**3 Claims. (Cl. 106—214)**

2. The method of preparing coating compositions which comprises forming an aqueous suspension of a material from the group consisting of minerals and pigments, incorporating a raw starch therein and subjecting the resulting mixture to the action of a liquefying enzyme.

---

**2,388,527**
**ELECTRORESPONSIVE SYSTEM**
**Frederick E. Crever, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 13, 1944, Serial No. 544,780**
**19 Claims. (Cl. 290—4)**



12. In combination, a pair of load circuits, a common main supply circuit for both of said load circuits, said load circuits being connected in multiple to said supply circuit, an auxiliary power supply generator connected to one of said circuits, an elastic fluid turbine for driving said auxiliary generator, means responsive to the power output of said generator for regulating said turbine so that said generator normally supplies a constant base value of power, means responsive to the load on one of said load circuits for so modifying the action of the regulating means for said turbine that said generator carries a predetermined percentage of said load, and means for varying said base power and predetermined percentage in proportion to a characteristic of the elastic fluid supplied to said turbine.

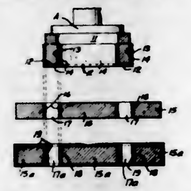
---

**2,388,528**
**DIE AND METHOD OF MAKING SAME**
**John S. Curtiss, Jr., Belmont, Calif.**
**Application April 7, 1944, Serial No. 529,985**
**7 Claims. (Cl. 76—107)**

1. A method of making die members comprising the steps of shaping a first die member to an oversize of a finally desired configuration of effective die face, forming a second complementary die member by relative contact between the said oversize first die member and the second die member, removing a layer of material from the effective die face of the said first die member to reduce the oversize of said effective die face to a finally desired configuration of said die, and adding to



the effective die face of the said second die a layer of material of a thickness such as to provide



a desired predetermined clearance between the effective working faces of the respective die members.

---

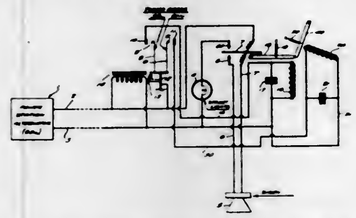
**2,388,529**
**DERIVATIVES OF AMINOBENZENE-SULPHONAMIDES**
**Gaetano F. D'Alelio and James J. Pyle, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York**
**No Drawing. Application June 7, 1943, Serial No. 489,954**
**11 Claims. (Cl. 260—397.7)**

1. A cyanoaminobenzenesulphonamide.

5. The method of preparing a cyanoaminobenzenesulphonamide which comprises effecting reaction in the presence of a hydrohalide acceptor between an aminobenzenesulphonamide and cyanogen chloride, and isolating the resulting cyanoaminobenzenesulphonamide from the reaction mass.

---

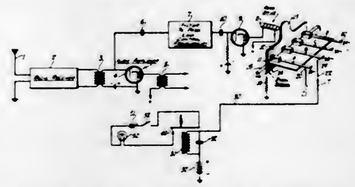
**2,388,530**
**POWER LINE SIGNALING SYSTEM**
**Harmon B. Deal, Glen Ridge, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application April 1, 1942, Serial No. 437,178**
**1 Claim. (Cl. 177—352)**



In an alternating current supply system having a current distribution line provided with at least two separate devices to be energized by the current, switch means for normally connecting one device to said line for energization thereof, magnetic means for locking said switch means in its normal connection condition, a first electromagnet for controlling said magnetic means, a first frequency-responsive means, sharply tuned to a frequency differing by a relatively small value from the normal current frequency, for energizing said electromagnet with said current for rendering said locking means ineffective in response to a shift in said current frequency to said different frequency thereby to disconnect said switch means, a second electromagnet, the said switch means including a magnetic portion, a second frequency-responsive means, sharply tuned to a frequency differing from said normal current frequency by said small value but in the opposite sense, for energizing said second electromagnet in response to a shift in said current frequency to said opposite different frequency whereby said second electromagnet attracts said magnetic portion for restoring said switch means to its normal connection condition, said first electromagnet being de-energized in response to said second electromagnet becoming energized thereby simultaneously permitting said locking means to become effective, and means electrically connecting said switch means to the second device of said two devices in response to the switch means being in said unlocked and disconnected condition, said first device being a source of illumination, and said second device being a siren.

---

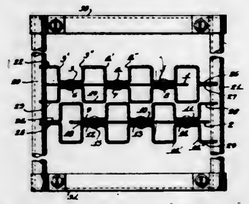
**2,388,531**
**LOW-FREQUENCY SIGNALING**
**Harmon B. Deal, Glen Ridge, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 5, 1942, Serial No. 467,935**
**1 Claim. (Cl. 177—353)**



In a reed signaling system, a plurality of reeds of different frequencies, a common magnetic support for said reeds, said magnetic support having an extension, a source of currents of frequencies corresponding to said reed frequencies, an electromagnet responsive to the currents for actuating said support extension thereby to vibrate solely those reeds corresponding in frequency to the frequencies of the said currents, an indicator circuit including a normally open switch, a control circuit for the switch including an electromagnet positioned adjacent the normally open switch to actuate the latter upon energization of the control circuit, and switch means for selectively associating desired ones of said reeds to act as a control circuit-closing device.

---

**2,388,532**
**BLOCKING LAYER CELL**
**Cornelis de Lange and Charles Louis Boucher, Eindhoven, Netherlands; vested in the Alien Property Custodian**
**Application May 29, 1941, Serial No. 395,875**
**In the Netherlands June 29, 1940**
**5 Claims. (Cl. 175—366)**

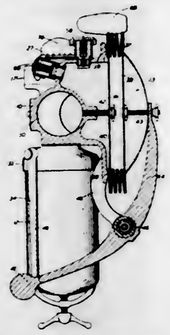


1. A blocking-layer rectifier assembly comprising a plurality of rectifier units, each of said units

comprising a rectifier cell having a large surface, a cooling plate member having a plurality of surface portions in contact with said large surface at interspaced points, and a plurality of members each rigidly securing the cooling plate to said rectifier cell at one of said interspaced points, said units being spaced from each other by a supporting beam engaging the cooling plates thereof.

---

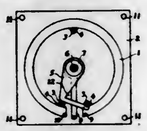
**2,388,533**
**ADMINISTRATION OF INHALANT GASES**
**William Edmondson and Wilfred Jones, Surrey County, England, assignors to The British Oxygen Company Limited, London, England, a British company**
**Application November 14, 1942, Serial No. 465,536**
**In Great Britain November 17, 1941**
**5 Claims. (Cl. 128—202)**



1. Apparatus for the administration of inhalant gases including a valve-casing, a re-breathing reservoir mounted on said valve-casing, said valve-casing constituting a part of the wall of the re-breathing reservoir, the remainder of the reservoir wall being at least in part expansible, and an absorption unit having inlet and outlet ports mounted on said valve-casing independently of said re-breathing reservoir, said absorption unit being traversible by said gases on passing into said re-breathing reservoir during exhalation and again traversible by said gases on passing out of said re-breathing reservoir during inhalation and said valve mechanism being operable to control the proportion of gases traversing the absorption unit on passing into and out of the re-breathing reservoir.

---

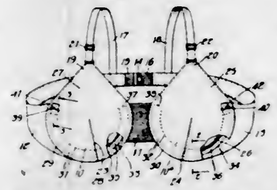
**2,388,534**
**POTENTIOMETER**
**Radford K. Frazier, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application June 4, 1942, Serial No. 445,742**
**11 Claims. (Cl. 178—44)**



6. In an alternating current system, a source of periodic electrical energy, an impedance element connected across said source and forming a loop circuit therewith, a load impedance, means adjustably and galvanically connecting said load impedance to said first impedance element, whereby a second loop circuit is formed by said load impedance and the connecting means associated therewith, said second loop circuit inherently being magnetically coupled to said first loop circuit, and means for introducing magnetic coupling opposing said inherent coupling between said first loop circuit and said second loop circuit.

---

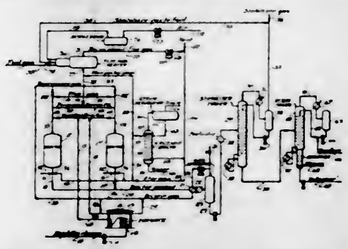
**2,388,535**
**BRASSIÈRE**
**Harry Gluckin, New York, N. Y.**
**Application February 9, 1945, Serial No. 577,030**
**4 Claims. (Cl. 2—42)**



1. A brassière comprising breast pockets, means supporting said pockets upon the body of a wearer, each of said pockets comprising inner and outer facings, means forming between said facings substantially semi-circular channels bordering lower and side edges of each pocket, means closing one end of the channel of each pocket, the other end of the channel of each pocket having an opening inwardly of said end thereof, a substantially firm semi-circular brace member arranged in the channel of each pocket, and said members being attachable and detachable with respect to the channels through said openings.

---

**2,388,536**
**CATALYTIC REFORMING**
**Robert C. Gunness, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application July 26, 1940, Serial No. 347,810**
**5 Claims. (Cl. 196—50)**



1. In a catalyst conversion system which is provided with a plurality of catalytic reactors which are alternately on stream and undergoing catalyst regeneration and which is provided with a flue gas heater for regulating the temperature and composition of flue gases, a waste heat boiler for absorbing heat from regeneration gases and a blower for recirculating regeneration gases to said flue gas heater, the method of continuously recycling flue gas from said flue gas heater through said waste heat boiler and for maintaining a substantially constant temperature of flue gases charged to said blower which method comprises passing flue gas from said heater through a reactor containing catalyst undergoing regeneration, passing a part of the gases from said reactor through said waste heat boiler, by-passing said waste heat boiler with another part of the gases from said reactor, admixing gas from said waste heat boiler with by-passed gas and passing the major portion of said gas to said blower, venting a minor portion of said gas from the system between said waste heat boiler and said blower, passing gases from said blower to said flue gas heater and regulating the proportion of gases passing from the reactor through the waste heat boiler and around the waste heat boiler respectively to maintain a substantially constant temperature of the gases charged to said blower.



---

**2,388,537**
**METHOD OF MAKING SPRINGS**
**Charles A. Hallstrom and Raymond E. Tibbetts, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
**Application March 20, 1942, Serial No. 435,588**
**3 Claims. (Cl. 29—173)**

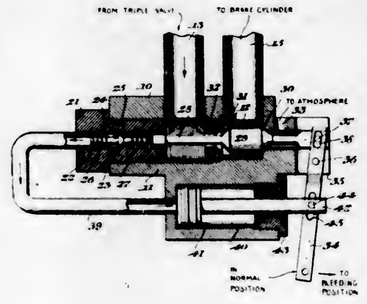


1. In the manfacture of springs, the method which comprises providing a piece of spring-tempered metal strip, subjecting a predetermined end-length thereof to treatment effective to gradually vary the hardness of successive portions of said end-length within predetermined limits, cold forming said end-length by coiling it upon itself about an arbor of relatively small diameter in the center of the spring, and thereafter coiling said end-length and the major portion of the remainder of said strip upon itself about an arbor of relatively larger diameter in the center of the spring, whereby there is produced a spring devoid of dead inactive coils at the center.

---

**2,388,538**
**BRAKE RELEASE VALVE**
**Obie E. Hamrick, Erie, Pa.**
**Application July 13, 1944, Serial No. 544,764**
**4 Claims. (Cl. 303—68)**

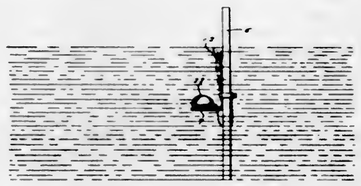
1. A selective fluid pressure bleeding mechanism comprising, a casing, an inlet port arranged for communication with a storage tank for fluid under pressure, an outlet port arranged for communication with an operating tank for using fluid under pressure, a bleeding port arranged for communication with the atmosphere, a valve in operating relation to said ports, spring means normally urging said valve into its closed position, manually operated release means arranged to move said valve into its open position, and a piston in operating relation with said valve and said manually operated release means, said piston being arranged to be actuated in response to pressure in said inlet port, and against said spring means, whereby said piston will actuate




said release means to close and retain said valve in closed position without materially reducing the pressure in said storage tank.

---

**2,388,539**
**TRAP STAND**
**William Franklin Hartman, Storm Lake, Iowa**
**Application May 11, 1944, Serial No. 535,141**
**1 Claim. (Cl. 43—96)**



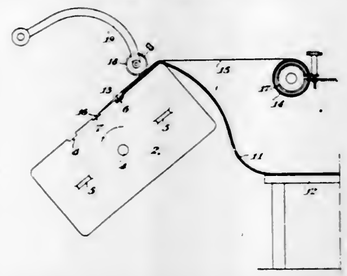
A trap support comprising an upright, a shelf on the upright, jaw means on the shelf for holding a trap, said shelf being provided with an upright adjustably secured to the first-mentioned upright, and a bait holder on the adjustable upright.

---

**2,388,540**
**METHOD OF TREATING ALUMINUM ALLOY RIVETS AND PRODUCT**
**Ernest C. Hartmann, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application December 30, 1943, Serial No. 516,186**
**8 Claims. (Cl. 148—21.1)**

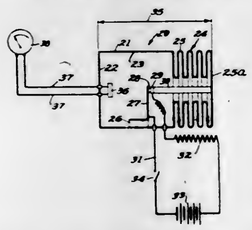
1. A method of hardening solution heat treated and quenched undriven rivets of an aluminum base alloy containing more than 3 per cent copper and from 0.1 to 2.5 per cent magnesium, whereby head cracks are substantially eliminated when the rivets are driven at room temperature, said method comprising heating the solution heat treated and quenched rivets at a temperature between about 375 and 450° F. for 1 to 12 hours to harden them and cooling to room temperature prior to driving them.

2,388,541
**METHOD OF MANUFACTURING LAMINATED ARTICLES FROM VENEER OR LIKE SHEET MATERIAL**
**James Henderson, Kinghorn, Fife, Scotland**
Application November 27, 1943, Serial No. 511,992
In Great Britain December 2, 1942
5 Claims. (Cl. 144—309)



1. A method of manufacturing cabinets, boxes, wardrobes and the like consisting in winding disunited layers of veneer or the like treated with an adhesive upon a rotating former and subjecting them to roller pressure as they are tensioned about the rotating former simultaneously with the tensioned wrapping upon the layers of veneer or the like of a bandage of soft flexible material, maintaining the tensional wrapping action of the bandage subsequent to the complete bandaging of the work and supplementing the pressure due to such tensional wrapping by pressure applied to substantially the whole of the bandaged layers.

2,388,542
**PRESSURE MEASURING DEVICE**
**Walter V. Hobbs, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio**
Application May 15, 1944, Serial No. 535,655
7 Claims. (Cl. 73—410)

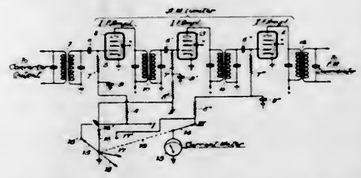


3. Pressure measuring mechanism comprising in combination, a cell having a stationary wall and bellows means hermetically joined thereto; fluid means disposed in said cell, said fluid being expansible under the influence of heat; a contact carried by said stationary wall; a complemental contact mounted on said bellows means, said contact engaging and separating in response to movement of said bellows; electrical heating means adjacent said cell, said heating means having a circuit including a source of electrical energy and said contacts; and means for measuring the temperature within said cell.

2,388,543
**PROCESS OF PREPARING PLASTER CASTS**
**Gilbert A. Hoggatt, Snyder, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a corporation of Maryland**
No Drawing. Application April 2, 1942, Serial No. 437,413
7 Claims. (Cl. 106—114)

1. Process of preparing casts of gypsum plaster which comprises gaging with water a mixture of raw starch and gypsum plaster to form a mortar or slurry, said gypsum plaster being in predominant amount to constitute the main settable ingredient of said mixture, the amount of the raw starch being substantially in the range between ¼% and 25% based on the sum of the weights of the gypsum plaster and the raw starch, continuing the mixing operation until the dry materials are thoroughly wetted by the water but not substantially beyond the point where stiffening starts, allowing the mixture to set to form a cast, and heating said cast to the temperature for gelatinizing the starch in the presence of moisture to prevent drying thereof which would interfere with the gelatinization.

2,388,544
**FREQUENCY MODULATION RECEIVER INTENSITY INDICATOR**
**Paul F. G. Holst and Loren R. Kirkwood, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
Application December 2, 1941, Serial No. 421,286
1 Claim. (Cl. 250—20)



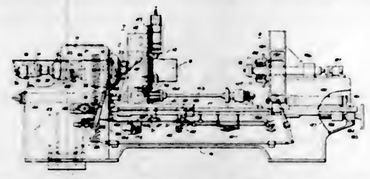
In combination with a source of frequency modulated carrier waves, a plurality of amplifier tubes arranged in cascade, each of said amplifier tubes including a grid condenser-leak resistor network for providing limiting therein, a current indication means, a first means for selectively connecting said current indication means to a desired one of said grid leak resistors thereby to indicate grid current flow therethrough, a second means connecting the grid leak resistors of the remaining amplifier tubes to a point of relatively fixed potential thereby to prevent grid current flow in said remaining amplifier tubes from affecting said current indication device and a common actuating means for concurrently operating said first and second means.

2,388,545
**APPARATUS FOR SPINNING TUBULAR ARTICLES**
**Gustave J. Horak, Penn Run, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
Application July 25, 1940, Serial No. 347,418
20 Claims. (Cl. 113—53)

1. In a metal spinning machine, the combination with a spinning tool, of means for imparting feeding movements thereto in directions extending lengthwise of the wall of a blank to be acted upon thereby, and operating mechanism movable

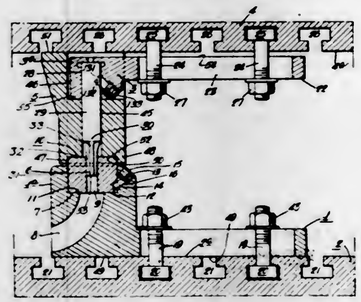


lengthwise with the tool for imparting feeding movements thereto at will in directions extending crosswise of said wall, said mechanism comprising fluid pressure actuated means for moving the tool, valve means for controlling the operation of said pressure actuated means, a movable control member associated with said valve means and selectively operable in opposite direc-



tions from a neutral position with respect thereto for effecting fluid flow through said valve means and actuation of said pressure actuating means in a corresponding direction, and means movable in unison with said pressure actuated means for moving said valve means in the direction of movement of said member until fluid flow is interrupted.

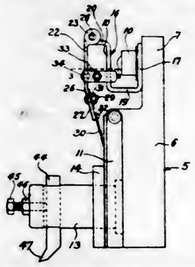
2,388,546
**PUNCH AND DIE SETTING**
**Arthur C. Jackson, Swarthmore, Pa., assignor to L. V. Whistler, Kenmore, N. Y.**
Application June 10, 1944, Serial No. 539,732
7 Claims. (Cl. 164—124)



1. A punch-setting tool comprising a sleeve having an axial bore for directly slidably supporting a punch for axial movement therein, and a pair of flat parallel relatively spaced surfaces disposed in planes at right angles to the axis of said bore at opposite ends respectively of said tool, said flat surfaces being adapted for simultaneous engagement with a pair of flat parallel surfaces spaced apart and relatively movable perpendicularly to their respective planes in a die press.

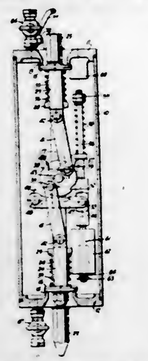
2,388,547
**SHAPER TOOL POST HOLD-DOWN**
**Francis Johnson, Detroit, Mich.**
Application April 1, 1943, Serial No. 481,449
15 Claims. (Cl. 90—54)

1. A tool post hold-down for shaper machines comprising a bracket adapted to be attached to the reciprocating head of said machine, spring means carried by the bracket engaging the tool post support to yieldingly urge the tool post in a downward direction and means for rendering said spring means inoperative, said last-named means consisting of a quickly detachable member carried by the spring means for holding said



spring means in a fixed position relative to said bracket.

2,388,548
**LIQUID SAMPLING DEVICE**
**Albert E. Jurs, Jr., Berkeley, Calif., assignor to Shand and Jurs Company, a partnership**
Application August 4, 1943, Serial No. 497,323
7 Claims. (Cl. 137—18)



1. In liquid sampling devices of the type adapted to be lowered into a body of liquid, a shell having upper and lower end walls, a valve seat formed on one of the end walls, a movable valve member cooperating with the valve seat, means serving to carry the valve member for movement between open and closed position, spring means for urging the valve member towards closed position, latch means within the shell for retaining the valve member in open position, and means including a weight movably mounted within the shell for disengaging said latch means by hammerblow action, upon abruptly arresting downward movement of the device, said weight being separate from and movable relative to the valve member.

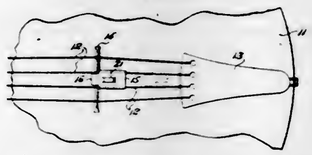
2,388,549
**HIGH TEMPERATURE INSULATING SHAPE AND METHOD OF MANUFACTURE**
**Henry A. Kieselbach, Montclair, and Earl R. Williams, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
No Drawing. Application December 15, 1942, Serial No. 469,122
3 Claims. (Cl. 92—54)

1. A method of manufacturing a heat insulation block adapted for use at elevated tempera-

tures comprising, forming an aqueous slurry of 4½–7½% solids concentration consisting of 35–78% dry weight of finely divided diatomaceous silica, 10–50% finely divided normal magnesium carbonate and minor proportions of bentonite and asbestos fibers, introducing a charge of the slurry under pressure into a filtering mold, partially dewatering and shaping the charge while completing the charging operation, and curing the block while confined within the mold by circulating an aqueous heating fluid under low pressure in direct contact with the mold walls and mold charge to convert the normal magnesium carbonate to basic magnesium carbonate.

---

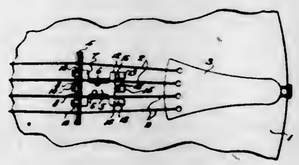
**2,388,550**
**MUTE FOR STRINGED MUSICAL INSTRUMENTS**
**Russell B. Kingman, Orange, N. J.**
**Application November 22, 1943, Serial No. 511,210**
**4 Claims. (Cl. 84—311)**



1. A mute for a stringed instrument having a bridge by which its strings are supported comprising, a unitary block-like main body having endwise open longitudinal channels in opposite sides thereof to receive strings straddled thereby so as to slidably mount the body on said strings behind the bridge, said body having a cuneate bottom formation to facilitate its downward passage between said strings for application thereto, and a thrust tongue projecting longitudinally from the forward end of said body, said thrust tongue having an inwardly, downwardly and shallowly inclined underside adapted to ride onto the top edge of the bridge when said body is forwardly moved on said strings to abut the bridge with muting effect, whereby to produce sufficient downthrusting tension in the engaged strings to frictionally retain said body against displacement from its muting relation to the bridge.

---

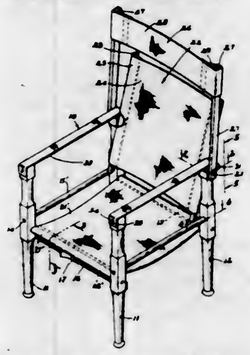
**2,388,551**
**STRINGED INSTRUMENT MUTE**
**Russell B. Kingman, Orange, N. J.**
**Application December 15, 1943, Serial No. 514,315**
**4 Claims. (Cl. 84—311)**



1. A mute for a stringed instrument having a bridge by which its strings are supported comprising a one-piece body of rigidulous sheet material having inturned flanges along side portions thereof to form channels to receive strings straddled thereby so as to slidably mount the body on said strings behind the bridge, muting means extending downwardly from the forward end of said body adapted to be brought into abutment against the back face of the bridge at a point below the string supporting top edge thereof and means inclining forwardly and upwardly from the forward end of the body adapted to yieldably engage over the top edge of the bridge to releaseably retain the body and its muting abutment means in muting relation to the bridge.

---

**2,388,552**
**COLLAPSIBLE CHAIR**
**Clem H. Korte, La Canada, Calif.**
**Application January 7, 1944, Serial No. 517,443**
**1 Claim. (Cl. 155—196)**



A chair including a pair of front legs and a pair of rear legs, side bars connecting the front and rear legs, a front round connecting the front legs, a rear round connecting the rear legs, a seat secured to the front and rear rounds, a back member, said back member comprising a pair of side strips and a back connecting said side strips, the upper portion of each rear leg having an aperture therethrough, said apertures being aligned, a removable pivot pin arranged in each aperture, said back member side strips being arranged between the rear legs and each having an aperture near the middle thereof receiving the adjacent pivot pin, a head rest, said head rest comprising side rails and a strip connecting the upper ends of said side rails, said head rest side rails being arranged outside of the rear legs and having apertures in their lower ends receiving said pivot pins, the inner ends of each pivot pin having a head engaging the inner face of the adjacent back member side strip, the outer end of each pivot pin being threaded and having a wing nut thereon, each wing nut releasably engaging the adjacent head rest side rail, whereby the relative position of the back member and head rest may be adjusted, a head rest stop member secured to each rear leg and extending outwardly from each rear leg, each stop member including a portion in the path of movement of the head rest side rail.

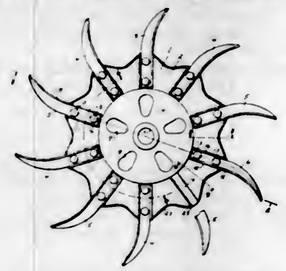
---

**2,388,553**
**WHEEL HOE**
**Raymond M. Kraus, Cleveland, Ohio, assignor to The Dunham Company, Berea, Ohio, a corporation of Ohio**
**Application August 12, 1942, Serial No. 454,513**
**12 Claims. (Cl. 97—212)**

1. In an agricultural tool of the rotary toothed wheel type, a one piece body of cast metal com-

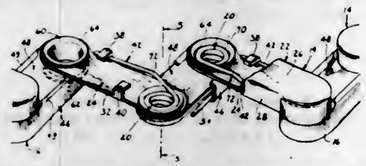


prising a disc-like portion and a central hollow walled hub portion, axially aligned spaced-apart bearings on the hub portion, the walled hub portion having wall openings, between the bearings, the disc-like portion having opposite faces and one face being provided with a circular series of tooth-supporting surfaces at different elevations alternately around the series, a plurality of teeth all secured upon said one face and upon the said tooth-supporting surfaces and extending outwardly in directions away from the axis and alternately staggered by said disposition of the tooth-supporting surfaces, the teeth having body portions of I-section and ground-working portions of T-section, and means to rigidly secure the teeth body portions to the disc-like portion comprising ribs on the tooth-supporting surfaces meshed with the longitudinal recesses in the teeth provided by the I-section thereof, and rivets or the like projected through aligned perforations in the teeth and in the disc-like portion.



---

**2,388,554**
**EXPANSION BAND**
**Leslie Kreisler, New York, N. Y., and John G. Siska, Cresskill, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation of New Jersey**
**Application June 17, 1944, Serial No. 540,846**
**7 Claims. (Cl. 59—79)**

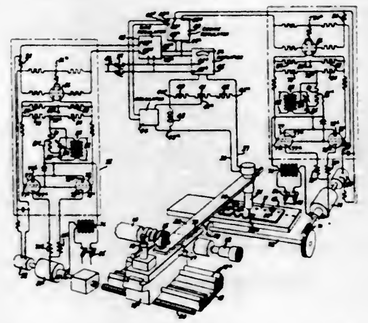


7. In an expansible band or bracelet comprising top and bottom links pivotally connected to each other only at their ends, the adjacent top and bottom links being in overlapping relation at their pivotally connected ends; spring means disposed within said links and resiliently pressing said top and bottom links toward each other in the direction of the thickness of the band.

---

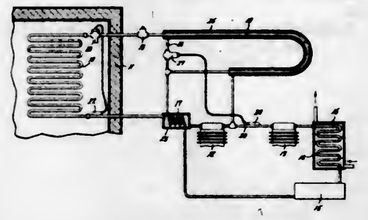
**2,388,555**
**AUTOMATIC PATTERN CONTROLLED MACHINE TOOL**
**Hans P. Kuehni and Norman G. Branson, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application May 7, 1943, Serial No. 486,046**
**16 Claims. (Cl. 90—13.5)**

1. A contouring control system for a pattern controlled machine tool having a cutter comprising in combination, a tracer control element, means for supporting a pattern and a work piece in operative relationship respectively with said tracer and cutter, driving means for effecting relative movement of said cutter and work piece, means responsive to the force between said pattern and tracer for producing a variable direct voltage, means for deriving from said voltage a pair of control voltages that vary as the sine and cosine functions of said force and means responsive to said control voltages for controlling said driving means to effect said relative movement of said cutter and work piece with a velocity having angularly displaced components that vary approximately as sine and cosine functions of said force.



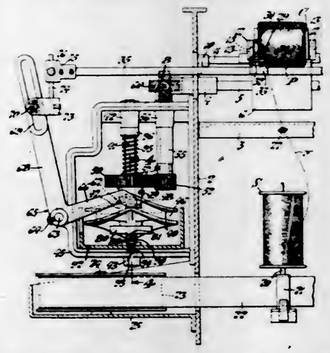
---

**2,388,556**
**REFRIGERATING SYSTEM**
**Harold F. Lathrop, Grabill, Ind., assignor to General Electric Company, a corporation of New York**
**Application February 8, 1944, Serial No. 521,518**
**6 Claims. (Cl. 62—115)**



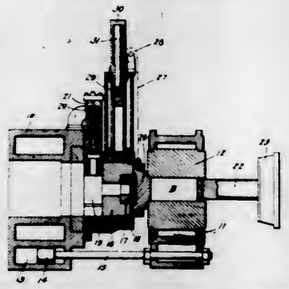
1. A multi-stage refrigerating system comprising high and low pressure compressors, an evaporator and a condenser, an interstage connection for conveying refrigerant from the outlet of said low pressure compressor to the inlet of said high pressure compressor, means for conducting liquefied refrigerant from said condenser to said evaporator, means for removing a portion of the refrigerant from said last mentioned means and for returning it to said interstage connection, and means dependent solely upon the temperature of the refrigerant at the inlet of said high pressure compressor for controlling the quantity of refrigerant admitted to said interstage connection.

2,388,557
**MEANS FOR WINDING TEXTILE PACKAGES**
**Royal Little, Providence, and Leroy Jehu, Cranston, R. I., assignors to Textron Incorporated, a corporation of Rhode Island**
**Application September 21, 1943, Serial No. 503,214**
**10 Claims. (Cl. 242—43)**



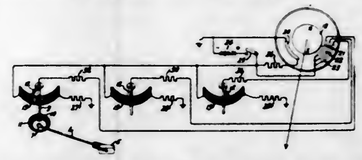
1. An improved traversing means for winding machines comprising a helical cam adapted for axial movement, means for rotating said cam, yarn-traversing means reciprocable by said cam, a secondary cam rotatable in synchrony with the main cam, a stationary element engaging the secondary cam, means between said stationary element and said secondary cam to shift the main cam axially in one direction while adapting it to move alternately in the opposite direction during short intervals of its rotation at points only at the limits of throw of said main cam.

2,388,558
**METAL EXTRUSION PRESS AND METHOD OF OPERATING SAME**
**Ludwig Loewy, Bournemouth, England, assignor to The Loewy Engineering Company Limited, London, England, a corporation of Great Britain**
**Application July 9, 1941, Serial No. 401,579**
**In Great Britain May 9, 1941**
**9 Claims. (Cl. 207—2)**



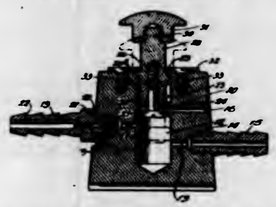
1. A metal extrusion press, comprising in combination a billet-container having a straight-through bore, an apertured die, adapted to be located at the end of this bore so as to give cross-sectional form to the extruded stock, a closure member, adapted to obturate the passage through the die-aperture, means for moving said container away from said die so as to make room for the insertion of said closure member between said container and said die and means for effecting and maintaining a sealing contact between said container and said closure member and said container and said die.

2,388,559
**TOTALIZING LIQUID LEVEL INDICATOR**
**John R. Macintyre, South Peabody, Mass., assignor to General Electric Company, a corporation of New York**
**Application August 28, 1944, Serial No. 551,606**
**3 Claims. (Cl. 73—313)**



1. In combination with a plurality of tanks for containing liquid, which tanks may be of different capacity, different shape, and at different levels, a system for totalizing the liquid content of such tanks comprising a float operated electric current varying transmitter in each tank, a source of supply, an electrical measuring instrument of the ratio type having a winding energized in response to the voltage of said source and a winding formed of a plurality of coils, there being a coil associated with each electrical transmitter energized from said source in response to the current variation produced by such corresponding transmitter, said instrument measuring the ratio of ampere turns in the two windings, each of said float operated electrical transmitters producing a current variation in its respective instrument coil which varies in proportion to the gallons of liquid contained in the corresponding tank, the proportionality relation between such current variation and tank gallons being similar and substantially linear for all tanks and the current in each coil being a minimum when its corresponding tank is empty.

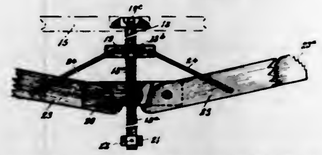
2,388,560
**CONTROL VALVE**
**Theodore E. Mead, Wilmette, Ill.**
**Application May 8, 1942, Serial No. 442,150**
**5 Claims. (Cl. 251—76)**



2. In a control valve structure of the character set forth, a casing providing a vertical valve chamber open at its top and closed at its bottom, a stem mounted within said chamber and guided for vertical movement, flexible valve means engaging the wall of said chamber and carried by said stem, a plate secured to said casing and having an opening therein adapted to receive a reduced portion of said valve stem, said plate thus limiting the upward movement of said valve stem, a fluid inlet passage communicating with the lower portion of said chamber, a fluid exhaust passage communicating with the upper portion of said chamber, and a fluid outlet passage in a plane lying between said passages and adapted to lead fluid to or from a work cylinder, said valve means extending across said chamber in sealing relation therewith and being movable in the chamber from a lower position wherein the valve means is disposed below the pressure outlet and above the inlet passage whereby the exhaust and outlet passages are in communication and to an upper position wherein said valve means is disposed above the outlet passage and extends below the exhaust passage whereby the inlet and outlet passages are in communication.



2,388,561
**MANHOLE COVER LOCK**
**John J. Morris, Tuckahoe, and William C. Stohldreier, Bronxville, N. Y.**
**Application June 6, 1942, Serial No. 446,018**
**7 Claims. (Cl. 292—6)**



1. A device of the character specified comprising a manhole frame, a cover for closing the same, and locking means for securing said cover in position within said frame, said locking means comprising a revoluble vertical support suspended from said cover, a revoluble member mounted in fixed position on said support, a bearing mounted on said support below said fixed member and movable upon said support longitudinally thereof, a plurality of locking arms each pivotally secured at its inner end to said movable bearing, and link members each pivotally secured at its inner end to said fixed bearing and its other end pivotally secured to one of said locking arms adjacent the inner pivoted end thereof, said vertical support, when rotated, serving to actuate said movable bearing to move the free outer ends of said locking arms into and out of locking engagement with the inner surface of said manhole frame.

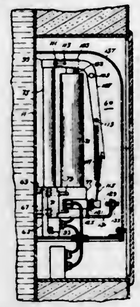
2,388,562
**PRESERVING RUBBER**
**Arthur M. Neal and John R. Vincent, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application July 30, 1943,**
**Serial No. 496,764**
**20 Claims. (Cl. 260—809)**

1. The method of inhibiting the deterioration of a rubber at elevated temperatures in the presence of oxygen which comprises incorporating in the rubber a mixture containing about 25% to about 2.5% of a compound of the formula A—$CH_2$—R' wherein A represents a secondary amino group in which the free valence belongs to the amino nitrogen and R' represents an aromatic group having from 1 to 2 members of the group consisting of oxy and amino radicals substituted on the aromatic ring attached to the $CH_2$, which compound is devoid of strongly negative groups of the character of —COOH, —$SO_3H$ and —$NO_2$ groups, and about 75% to about 97.5% of a different secondary diaromatic amine devoid of strongly negative groups of the character of —COOH, —$SO_3H$ and —$NO_2$ groups.

2,388,563
**THERMAL TREATMENT FOR ALUMINUM BASE ALLOYS**
**Joseph A. Nock, Jr., Tarentum, and Theodore W. Bossert, Carnegie, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application July 10, 1943,**
**Serial No. 494,244**
**10 Claims. (Cl. 148—21.1)**

1. A process for stabilizing the workability and tensile properties of age hardening type of aluminium base alloys containing magnesium and at least one of the elements copper, silicon and zinc that have been annealed and cooled under conditions that have not substantially eliminated the susceptibility of said alloys to age hardening, comprising heating said alloys in the annealed condition at a temperature between about 400° and 600° F. for a period of time between about ½ and 24 hours and long enough to remove substantially all tendency for the alloys to age harden.

2,388,564
**THERMAL RETARDER SWITCH UNIT**
**Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware**
**Application November 22, 1943, Serial No. 511,387**
**26 Claims. (Cl. 219—39)**

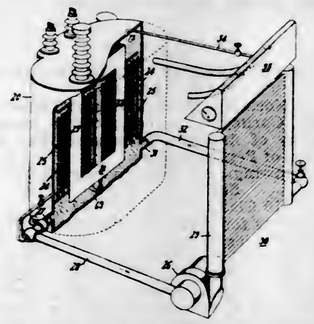


1. A thermal retarder switch unit for controlling the energization of an electric heater for a hot water tank, comprising two fixedly supported parallel-extending thermo-sensitive elements and a single switch operated by change in the relative thermal condition of the two elements, one of said elements being subject to heat exchange with water in the tank and means independent of the tank and of the position of said switch for exchanging heat with the other element.

2,388,565
**ELECTRIC APPARATUS**
**Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application May 16, 1942, Serial No. 443,310**
**16 Claims. (Cl. 175—361)**

1. In an electric induction apparatus, a winding having a plurality of axially disposed coils,

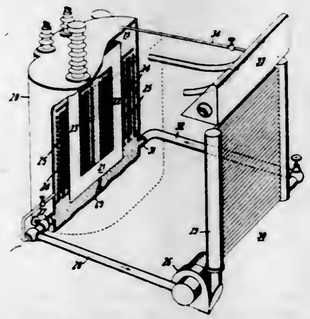
insulating means between adjacent surfaces of said axially disposed coils, each of said coils having a plurality of radially disposed turns, a casing



enclosing said coils, and means for circulating an insulating fluid over the outer axial surface of only the outer turn of each of said coils so as to conduct heat from said turns.

---

2,388,566
**ELECTRIC APPARATUS**
**Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Original application May 16, 1942, Serial No. 443,310. Divided and this application April 21, 1944, Serial No. 532,126**
**5 Claims. (Cl. 175—361)**

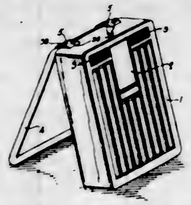


3. A transformer having relatively high and low voltage windings, a separate cooling duct associated with each winding, means for forcing cooling fluid through said ducts, and means for selectively adjusting the relative flow of cooling fluid through said ducts.

---

2,388,567
**PORTABLE RADIO RECEIVER**
**George Patterson, Jr., Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application January 28, 1943, Serial No. 473,871**
**11 Claims. (Cl. 250—14)**

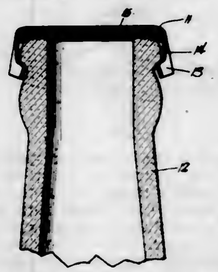
1. A portable radio receiver, comprising a housing or casing containing the receiver elements, said casing having a peripheral recess, an antenna structure hingedly attached to said casing and normally seated in said recess but being movable to various positions, and means for elec-



trically connecting the antenna to the receiver elements within the casing while permitting movement of the antenna structure.

---

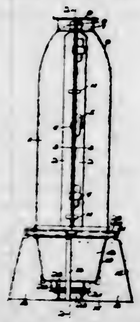
2,388,568
**SEALING COMPOSITION**
**Nicholas J. Penning, Milwaukee, Wis.**
**Application March 4, 1942, Serial No. 433,367**
**11 Claims. (Cl. 260—750)**



1. A bottle-sealing composition consisting essentially of 25 parts by weight of pale crepe rubber, and approximately 75 parts of rock maple wood flour thoroughly mixed therein; said rubber being substantially unbroken-down, and said compound having such a consistency that it will yield resiliently but will not appreciably flow under conventional bottle-sealing practices.

---

2,388,569
**MOLD FOR CONCRETE BOMBS**
**Robert P. Petersen, Philadelphia, Pa.**
**Application December 26, 1944, Serial No. 569,803**
**7 Claims. (Cl. 25—118)**



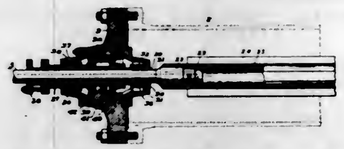
1. A mold for making concrete practice bombs comprising a plural-part substantially cylindri-



cal shell having a pouring opening at the nose, means for locking the parts of said shell in assembled relation, a base assembly supporting the mold and having an inverted conical cup to form the tapered base of the bomb, and means for locking the assembled shell to the base assembly, said cup having a central opening in its bottom to locate a core piece forming a charging recess in the base of the bomb, said base assembly comprising a support for said core piece spaced a predetermined amount below the bottom of the cup to locate the lower end of said core piece.

---

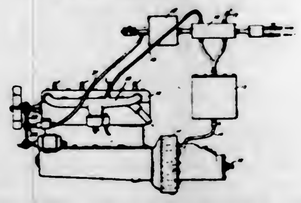
2,388,570
**SHAFT BEARING**
**George B. Phillips, Glenshaw, Pa., and James R. Tuuri, Fairport Harbor, Ohio, assignors to Blaw-Knox Company, Blawnox, Pa., a corporation of New Jersey**
**Application April 22, 1944, Serial No. 532,242**
**9 Claims. (Cl. 308—187.1)**



1. For use about a shaft within a casing where variable conditions of temperature and pressure are encountered, which variations of temperature create relative axial movement between the casing and the shaft due to thermal expansion and contraction, the invention herein described comprising a bearing structure and seal supported in the casing about the shaft comprising a sleeve element concentrically arranged about the shaft, a fluid-tight seal between the shaft and the sleeve and a second fluid-tight seal between the sleeve and the casing comprising two spaced oppositely faced sealing elements, and bearings for supporting the sleeve and shaft in the casing, said bearings being enclosed between said oppositely faced sealing elements the sleeve being keyed to the shaft for rotation therewith.

---

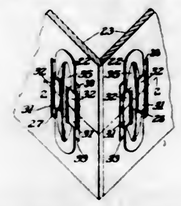
2,388,571
**HYDRAULIC COUPLING**
**Charles Popper, New York, N. Y., assignor to Automatic Turbine Drive Company, Inc., a corporation of New York**
**Application August 19, 1941, Serial No. 407,421**
**2 Claims. (Cl. 60—54)**



1. In combination, a prime mover, a hydraulic coupling of the normally closed type for transmitting power from said prime mover to a driven shaft, a tank for hydraulic fluid in free communication with said coupling for gravity feed of fluid to said coupling, means operating at low speed of said prime mover for excluding atmospheric pressure while communicating said tank with a source of sub-atmospheric pressure to thereby transfer fluid from said coupling to said tank, means operating at a still higher speed for closing said communication and opening said tank to atmosphere to thereby return fluid from said tank to said coupling, and means operating at a still higher speed for retaining said sub-atmospheric pressure communication closed and for closing said tank to atmosphere during subsequent power transmission.

---

2,388,572
**INTERLOCKING CLIP**
**Walter F. Regenhardt, Wooster, Ohio**
**Application July 19, 1944, Serial No. 545,613**
**6 Claims. (Cl. 20—92)**



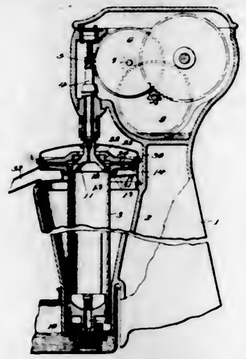
1. A fastening device for connecting two sheet-like elements provided with spaced openings comprising, in combination, body means formed for engagement with one surface of each sheet-like element, spaced offset portions formed on said body, means for reception by the openings in the sheet-like element for locating the respective positions of said elements, outwardly offset tongues formed on each of said offset portions, the ends of the tongues of an offset portion confronting one another and being spaced from one another, said offset portions each having a section spanning the both tongues thereof; and a locking strip for each of said offset portions, said locking strip being formed for slidable interposition between the tongues and spanning section of an offset portion and for overlying opposite edges of the opening on the surface of the sheet obverse to the first mentioned surface.

---

2,388,573
**APPARATUS FOR HOMOGENIZING MIXED LIQUID INGREDIENTS**
**John Cecil Rhodes, Jenkintown, Pa., assignor to The United Dairy Equipment Company, West Chester, Pa., a corporation of Pennsylvania**
**Application May 20, 1944, Serial No. 536,632**
**3 Claims. (Cl. 259—96)**

1. A homogenizer including in combination a rotary closed bowl receiving and discharging the ingredients in a continuous flow, said bowl having a discharge opening at its upper end, a disk attached to said bowl at the upper end thereof and rotating with the bowl, said disk having on its upper face a series of radial spaced concentric upwardly projecting blades terminating in sharp edges, an upper disk attached to and rotating with said bowl and having on its under face a series of radially spaced downwardly projecting concentric blades, each terminating in a sharp edge, the blades on said upper disk being disposed so as to lie between the blades on the lower disk with the end portions of the blades overlapping in a radial direction, the inner wall of each blade being inclined outwardly towards its edge, and the outer wall of each blade having a groove

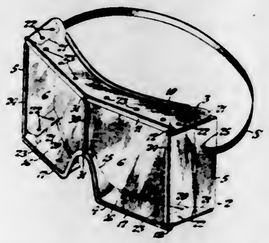
disposed adjacent the edge for causing the film to be released at the edge, the edge of each blade



being roughened so as to facilitate the rupturing of the globules passing over the same.

---

**2,388,574**
**UTILITY GOGGLE**
**Ernest Arthur Ring, West Barrington, R. I., assignor of one-half to Francis M. Blakeney, Cranston, R. I.**
**Application June 18, 1943, Serial No. 491,298**
**2 Claims. (Cl. 2—14)**

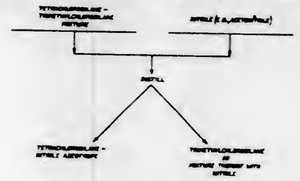


1. A goggle having a box-like frame comprising a top member, bottom member and side panels of transparent plastic material with the rearward edges thereof shaped to conform to the contour of the face and with the bottom member formed with a nose-opening, a pair of lenses having a marginal contour conforming to the shape of the opening at the front of the frame and mounted therein with their upper and lower edges engaging grooves in the top and bottom members and their inner edges abutting in a seam, and a stay extending between the top and bottom members of the frame overlying the seam between the lenses and detachably connected to the frame.

---

**2,388,575**
**RESOLUTION OF MIXTURES OF CHLOROSILANES**
**Robert O. Sauer and Charles E. Reed, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application June 23, 1943, Serial No. 491,942**
**10 Claims. (Cl. 202—42)**

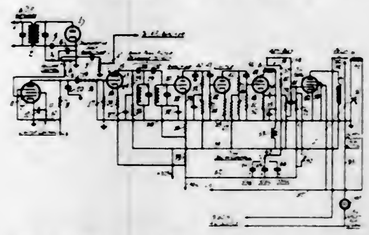
1. The process of resolving a mixture of tetrachlorosilane and trimethylchlorosilane which comprises subjecting said mixture to fractional distillation in the presence of a nitrile selected



from the group consisting of acetonitrile and acrylonitrile.

---

**2,388,576**
**RADIO SIGNALING SYSTEM**
**Stuart W. Seeley, Roslyn Heights, and John A. Rankin, Port Washington, N. Y., assignors to Radio Corporation of America, a corporation of Delaware**
**Application September 5, 1942, Serial No. 457,410**
**3 Claims. (Cl. 177—352)**



1. In a signaling system adapted to receive carrier wave energy modulated with a low frequency, a demodulator for providing energy of said low frequency, means for limiting the amplitude of the demodulated energy to prevent operation by undesired noise impulses, a band pass filter, tuned to said low frequency, connected to the limiting means, an alarm circuit, means for controlling the operation of the latter, and a highly selective device, responsive directly to the filter output low frequency energy, for rendering said controlling means effective and an adjustable time delay means connected to said selective device, said time delay means consisting of a plurality of condensers of different sizes providing a time delay range of 5 seconds to 20 seconds.

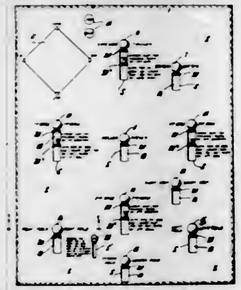
---

**2,388,577**
**BASEBALL GAME**
**George Shenker, Brooklyn, N. Y.**
**Application July 17, 1943, Serial No. 495,135**
**1 Claim. (Cl. 273—93)**

A game device simulating baseball situations depending upon base conditions and following the course of the ball from the initial fielding play from batter to any one of the nine opposing players to the responsive put-out play in the case of the three base players and the catcher, comprising, in combination, a top plate depicting a baseball diamond having nine team positions and a batter position, spinnable dials at each of the said ten positions, the dials at the four fielding positions and the pitcher position having concentric rings depicting fielding plays for the said base conditions and the dials at the four base positions having concentric rings depicting both fielding and put-out plays for the said base



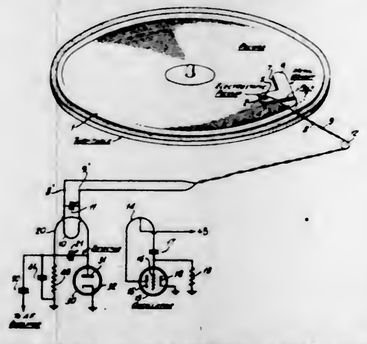
conditions, the said top plate having parallel elongated slots at the said ten positions exposing radially aligned plays at the plurality of concentric rings of the said spinnable dials, a slidable plate interposed between the said top plate and the said spinnable dials having a single slot at the said four fielding positions and the pitcher position exposing a fielding play depicted on the said fielding play concentric rings of the spinna-



ble dials at said five positions and two slots at the said four base positions, one of the said slots exposing a fielding play depicted on the fielding play concentric rings of the spinnable dials at said four positions and the other of said slots exposing a put-out play depicted on the put-out concentric rings of the said four spinnable dials, and manual means for adjusting the said slidable plate in accordance with the prevailing base condition.

---

**2,388,578**
**RECORD REPRODUCING SYSTEM**
**Chester M. Sinnett, Westmont, and Rene Snepvangers, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application January 5, 1944, Serial No. 517,010**
**9 Claims. (Cl. 179—100.4)**



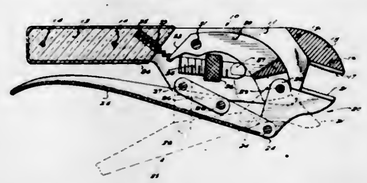
1. A method of reproducing sound records which includes generating high frequency oscillations, absorbing oscillatory energy in a resonant circuit located in the field of said oscillations, varying the frequency of the last named resonant circuit in accordance with the recorded sound waves thereby to provide amplitude modulated oscillator energy, absorbing the amplitude modulated energy from said resonant circuit in a second resonant circuit, and deriving from the second resonant circuit audio voltage corresponding to said recorded sound waves.

**2,388,579**
**PROCESS OF MAKING HETEROCYCLIC COMPOUNDS**
**Lee Irvin Smith, Minneapolis, Minn., and John A. King, Albany, N. Y., assignors to Regents of The University of Minnesota, Minneapolis, Minn., a corporation of Minnesota**
**No Drawing. Application February 29, 1944, Serial No. 524,442**
**7 Claims. (Cl. 260—346)**

3. A process of preparing 2-isopropyl-4,6,7-trimethyl-5-hydroxycoumaran which comprises reacting an alkali metal enolate of diisobutyryl methane with trimethylquinone to form the trimethylhydroquinone with the diketone residue attached to the 6 position of the ring, cyclicizing said last named material to 2-isopropyl-4,6,7-trimethyl-5-hydroxycoumarone and reducing the hydroxycoumarone to the hydroxycoumaran.

---

**2,388,580**
**WRENCH**
**Francis A. Snell, Chenango Forks, N. Y., assignor to Botnick Motor Corporation, Binghamton, N. Y., a corporation of New York**
**Application November 1, 1944, Serial No. 561,429**
**5 Claims. (Cl. 81—84)**



1. In a device of the character described, in combination, a handle having a recess therein, a jaw affixed to said handle, a second jaw, a second handle pivotally secured to said second-mentioned jaw, a link having one end pivotally secured in said recess and having its opposite end pivotally secured to said second jaw, a second link having one end pivotally secured in said recess and having its opposite end secured to said handle to form a parallel linkage, and means associated with said first link adapted to vary the relative position of its pivotal connection with said second jaw, with respect to said first jaw.

---

**2,388,581**
**MEANS FOR THE AUTOMATIC TUNING-IN OF WIRELESS RECEIVING SETS TO DESIRED BROADCASTING STATIONS**
**Giuseppe Soffietti, Torino, Italy, assignor, by direct and mesne assignments, to Leroy J. Leishman, Los Angeles, Calif.**
**Application May 18, 1938, Serial No. 208,705**
**In Luxemburg January 25, 1938**
**8 Claims. (Cl. 74—10)**

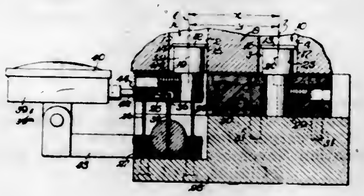


1. A device for controlling the tuning-in mechanism of a radio-receiving set having an angularly movable element, comprising a push button arranged to move in a straight line, two tappet members secured to the push button, at least one of the tappet members being adjustable in length independently of the other, and two

mobile members moving simultaneously in opposite directions and positively connected to the element the angular position of which is to be varied, the two tappet members abutting against the two mobile members respectively.

---

**2,388,582**
**METHOD OF AND APPARATUS FOR MEASURING CENTER SPACING**
**George E. Sorensen, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois**
**Application June 28, 1941, Serial No. 400,193**
**11 Claims. (Cl. 33—147)**



1. Apparatus for measuring the center spacing of two pairs of surfaces comprising, in combination, two feelers each having two sides interfitting with one pair of said surfaces, means supporting one of said feelers for movement in opposite directions transversely of said surfaces to opposite limit positions respectively determined by the adjacent and remote ones of said surfaces, means for moving said feeler to said positions and causing the same to apply substantially equal pressures in the respective positions, and an indicator responsive to the movements of said movable feeler to said opposite limit positions.

---

**2,388,583**
**CHEMICAL PROCESS AND PRODUCT**
**Alger L. Ward, Bala-Cynwyd, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application June 4, 1943, Serial No. 489,693**
**7 Claims. (Cl. 260—619)**

1. A process comprising reacting a phenol with a light oil fraction containing unsaturated hydrocarbon material boiling within the range from 150° to 167° C., said reaction taking place in the presence of a condensation catalyst, and said light oil having been obtained from products of pyrolysis of petroleum oil.

---

**2,388,584**
**CHEMICAL PROCESS AND PRODUCT**
**Alger L. Ward, Bala-Cynwyd, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application June 4, 1943, Serial No. 489,695**
**7 Claims. (Cl. 260—619)**

1. A process comprising reacting a phenol with a light oil fraction containing unsaturated hydrocarbon material boiling within the range from 183° to 200° C., said reaction taking place in the presence of a condensation catalyst, and said light oil having been obtained from products of pyrolysis of petroleum oil.

---

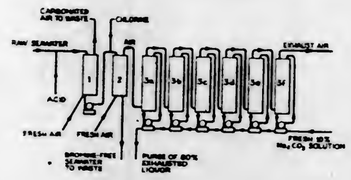
**2,388,585**
**ASH RECEIVER**
**Romie H. Weber, Aurora, Ind.**
**Application November 18, 1944, Serial No. 564,069**
**1 Claim. (Cl. 248—226)**



An attaching device for an ash receiver and comprising a pair of elongated flat upper and lower spaced apart plates, a pin connecting the plates to each other at corresponding ends of the plates and extending downwardly from the lowermost of said plates, said plates being adapted for positioning respectively above and below a flat supporting structure at the edge portion thereof, a spring-actuated clamping member slidably carried by the lower plate at the free end thereof and adapted for engaging the bottom of said supporting structure, a bracket swingably attached to the lower portion of said pin below the lower plate and adapted for securing to an ash receiver for movement thereof with the bracket and spring means carried by the pin and urging the bracket upwardly against the lower plate to secure the bracket in swingably adjusted position.

---

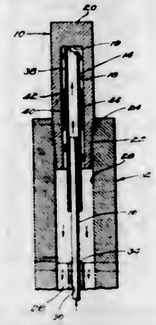
**2,388,586**
**ABSORPTION OF BROMINE**
**Arthur Tandy Williamson, Northwich, and Frank Bradley, London, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
**Application July 18, 1941, Serial No. 402,930**
**In Great Britain August 16, 1940**
**9 Claims. (Cl. 23—85)**




4. A process for the recovery of alkali bromide and bromate from aqueous salt solutions containing bromine compounds and combined carbon dioxide, which comprises acidifying the solution whereby free carbon dioxide is liberated, blowing the acidified solution with air to remove a substantial proportion of the free carbon dioxide, oxidizing the resulting solution to liberate free bromine, removing the free bromine from the solution by blowing with air and then contacting the bromine containing gas successively with each of a plurality of bodies of alkaline-reacting absorption medium, circulated into and out of contact with said gas, whereby bromine is absorbed from said gas by said absorption medium and is largely converted into bromide and bromate therein.



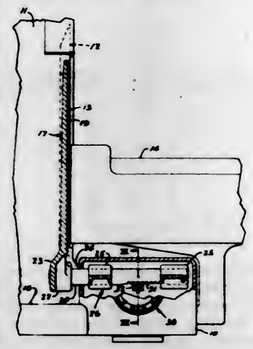
**2,388,587**
**COOLING MEANS FOR ELECTRODE TIPS**
**Thomas A. Wilson, Stratford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application July 18, 1944, Serial No. 545,424**
**12 Claims. (Cl. 219—4)**



1. A welding electrode comprising an open-ended tubular body, a hollow tip having a closed end and having its open end removably connected to the open end of said body, means for circulating a cooling fluid stream within the body and tip including an axially disposed tube fixed to said body and terminating adjacent the open end thereof and a cooperating axially disposed tube carried by said tip having one end terminating adjacent the closed end of the tip and having its other end telescoping with the tube in said body, and means for positioning said tip carried tube in the aforesaid fluid circulating position relative to said tip during removal and insertion of the latter in said electrode body.

---

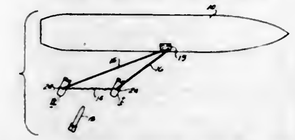
**2,388,588**
**FOOD HANDLING APPARATUS**
**George R. Wood, Montreal, Quebec, Canada, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey**
**Application April 12, 1943, Serial No. 482,766**
**6 Claims. (Cl. 146—102)**



1. In a slicing machine having a base, a rotary circular knife supported on said base and a commodity tray reciprocable past the edge of said knife, in combination, a gauge plate mounted on said base with its face substantially parallel to the plane of the edge of said knife and adjacent said knife, a support for said gauge plate extending from said base, a shaft rotatably and slidably mounted in said base and having an end extending outside of said base and bearing an indicator knob, and a driving connection between said shaft and said support for transmitting rotary motion of said knob into lateral translatory movement of said gauge plate, said driving connection being disengageable by moving said shaft longitudinally whereby said gauge plate and support can be removed from said base.

---

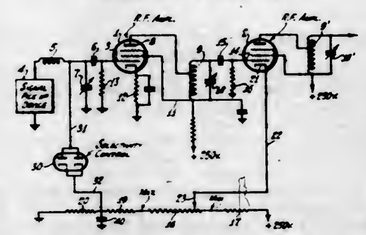
**2,388,589**
**INTERCEPTING APPARATUS**
**George V. Woodling, Rocky River, Ohio**
**Application July 27, 1942, Serial No. 452,403**
**7 Claims. (Cl. 114—240)**



1. A drive mechanism in a body of liquid comprising, in combination, a first submersible propeller-driven motor, a second submersible propeller-driven motor, means for connecting said motors together in substantially the same horizontal plane and in side-by-side relationship with respect to each other, means for buoying up said motors in said body of liquid, a third submersible propeller-driven motor suspended below said first and second motors and connected therewith, and means for individually operating said motors for directing the movement thereof, said operating means including a source of power externally of said buoying means and at a point remote therefrom and individual cables affixed to each of said motors and extending to the source of power.

---

**2,388,590**
**COMBINED VOLUME AND SELECTIVITY CONTROL DEVICE**
**Amedeo D. Zappacosta, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 29, 1942, Serial No. 448,940**
**7 Claims. (Cl. 250—20)**

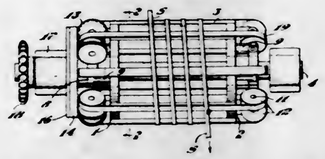


1. In a high frequency receiving system, a first amplifier tube provided with a selector circuit, a diode connected in shunt across said selector circuit, at least a second amplifier tube provided with input electrodes and output electrodes, a second selector circuit coupling the first amplifier tube to the input electrodes of the second amplifier tube, a direct current voltage energiz-

ing network common to the space current paths of said diode and second amplifier tube, and means connected to said energizing network and located in the space current path of said second amplifier tube for regulating the space current flow of said second amplifier tube between predetermined maximum and minimum values whereby the second tube amplification is varied over a relatively wide range thereby automatically to adjust the conductivity of said diode over said range.

---

**2,388,591**
**CONTINUOUS STRIP-HANDLING REEL**
**John M. Andreas, Pasadena, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine**
**Application February 16, 1944, Serial No. 522,606**
**4 Claims. (Cl. 28—71.5)**



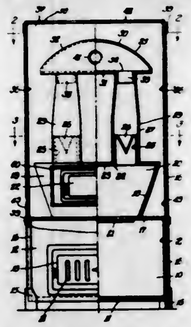
1. Cinematographic apparatus for winding film comprising a reel whose length is many times the width of the film, a plurality of endless belts movable along orbital paths extending lengthwise of the reel along the outer periphery thereof and returning inside the reel, means for rotating the reel, and means for actuating the belts in synchronism with the reel so that the belts progress lengthwise of the reel more than the width of said film during each revolution of the reel, whereby a film may be fed to and from the reel at spaced locations lengthwise of the reel, the film drifting from one location to the other along a spiral path around the reel, the spaces between said belts being unobstructed so that the film extends in straight lines from belt to belt without contacting the reel, and each stretch of belt along the outer periphery of the reel being supported by a narrow surface of the reel extending lengthwise of the reel under the belt, said surfaces being convex circumferentially of the reel and said belts being sufficiently flexible to conform to the curvature of the surfaces, whereby the edges of the belts do not damage the film.

---

**2,388,592**
**PROCESS OF MAKING LIGNO-CELLULOSE PULPS FROM STRAW**
**Arne Johan Arthur Asplund, Alsten, and Johan Wilhelm Holst, Stockholm, Sweden, assignors to Aktiebolaget Defibrator, Stockholm, Sweden, a corporation of Sweden**
**No Drawing. Application September 26, 1940, Serial No. 358,420. In Sweden March 21, 1940**
**3 Claims. (Cl. 92—6)**

3. The process of producing fibrous pulp from straw comprising impregnating the straw with from 0.5 to 3% mineral acid based on the dry weight of the straw and in an amount not greater than can be completely absorbed by the straw but sufficient to maintain a pH value of from 1 to 4, subjecting said straw to an atmosphere of steam at from 270° F. to 380° F. and at the corresponding pressure for 20 to 180 seconds, then mechanically defibrating said straw while still in the presence of said acid and said steam atmosphere.

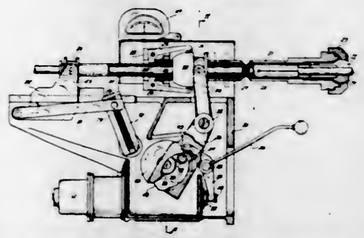
**2,388,593**
**STOVE**
**John Bilan, Flint, Mich.**
**Application June 5, 1944, Serial No. 538,778**
**1 Claim. (Cl. 126—58)**



In a stove comprising a fire box including a top wall thereof, a plurality of openings made in said top wall, a collar seated within each of said openings, flues each connecting by its lower end with one of said collars, a dome overlying the upper ends of said flues and supported thereby, said dome having a plurality of openings, and a sleeve extending and downwardly depending from the marginal edge of each of said openings, said sleeves being receivable by the upper ends of said flues: that improvement comprising inverted conical baffle members positioned within said collars, said baffle members having lateral extensions engaging the upper ends of said collars, the combustion gases being adapted to pass from said fire box into said flues through said collars and past said baffle members and into said dome through said sleeves.

---

**2,388,594**
**MACHINE TOOL**
**Fred H. Bogart, South Euclid, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio**
**Application February 21, 1942, Serial No. 431,809**
**14 Claims. (Cl. 29—62)**

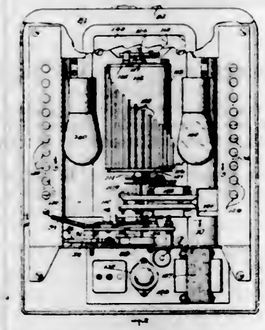


1. A stock feeding device for a machine tool comprising stock feeding means, a power source, an intermittently movable shaft, a normally inoperative driving connection between said power source and said shaft, and operative connections between said shaft and said means for alternately actuating the latter in a stock feeding direction and for restoring the same to its original position and including a disk fixed to said shaft, a second disk fixed to said shaft, and a control member movable to render said driving connection operative, said second disk and said control member having cooperating means for rendering said driving connection inoperative after a predetermined operative period.



---

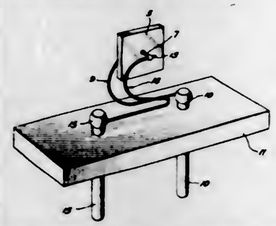
**2,388,595**
**AUTOMATIC PHONOGRAPH**
**James A. Boyajian, Chicago, Ill., assignor to J. P. Seeburg Corporation, a corporation of Illinois**
**Application March 3, 1939, Serial No. 259,586**
**28 Claims. (Cl. 194—15)**



22. In combination, an automatic phonograph including a motor, a remote control unit therefor, means in said remote control unit for transmitting a series of impulses of radio frequency energy, means in said phonograph adapted to receive said impulses, and means controlled by last said means for initiating the operation of the phonograph motor.

---

**2,388,596**
**PIEZOELECTRIC CRYSTAL**
**Robert E. Brooks, Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application January 9, 1943, Serial No. 471,884**
**6 Claims. (Cl. 171—327)**



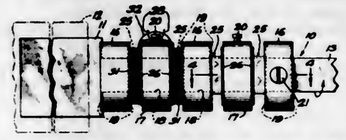
6. A resilient mounting for piezoelectric crystals comprising a lead wire extending from either side of the crystal, a single lobe curved spring attached to each lead wire, the lobes of said springs being in juxtaposition but spaced from each other and extending in substantially the same direction, a crystal mounting base having a pair of terminals mounted thereon, each of said springs being connected to one of said terminals, the two springs with their lobes extending in the same direction being the sole support for the crystal between the lead wires and said terminals.

**2,388,597**
**BICHALCOGENOUS MATERIALS**
**William James Burke, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application May 11, 1944, Serial No. 535,195**
**24 Claims. (Cl. 260—231)**

14. An O-(carboxymethylthioalkyl) cellulose.

---

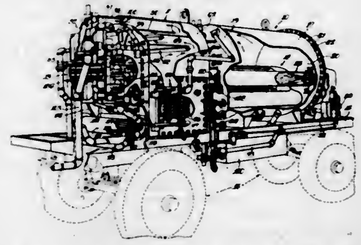
**2,388,598**
**METHOD OF MAKING COILS**
**Harold G. Cahill, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application November 12, 1943, Serial No. 510,073**
**4 Claims. (Cl. 175—21)**



1. A method of making a pair of coils on single-headed spools which comprises forming a confined space and winding an interconnected pair of coils on single-headed spools in said space, cementing the exposed outer peripheries of the coils, then removing the spools and coils from said space, and cementing the headless faces of the coils.

---

**2,388,599**
**DISTILLATION UNIT**
**John C. Cleaver and Jules Verne Resek, Whitefish Bay, Wis., assignors to Cleaver-Brooks Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application June 10, 1942, Serial No. 446,482**
**5 Claims. (Cl. 202—174)**

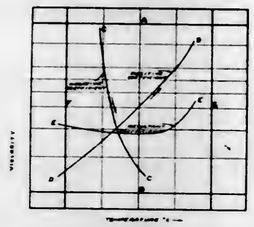


1. A distillation unit comprising, in combination, a first evaporator comprising a casing and fire tubes within the casing, a second evaporator comprising a casing and heat exchanger means within the casing, a first conduit leading from a point near the top of the casing of the first evaporator to the heat exchanger means of the second evaporator, a second conduit leading from the casing of the first evaporator at a point below the normal water level thereof to the casing of the second evaporator, a valve means interposed in said second conduit open during the operation of the distillation unit to permit a continuous flow of water from the first evaporator to the second evaporator at a rate in excess of the rate of evaporation therefrom, a conduit discharging to waste opening to said second evaporator at about the normal water level therein,

a condenser, means for conducting the vapor of said second evaporator to said condenser, a cooler, means for conducting the condensate from the condenser and the condensate from said heat exchanger to said cooler, an aerator, means for supplying coolant water to said cooler and to said condenser, means discharging a portion of the coolant water to the aerator, and means for drawing water from said aerator and discharging the same continuously to said first evaporator at a rate in excess of the rate of evaporation of both evaporators.

---

**2,388,600**
**POLYMERIZATION IN EMULSION**
**Henry Michael Collins, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of the Dominion of Canada**
**Application September 4, 1942, Serial No. 457,337**
**In Canada April 4, 1942**
**21 Claims. (Cl. 260—8)**



1. A stable aqueous emulsion made by emulsion polymerization and obtained by polymerizing in aqueous medium a normally liquid water-insoluble polymerizable monomeric vinyl compound in the presence of an anion-active surface tension depressant in amount effective to aid in obtaining a stable emulsion and within the range from about five hundredths percent to about three percent based on the total charges and as an emulsifying agent, two organic hydrophilic colloids resistant to hydrolysis under mildly alkaline and acidic conditions in aqueous media up to temperatures encountered in the polymerization for a period of several hours and selected from the group consisting of non-ionizable colloids and gelatin, said emulsifying agent being present in amount from about three-tenths of one percent to about one and two-tenths percent by weight of the total charge, there being present at least one tenth percent of each colloid based on the total charge, said colloids being effective together to stabilize said emulsion and no one of said colloids being effective alone at said total concentration to stabilize said emulsion.

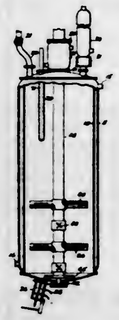
---

**2,388,601**
**POLYMERIZATION OF VINYL ESTERS**
**Henry Michael Collins, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of the Dominion of Canada**
**No Drawing. Application September 4, 1942, Serial No. 457,338. In Canada August 22, 1942**
**4 Claims. (Cl. 260—87)**

3. A coarse-grained suspension of a polyvinyl ester, comprising, discrete globules of the polyvinyl ester suspended in water, the amount of polyvinyl ester ranging from about 50% to about 70% by weight of the total charge, said globules having a size ranging from about 50 to about 300 microns, said suspension being stabilized by the presence of a surface tension depressant selected from the group consisting of anionic surface-active agents at a concentration ranging from about .05% to about .3% by weight of the total charge and a substantially neutral highly viscous hydrophilic colloid at a concentration of between about .2% and about .8% by weight of the total charge, said suspension being stable in the absence of stirring, capable of being handled as such without breaking, and capable of being broken to recover the polyvinyl ester by the addition of cold water.

---

**2,388,602**
**POLYMERIZATION OF VINYL ESTERS IN EMULSION**
**Mogens Kiar, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application September 4, 1942, Serial No. 457,339**
**In Canada July 28, 1942**
**6 Claims. (Cl. 260—8)**



1. A process of producing an aqueous emulsion of a polyvinyl ester, said ester having a predetermined specific viscosity within the range from about 1 to about 150 centipoises (in a one molar solution in benzene at 20° C.), comprising, polymerizing the vinyl ester at a concentration ranging from about 35% to about 65% in aqueous emulsion in the presence of a peroxide catalyst effective under the temperature conditions of reaction and in the presence of acetaldehyde as a controlling agent and in the presence as an emulsifying agent of organic hydrophilic colloid active to stabilize the emulsion under the conditions encountered in emulsion polymerization and selected from the group consisting of non-ionizable colloids and gelatin and in amount of about .75 to about 5%, the peroxide catalyst being present at a concentration selected from the range to provide available oxygen of from about .014% to about .47% by weight of the vinyl ester, the amount of acetaldehyde being selected from the range from about .03% to about 3% by weight of the total charge, the amount of catalyst and controlling agent being effective to convert substantially all said vinyl ester to a polymer of said specific viscosity as the dispersed phase of the emulsion, the reaction being carried out with refluxing and the refluxing indicating the progress of the reaction, said conditions serving to maintain refluxing to a minimum.



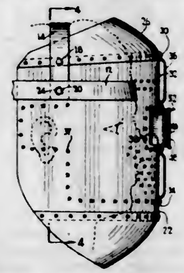
**2,388,603**
**PLATE FASTENING DEVICE**
**John De Mooy, Shaker Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 5, 1942, Serial No. 433,432**
**7 Claims. (Cl. 85—5)**



1. A temporary rivet including a substantially cupshaped housing having a bore through the bottom thereof, a clamping pin slidably mounted in said housing having legs slidable through said bore, a T-shaped spreader having a crossarm resting on the bottom of said housing between said legs for normally maintaining said legs apart, the lower end of said housing having a plurality of recesses into any one of which said crossarm is adapted to fit for preventing rotation of said clamping pin.

---

**2,388,604**
**WELDER'S HELMET**
**Merril Eisenbud, Monsey, N. Y.**
**Application July 8, 1942, Serial No. 450,112**
**3 Claims. (Cl. 128—143)**

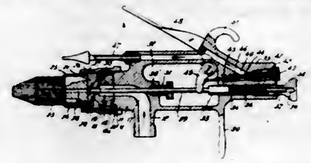


1. A device for excluding undesirable atmospheric elements from admission to the respiratory orifices, said device comprising a member which is adapted to be maintained in predetermined position in front of and spaced a short distance from the wearer's face, the space between said member and the wearer being open to the outside atmosphere, said member having a plenum chamber therein, apertures in the wall of said chamber immediately in front of the respiratory orifices, means to supply a respirable medium under pressure to said chamber, said apertures being so disposed that they will direct said medium toward and normal to the wearer's face around and close to the respiratory orifices whereby said medium will strike the face and flow toward the outside atmosphere thus preventing the outside atmosphere from reaching said respiratory orifices.

---

**2,388,605**
**APPARATUS FOR APPLYING COATING**
**Robert S. Eisner, Red Bank, N. J., assignor to Sigmund Eisner Co., Red Bank, N. J., a corporation of New Jersey**
**Application May 14, 1943, Serial No. 486,968**
**4 Claims. (Cl. 15—140.1)**

3. A device for applying a coating of liquid which comprises a body having a pair of passages extending therethrough, one of said passages being for a coating liquid supplied thereto under pressure and the other passage being for air supplied thereto under pressure, a brush having a base formed with a passage mounted on the body with the passage in the base in communication with the outlet from the coating-liquid passage, a



valve for controlling the flow of coating-liquid through said coating-liquid passage and the passage through the base of the brush, a nozzle in communication with said air passage, a valve for controlling the flow of air through said air passage and the nozzle, and a single handle mounted on the valve body for controlling both of said valves.

---

**2,388,606**
**PRODUCTION OF SECONDARY AMINES FROM NITROGEN COMPOUNDS**
**William S. Emerson, Dayton, Ohio**
**No Drawing. Original application December 16, 1940, Serial No. 370,355. Divided and this application September 15, 1944, Serial No. 554,329**
**8 Claims. (Cl. 260—577)**

1. The process of producing an N-alkylated amine comprising the hydrogenation of a mixture of two compounds, one of which is an organic nitrogen compound selected from the group consisting of primary and secondary aliphatic and aromatic amines, aliphatic and aromatic nitro compounds and aromatic nitroso and azo compounds, and the other of which is a ketone, in the presence of a hydrogenation catalyst and a condensing agent consisting of a weak organic acid.

---

**2,388,607**
**PRODUCTION OF TERTIARY AMINES FROM NITROGEN COMPOUNDS**
**William S. Emerson, Dayton, Ohio**
**No Drawing. Original application December 16, 1940, Serial No. 370,355. Divided and this application September 15, 1944, Serial No. 554,330**
**8 Claims. (Cl. 260—571)**

1. The process of producing an N-alkylated amine comprising the hydrogenation of a mixture of two compounds, one of which is an organic nitrogen compound selected from the group consisting of primary and secondary aliphatic and aromatic amines, aliphatic and aromatic nitro compounds and aromatic nitroso and azo compounds, and the other of which is an aldehyde in the presence of a hydrogenation catalyst and a condensing agent consisting of a salt of a mineral acid and an organic base.

---

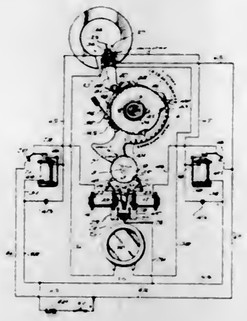
**2,388,608**
**PRODUCTION OF SECONDARY AMINES FROM NITROGEN COMPOUNDS**
**William S. Emerson, Dayton, Ohio**
**No Drawing. Application September 15, 1944, Serial No. 554,331**
**10 Claims. (Cl. 260—577)**

1. The process of producing an N-alkylated amine comprising the hydrogenation of a mixture of two compounds, one of which is an organic

nitrogen compound selected from the group consisting of primary and secondary aliphatic and aromatic amines, aliphatic and aromatic nitro compounds and aromatic nitroso and azo compounds, and the other of which is a ketone in the presence of a hydrogenation catalyst and a condensing agent consisting of a salt of a mineral acid and an organic base.

---

**2,388,609**
**AUTOMATIC CAMERA-DIAPHRAGM ADJUSTER**
**Arvid I. Ericsson, Chicago, Ill.**
**Application May 17, 1943, Serial No. 487,257**
**7 Claims. (Cl. 95—64)**

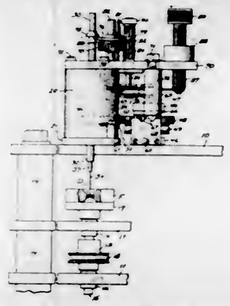


1. In a camera having the usual adjustable diaphragm to provide exposure openings of different sizes, the combination of a photoelectric cell responsive to the light conditions to which the camera lens is subject, a galvanometer connected to the cell so as to deflect in accord with variations of voltage generated by the cell under varying light intensities, step-by-step mechanism for actuating the camera diaphragm, said mechanism being responsive to deflections of the galvanometer, a source of power for actuating the step-by-step mechanism, cam means movable with the camera diaphragm, and means actuated by the cam means to cut off the source of power from the step-by-step mechanism when the diaphragm opening is proper for the existing light conditions.

---

**2,388,610**
**DIAMOND DIE DRILLING MACHINE**
**Herman G. Hanemann, Radburn, N. J., assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 1, 1943, Serial No. 471,071**
**7 Claims. (Cl. 125—30)**

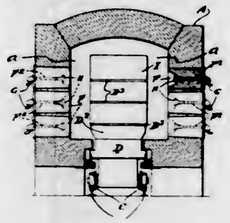
1. In a drilling mechanism for drilling comparatively small holes in work pieces, a frame, bearings in said frame, a drill spindle mounted in said bearings with its axis extending vertically, said spindle being freely slidable axially in its bearings, means to rotate said spindle, an axially movable gear mounted in said frame with its axis extending vertically, adjustable means to control the position of said gear along its axis, a collar secured to said spindle above said bearings, a lever rockably supported by said gear and extending to a position below and into engagement with said collar, cam means carried by said gear and adapted to coact intermittently with said lever to



move said spindle upwardly intermittently, and means to rotate said spindle and said gears.

---

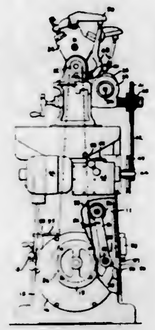
**2,388,611**
**METHOD OF FORMING VITREOUS COATINGS**
**Frederic O. Hess, Germantown, Pa., assignor to Selas Corporation of America, a corporation of Pennsylvania**
**Application May 16, 1941, Serial No. 393,804**
**6 Claims. (Cl. 117—125)**



1. In the art of producing articles having a vitreous surface film, the improvement which comprises applying to an article a coating of non-vitreous material which fuses when heated and is converted to a vitreous film, placing the coated article in a space from which gases may pass, subjecting the article while in the space to radiant heat including heat radiated from a plurality of incandescent zones spaced from each other and to which the coating is exposed, so as to heat the coating to a predetermined high temperature in the neighborhood of 1325° F. or higher and produce a vitreous film, burning combustibles in the space to heat the zones to incandescence, the burned products of combustion formed in the space encompassing the article and augmenting the heating of the article by the radiant heat, and burning the combustibles substantially completely in regions closely adjacent to and in the immediate vicinities of the zones and supplying the combustibles to the zones at a rate to heat the coating to the predetermined high temperature and cause the burned products of combustion to flow from the zones and through the space and pass therefrom at a low velocity which will not appreciably disturb the layer of gas immediately adjacent the coating, so that any adverse effect tending to result from the reaction of any constituent of the burned products of combustion with the coating will be insufficient to impair the smooth and lustrous surface formed on the vitreous film.



**2,388,612**
**SCREW MACHINE**
**William E. Joyce, William H. Himes, and Delbert I. Wilson, Dayton, Ohio, assignors to The City Engineering Company, Dayton, Ohio, a corporation of Ohio**
**Application January 12, 1942, Serial No. 426,484**
**2 Claims. (Cl. 82—28)**



1. A screw machine comprising a base member having a bottom wall, a spindle supported by said base member, a variable speed drive unit and an electric motor for the same supported by said base member and disposed adjacent said bottom wall, an output shaft extending from said variable speed drive unit, support members extending upwardly from said bottom wall, self-aligning bearings carried by said support members, a drive shaft disposed within said self-aligning bearings and coupled to said output shaft in alignment therewith, pulley means carried by said drive shaft, belt means extending from said pulley means to said spindle for driving the same, an idler pulley in engagement with said belt means, and switch means adapted to be actuated by said idler pulley if said belt means should leave said idler pulley for stopping operation of the screw machine.

---

**2,388,613**
**MANUFACTURING SOLID PRODUCTS**
**Harry Keller, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Application February 15, 1943, Serial No. 475,971**
**7 Claims. (Cl. 106—170)**

1. An elastomer comprising the product of the thermal reaction of water-insoluble ethyl cellulose, at least one normally solid, crystalline substituted polyphenyl hydrocarbon selected from the group consisting of ortho nitro-diphenyl, ortho, meta and para diphenyl benzenes and mixtures of said substituted hydrocarbons; and a hydrogenated higher fatty acid glyceride; said materials, with the exception of ethyl cellulose, being formed into a hot melt, said ethyl cellulose being incorporated therein and said melt thereupon heated at a temperature between 140–240° C. for a period of time ranging from 20 minutes to 4 hours.

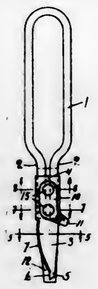


**2,388,614**
**DISINFECTANT COMPOSITIONS**
**James Emory Kirby and John Frank Lontz, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application May 5, 1942, Serial No. 441,872**
**9 Claims. (Cl. 167—22)**

7. A bactericidal composition comprising a betaine having, on an annular atom thereof, an alkyl radical of at least eight carbon atoms and a water-soluble linear polymeric amidine salt wherein the amidine salt groups are separated by bivalent aliphatic hydrocarbon radicals of at least six carbon atoms.

---

**2,388,615**
**CAN OPENER**
**Franz K. Krag, Chicago, Ill.**
**Application May 4, 1944, Serial No. 534,053**
**6 Claims. (Cl. 30—22)**



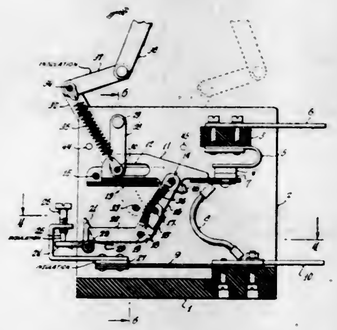
1. A device of the type specified which comprises a handle element, a can piercing and cutting blade disposed substantially in the plane of one side face of said handle, and a guide blade similarly disposed with respect to the other side face of the handle, said blades being spaced from each other below the lower end of the handle, a sharp fulcrum edge member being disposed to bridge the space between said blades along the upper rear edge of the free space between them, an offset projection adjacent the upper end of the rear edge of said cutting blade, the latter equipped with a terminal formation provided with a piercing point and a front edge portion terminating at its upper end in the cutting edge of the cutting blade and constituitng a stop to limit the cutting stroke of said blade.

---

**2,388,616**
**USE OF DEHUMIDIFICATION AGENTS**
**William A. La Lande, Jr., Upper Darby, Pa., assignor to Attapulgus Clay Company, Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Application August 28, 1942, Serial No. 456,727**
**7 Claims. (Cl. 210—42.5)**

1. The method of dehumidifying fluids, which comprises intimately contacting a fluid containing moisture with acid activated bentonite from which the free moisture and from 18% to 70% by weight of the combined water has been removed.

2,388,617
**SWITCH CONSTRUCTION**
**Edwin A. Link, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware**
Application May 17, 1943, Serial No. 487,208
9 Claims. (Cl. 200—116)



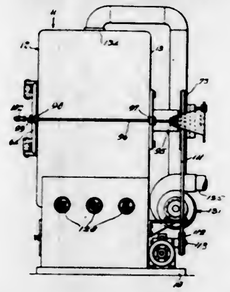
1. A circuit breaker comprising stationary contact means, movable contact means, a main switch operating means for moving said movable contact means into and out of engagement with said stationary contact means, an auxiliary switch operating means pivoted to said main switch operating means at a first pivot and pivotally supported at a second pivot, main operating means for moving said main switch operating means about said first pivot to open and close said circuit breaker, holding means in the form of toggle links for normally holding said first pivot against motion and releasable to allow said main and auxiliary switch operating means to move to switch open position, and condition responsive means for releasing said holding means.

2,388,618
**RUBBER LUBRICATING AND PLASTICIZING COMPOSITION**
**Morris Omansky, Brookline, Mass., assignor, by mesne assignments, to Victor Chemical Works, Chicago, Ill., a corporation of Illinois**
No Drawing. Application December 3, 1941, Serial No. 421,518
8 Claims. (Cl. 260—23)

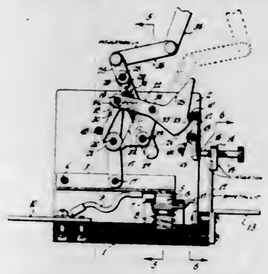
1. A rubber composition of matter comprising a rubber and a plasticizing proportion of a neutralized phosphated castor oil.

2,388,619
**FUR CLEANING MACHINE**
**Nathan Root, Grand Rapids, Mich.**
Application April 7, 1945, Serial No. 587,121
10 Claims. (Cl. 69—23)

1. A cleaning machine adapted to receive fur garments and a particulate cleaning material comprising in combination a supporting structure, a source of power, a hollow cylindrical drum to receive the garments and material and supported for rotation in said structure and having a plurality of apertures therein, a shutter member provided with leaves equal to the number of said apertures and each leaf being at least coextensive with an associated aperture, said member being supported for rotation in said structure, means connecting said source with said member for rotation thereof, means intermediate said drum and member whereby rotation of said member rotates said drum, resilient means intermediate said drum and member normally urging said member and drum in opposite angular directions with respect to each other, and selectively operable means to lock said drum and member with respect to each other whereby driving of said member drives said drum to position said leaves in register with said apertures and interruption of said driving permits said leaves to move out of register with said apertures under urging of said resilient means.



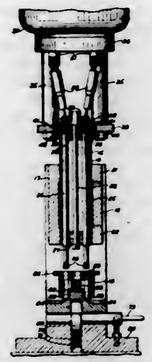
2,388,620
**SWITCH CONSTRUCTION**
**Glenn B. Runke, Racine, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware**
Application May 21, 1943, Serial No. 487,884
14 Claims. (Cl. 200—116)



4. A circuit breaker comprising a body portion, stationary contact means carried thereby, switch means including movable contact means adapted to engage and disengage said stationary contact means, toggle link mechanism having one outer end pivoted to said switch means and having the other outer end pivoted to said body portion, a movable carrier pivotally supported from said body portion, condition responsive means normally holding said carrier against motion and adapted to release said carrier, movable main operating means, intermediate operating means pivoted on said carrier and operatively connected to an intermediate portion of said toggle link mechanism, and spring means connecting said intermediate operating means and said main operating means for operating said intermediate operating means from said main operating means, said spring means biasing said carrier towards outward motion, the line of pull of said spring means passing from one side to the other of the pivot point of said intermediate operating means when said main operating means is moved and being closely adjacent the pivot point of said carrier when the circuit breaker is closed.



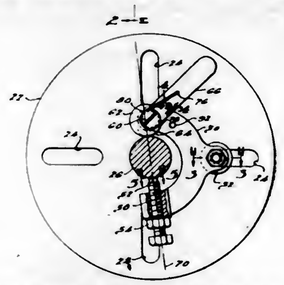
2,388,621
**ARTICLE WORKING APPARATUS**
**Emil Sirp, Downers Grove, and John S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
Application April 30, 1943, Serial No. 485,118
5 Claims. (Cl. 77—4)



1. In a boring apparatus, a plurality of spindles, a cylindrical housing, a bearing block supported at each end on said housing for rotatably supporting said spindles leaving the intermediate portions of said spindles free, said spindles extending out of said housing at either end, cutting tools attached to one end of said spindles, and means for driving said spindles connected to the opposite ends thereof, a base having a work support thereon, a guide block on said base for reciprocably supporting said cylindrical housing, and means for guiding said cylindrical housing in said guide block to maintain a predetermined angular relationship therebetween.

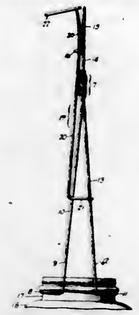
2,388,622
**LATHE DOG**
**Robert Roe Stewart, Findlay, and Theodore R. De Long, Van Buren, Ohio, assignors to William E. Mize, Detroit, Mich.**
Application May 31, 1943, Serial No. 489,192
13 Claims. (Cl. 82—42)

1. A lathe dog comprising, in combination, a member adapted for securement to the face plate of a lathe, a yoke-like member secured to the first mentioned member for free oscillatable movement with respect thereto, a work engaging stop carried by one arm of said yoke-like member, a work engaging cam-like member pivotally mounted on the opposite arm of said yoke-like member, and an off center mass rigid with said cam-like member adapted to be operated by centrifugal force to move said cam-like member



in a direction to reduce the effective distance between it and said stop member.

2,388,623
**JAR LIFTER**
**Margaret T. Sturr, Haddon Heights, N. J.**
Application October 23, 1944, Serial No. 559,949
4 Claims. (Cl. 294—33)

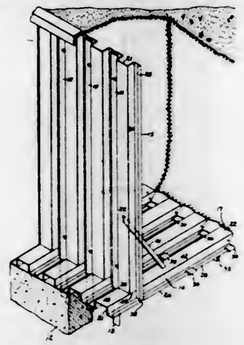


1. A jar-lifter and carrier comprising a pair of opposedly-influenced members respectively consisting of a length of wire bent intermediate the ends to provide a shank including mutually-engaged straight leg portions, said portions being spiralized together proximate one end to form a rigid section; a gripping-jaw at the free end of each shank straight portion including opposed rectangular extensions with an intervening integral curved connection; suspension means, at the outer end of the rigid section, consisting of an extension of one of the spiralized portions of the bent wires formed into a lifter-loop, with its free end turned into a guide-eye; an associated slidable locking-element movable through the guide-eye and embodying a loop at one end encircling the shank straight portions; and a manipulator projection at the outer end of the locking element, whereby the respective movable-members are closable inward with the gripping-jaws locked to a jar neck.

2,388,624
**CANTILEVER RETAINING WALL STRUCTURE AND METHOD OF MAKING THE SAME**
**Armen H. Tashjian, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio**
Application June 2, 1944, Serial No. 538,516
28 Claims. (Cl. 61—39)

25. A unit for wall construction and the like, the unit including a base cantilever member and a

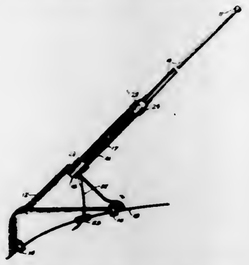
wall cantilever member angled with respect to each other, means connecting one end of the wall member with the base member, and each member



including a plurality of walls forming a central elongated channel having a side hook flange at each side.

---

**2,388,625**
**ANTENNA FOR AUTOMOBILES AND OTHER VEHICLES**
**Otto E. Wagenknecht, Chicago, Ill., assignor to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois**
**Application December 14, 1942, Serial No. 468,931**
**4 Claims. (Cl. 250—33)**



1. The combination with an automobile having a windshield and a roof extending rearwardly from the upper part of said windshield, of an insulating antenna mounting supported on a portion of said roof above the windshield, a flexible rod antenna of a length comparable with the length of said roof, means for resiliently supporting one end of said rod antenna on said mounting, said resilient supporting means being arranged to bias the unsupported end of said flexible rod antenna in a generally upward direction, means for releasably latching the unsupported end of said rod antenna on said roof at a point in the rear of said mounting at a distance less than the length of said rod antenna whereby said rod antenna is held, when its unsupported end is engaged by said latching means, in a bowed position in which capacity between said rod antenna and said roof does not seriously reduce the intensity of signals picked up by said rod antenna, said latching means providing insulation between said rod antenna and said roof whereby signals are not short circuited therebetween, and means carried by and operated from within said automobile for releasing said latch means whereby said antenna may be released to a generally upward position for better signal reception during motion of said automobile.

---

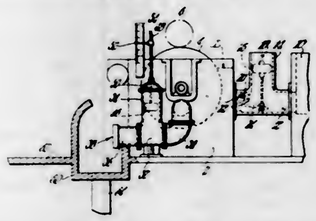
**2,388,626**
**EYEGLASS, SHIELD, OR THE LIKE**
**Edgar I. Wilson, Oakland, Calif., assignor of one-third to John M. Wilson and one-third to Larry A. Larson, both of Oakland, Calif.**
**Application January 16, 1942, Serial No. 426,980**
**1 Claim. (Cl. 2—14)**



An eye shield adapted to be worn on the face comprising a visor member of sufficient depth and width to cover both eyes of the wearer, hinge means connected to said member with the axis of the hinge adjacent and parallel with the upper edge of said visor said means including a tube fixed to said member and a shaft extending through said tube, cooperating means comprising temple pieces fixed to said shaft and extending through circumferential slots in said tube to limit the upward movement of said member and the downward movement of said member by co-action of said temple pieces and slot ends about the hinge axis to a position with the opposite edge of said member substantially below the eyes of the wearer, and gripping means associated with said hinge means for rotating the visor member about the hinge axis.

---

**2,388,627**
**PAPERMAKING APPARATUS**
**George S. Witham, Hudson Falls, N. Y.**
**Application October 9, 1940, Serial No. 360,443**
**1 Claim. (Cl. 92—46)**



The combination in apparatus of the class described of a vat having a foraminous cylinder rotatable therein and provided with an inlet means for paper stock at one side of the cylinder and an outlet means at an end of the cylinder to facilitate the admission of water including paper fibers into the vat through said inlet and through said cylinder and out said outlet, said inlet means provided with a vertically disposed chamber in communication therewith for a column of paper stock and valve means disposed between said chamber and said vat, a float in said chamber for movement up and down as the level of the column of paper stock in the chamber raises and lowers, connections between said valve means and float whereby the former is opened and closed accordingly as the float is moved down and up thereby to maintain a predetermined level of paper stock in the vat, said outlet means provided with a discharge means of predetermined area for a predetermined water discharge and a vertically disposed discharge chamber in communication therewith between the discharge means and said vat for a column of water, a float in said discharge chamber for movement therein up and down as the level of the column of water in the chamber raises and lowers, and means for indicating the level of water in the discharge chamber operably connected to said float, all adapted and arranged whereby paper stock is maintained at a predetermined level in said vat by the valve means and first named float and the discharge of water at the discharge means is maintained at a predetermined rate so that variations in the consistency of stock in the vat results in more or less water passing out the outlet means and brings about variations in the level of the float in the discharge chamber to operate the indicating means connected thereto to indicate variations in the consistency of the paper stock.



---

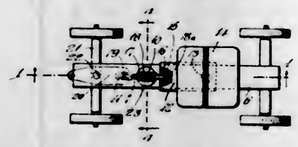
**2,388,628**
**HAIR CURLER**
**Mabel L. Wormington, Kansas City, Mo.**
**Application September 30, 1944, Serial No. 556,545**
**5 Claims. (Cl. 132—40)**



1. In a hair curler, a tubular member adapted to be fitted, as a thimble, on a finger and held at one end thereby against the scalp, and means including an outer tubular member slidably mounted on said first named member and adapted to engage and hold from uncoiling a tuft of hair coiled in ringlet form around said first named member, and having means for engaging other hair on the scalp for holding said two members from tilting.

---

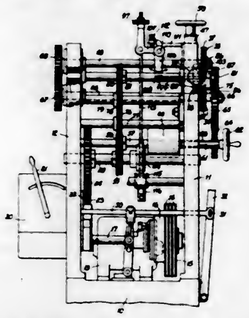
**2,388,629**
**TOY WAGON AND MEANS FOR STEERING THE SAME**
**Miner S. Anderson, Wabasha, Minn.**
**Application April 26, 1944, Serial No. 532,813**
**5 Claims. (Cl. 46—201)**



1. A toy wagon having a suitably mounted chassis, a turnable member mounted on the chassis and having a slot in its front side, a pin vertically disposed in the slot, an arm having an eye in which the pin is seated so that the said arm may oscillate as the turnable member is moved, the said arm having a slot in its front end, a crank having a flat upper end projecting into the slot of the arm, means for rotatably mounting the crank in the chassis, a front axle having wheels, a plate secured to the axle to move it as the crank is oscillated, and a king pin extending through the chassis, axle and plate, whereby the parts are held assembled.

---

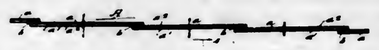
**2,388,630**
**WIRE-COILING APPARATUS**
**Charles R. Bergevin, Torrington, Conn., assignor to The Torrington Manufacturing Co., Torrington, Conn., a corporation of Connecticut**
**Application July 9, 1943, Serial No. 494,105**
**23 Claims. (Cl. 153—65)**



1. In a machine for coiling wire or the like, a plurality of rotary feed rolls, a coiling arbor, a rotary coiling abutment, means for continuously and concurrently rotating the feed rolls and abutment, and means for controlling the relative rates of rotation of the feed rolls and rotary abutment, said means, rolls, arbor and abutment coacting to effect, successively, the feeding of the wire stock, formation of said stock into an arcuate portion and the feeding of a further portion of wire stock which is continuous with said arcuate portion.

---

**2,388,631**
**GARNETT CYLINDER**
**William F. Bokum, Jenkintown, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania**
**Application December 31, 1943, Serial No. 516,505**
**4 Claims. (Cl. 19—114)**



1. Clothing for a cylindrical carding element, comprising a series of rings respectively composed of sections of a toothed carding wire each substantially equal to the circumference of said element and disposed in laterally abutting relation to each other on the periphery thereof with opposite ends of adjacent sections in circumferentially overlapping relation to each other and with said overlapping ends permanently attached to each other.

---

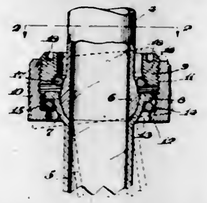
**2,388,632**
**GRANULAR SOAP PRODUCT**
**David R. Byerly, Wyoming, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio**
**No Drawing. Application July 29, 1943, Serial No. 496,583**
**15 Claims. (Cl. 252—368)**

1. A granular soap product comprising a uniform mechanical mixture of a granular soap which balls when added to warm water and a granular, substantially non-balling soap product whose fat formula contains coconut oil in substantial proportion, the balling tendency of the mechanical mixture under comparable condi-

tions being less than that of a granular soap product containing the same proportion of coconut oil soap and otherwise comparable, but prepared from a mixture of fats containing the coconut oil.

---

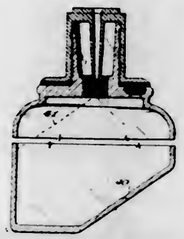
**2,388,633**
**CLAMP FOR SPHERICAL JOINTS**
**Charles M. De Woody, Vineland, N. J., assignor to Ace Glass Incorporated, Vineland, N. J., a corporation of New Jersey**
**Application December 23, 1943, Serial No. 515,443**
**5 Claims. (Cl. 285—95)**



1. The combination with a ball and socket joint having parti-spherical outer surfaces, of a clamp comprising a plurality of collars surrounding the joint and in threaded connection with one another, one of said collars being of sufficient size to be passed endwise over the ball and the other of sufficient size to be passed endwise over the socket, and each collar having an abutment surface arranged at an angle to the axis of the joint, and ring means engaging respectively an abutment surface of one of the collars and a parti-spherical surface of one of the members of the joint.

---

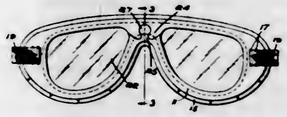
**2,388,634**
**CONTAINER FOR ASEPTIC FILLING AND DISPENSING OF STERILE LIQUIDS**
**Charles M. De Woody, Vineland, N. J., assignor to Ace Glass Incorporated, Vineland, N. J., a corporation of New Jersey**
**Application December 7, 1944, Serial No. 567,094**
**13 Claims. (Cl. 128—272)**



1. A receptacle of the character described having a top provided with a central opening and an off-center opening, a neck extending upwardly from the top and provided with a screw thread, a cap having threaded engagement with said screw thread and provided with a base flange extending over said off-center opening, said flange having an opening designed to register with said off-center opening when the cap is in a predetermined position, a washer arranged between said flange and the top of the receptacle and provided with a plug normally closing said off-center opening and adapted to be held in closed position by the flange, a tubular member connected to the cap and extending into the bottle neck, and a closure for the central opening including a stopper carried by said tubular member.

---

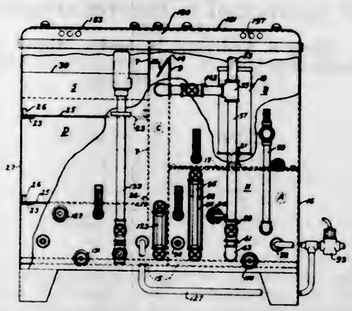
**2,388,635**
**GOGGLE**
**Hugo M. Ditto, Newton, Mass., assignor, by mesne assignments, to Marine Optical Mfg. Co., Boston, Mass., a partnership composed of Arthur Ditto, Hugo M. Ditto, and Eugene D. Ditto**
**Application December 15, 1942, Serial No. 469,136**
**4 Claims. (Cl. 2—14)**



1. Goggles of the character described, comprising a frame of flexible plastic material conformable to the face of the wearer, the frame having a single opening for a one-piece lens and a groove extending around the opening to receive the periphery of said lens, a flexible lens removably retained in said groove, the top and bottom sides of the frame having separably interlocking bridge members embracing the central portion of the lens to strengthen the frame and hold the lens in position, a cushioning tube of compressible material secured to the outer margin of the frame and projecting rearwardly thereof, and a head strap connected to the ends of the frame for supporting the goggles against the face.

---

**2,388,636**
**LUBRICANT CONDITIONER**
**Frank B. Harvuot, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind, a corporation of Indiana**
**Application Novembr 7, 1940, Serial No. 364,686**
**10 Claims. (Cl. 210—49)**

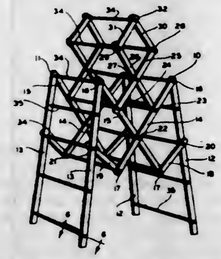


1. In a lubricant conditioner, the combination of a flow line for said lubricant, a compartment containing wash fluid of higher specific gravity than said lubricant, an oil separating device comprising an inverted container having a flat top wall and a downturned rim, a plurality of small, diffusion orifices in said top wall for forming droplets of lubricant, submerged in said wash fluid, said flow line being disposed to open into said container from below so that a body of lubricant will collect in said container adjacent said orifices, means for limiting the rate of flow of lubricant to the container to at least the rate of flow of lubricant from said container, and means for levelling said container.

---



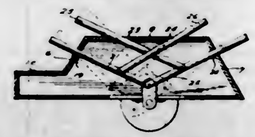
**2,388,637**
**FOLDING CLOTHES RACK**
**Edward T. John, Minneapolis, Minn., assignor to The J. R. Clark Company, Minneapolis, Minn., a corporation**
**Application June 4, 1943, Serial No. 489,710**
**1 Claim. (Cl. 211—170)**



A clothes rack comprising a multiplicity of side frame bars on each side of the clothes rack, holes through said bars, sockets set in said holes formed of sheet metal cylinders split along one side, an inward projection on each said sheet metal socket member, a multiplicity of wood rungs, each having reduced end portions of greater diameter than the normal inner diameter of the sockets forced into and turned in said sockets thereby forming right-angled grooves in said end portions, whereby the frame bars are pivotally connected together and the rungs are locked upon the side frame members.

---

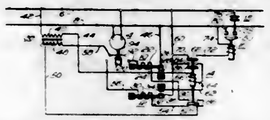
**2,388,638**
**TOY TANK**
**George S. Lawrence, Chester, Pa.**
**Application June 21, 1944, Serial No. 541,388**
**1 Claim. (Cl. 46—219)**



A toy tank comprising a body having an axle rotatably supported thereby, wheels secured to the axle for rotating the latter upon movement of the wheels over the ground, a crank on the axle, said body including front and rear walls and a top, said front and rear walls and said top having openings therein, a pair of toy guns having one end pivotally attached to the crank, one of said guns being slidably positioned in the opening in the front wall and the other of said guns being slidably positioned in the opening of the rear wall for endwise movement by said crank, and a pair of additional toy guns each pivotally attached at one end to one of the guns of the first-named pair intermediate the ends thereof, said additional pair of guns being crossed and slidably positioned in the openings in the top of the tank, for endwise movement by the first-named pair oppositely relative to the direction of movement of the guns of the first-named pair.

---

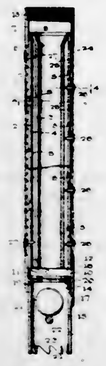
**2,388,639**
**CONTROL SYSTEM**
**Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 15, 1942, Serial No. 443,062**
**8 Claims. (Cl. 175—320)**



1. A relay control system comprising, electroresponsive switch means operable to connect a device to an electric circuit, a relay for controlling the energization of said switch means, first and second electrothermal relays operable to control the energization of the control relay, said first thermal relay having normally open contact members and said second thermal relay having normally closed contact members, an energizing circuit for the control relay including said normally open and normally closed contact members in series relation, a holding circuit for the control relay extending through said normally closed contact members, said control relay having contact members operable to close said holding circuit upon closure of the relay, and relay means responsive to predetermined electrical conditions of the electric circuit for selectively controlling the energization of the electrothermal relays to alternately connect and disconnect the said device to and from the electric circuit in accordance with said predetermined electrical conditions.

---

**2,388,640**
**WELL POINT**
**Thomas F. Moore, Morris Plains, N. J.; Edward J. Moore and Mary Moore Dacey, executors of said Thomas F. Moore, deceased**
**Application December 17, 1943, Serial No. 514,686**
**3 Claims. (Cl. 166—5)**



1. In a wellpoint of the class described, having a perforated tubular body and having jetting and suction fluid passages respectively within the same, and a foraminous envelope disposed about the tubular body and lying over the perforations, a yieldable cushioning means between the foraminous envelope and the tubular body, said cushion-

ing means having the form of flexible fire-resisting material spirally wound about the tubular body with its turns axially spaced from each other.

---

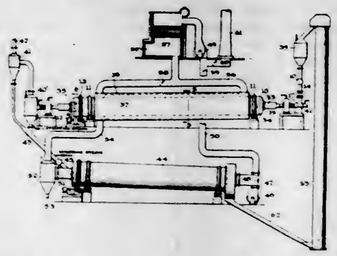
**2,388,641**
**TOASTER**
**Joseph W. Myers, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania**
**Application February 19, 1941, Serial No. 379,706**
**16 Claims. (Cl. 99—329)**



2. In an automatic toaster, bread toasting means, means for initiating the toasting operation, means for operating said bread toasting means at a predetermined toasting rate until the surface of the bread reaches a predetermined temperature, and for thereafter operating said toasting means at a lower average toasting rate, means for adjusting the time interval during which said lower average toasting rate prevails, and means for automatically terminating said toasting operation at the expiration of said time interval.

---

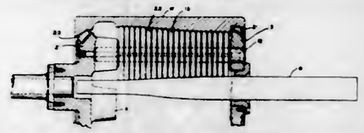
**2,388,642**
**APPARATUS FOR CONTINUOUS CONVERSION OF HYDROCARBONS**
**Povl Ostergaard, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 18, 1942, Serial No. 466,032**
**2 Claims. (Cl. 196—52)**



1. Apparatus for the continuous conversion of hydrocarbon vapor which comprises a rotary drum constituting a reaction chamber provided with internal flights and having an axial inlet and outlet at its respective ends, conduits communicating with the inlet for passage of a catalyst and hydrocarbon vapor into the drum, means for rotatably supporting the drum, a jacket surrounding said drum and extending substantially the length thereof to define a space through which a heat exchange medium flows in contact with the drum, means for separating spent catalyst and reaction products discharged from said drum, a second rotary drum constituting a regenerating chamber to which spent catalyst is delivered, means for admitting air for combustion to said regenerating chamber counter to the flow of catalyst therethrough, means for collecting and returning regenerated catalyst to the reaction chamber, and a conduit for conveying hot combustion gases from the regenerating drum to the jacket space surrounding the reaction drum.

---

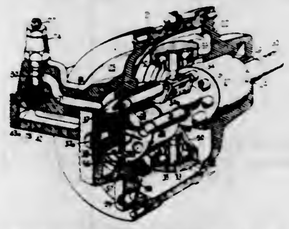
**2,388,643**
**APPARATUS FOR SWAGING TUBULAR BLANKS**
**Fredrich J. Rode and Meredith R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware**
**Application January 2, 1943, Serial No. 471,204**
**2 Claims. (Cl. 80—12)**



1. In a device of the character described, a chuck comprising a rotatable inner portion having a plurality of circumferentially-spaced shafts mounted therein and an outer portion revoluble relatively to said inner portion, and a set of disk-like dies mounted on each shaft, said outer portion of the chuck having an inner wall engageable by said dies.

---

**2,388,644**
**HYDRAULIC PUMP, FLUID MOTOR, OR COMPRESSOR**
**George Roessler, Teaneck, N. J.**
**Application May 8, 1943, Serial No. 486,186**
**14 Claims. (Cl. 103—162)**



1. A hydraulic pump comprising a housing having intake and discharge openings, a rotatable shaft journaled in said housing, a rotor including opposed cylinder shells and sets of coaxial opposed pistons rotatable with said shaft, a thrust bearing assembly suspended within said casing having a portion rotatable with said rotor, means for operatively connecting said assembly to said pistons for reciprocating the same, said thrust bearing assembly being capable of tilting movement about its points of suspension between a vertical position and an angular position, spring means for normally maintaining said thrust bearing assembly in its angular position, and pressure means for controlling the angular movement of said assembly.

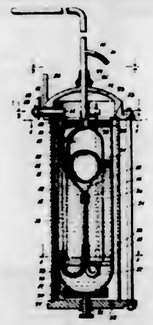
---

**2,388,645**
**RATE OF RISE CIRCUIT CONTACT OPERATING DEVICE**
**Julian F. Rowe and Jean E. Rowe, Stewart Manor, Long Island, N. Y.**
**Application August 10, 1944, Serial No. 548,916**
**15 Claims. (Cl. 200—140)**

1. A rate of rise circuit contact operating device comprising a liquid container having at least two



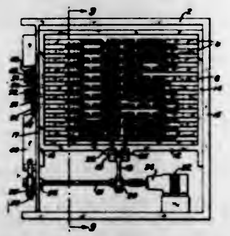
chambers, a non-conducting liquid partially filling the chambers, communicating means between the chambers located below the surface of said liquid and constituting the only means of communication between said chambers, electrical circuit



contacts, means for affecting the electrical circuit contacts buoyed by the liquid, and means for applying sudden pressure changes from a rate of rise detection system to the surface of the liquid in one chamber to cause displacement thereof.

---

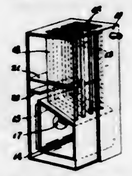
**2,388,646**
**DISPLAY SIGN**
**Arthur M. Ryan, San Mateo, Calif.**
**Application September 23, 1941, Serial No. 411,955**
**5 Claims. (Cl. 40—76)**



1. A device for presenting sequentially a series of displays comprising a plurality of multi-faced members mounted for rotation about parallel axes, a component of a single display disposed on the upper half of each face of each of said members, a component of a second display disposed on the lower half of each face of each of said members, means for alining simultaneously two complete displays formed on said upper and lower face halves of said members, motor-driven means to rotate said multi-faced members in unison, a vertically adjustable shutter frame having spaced slats disposed parallel to said multi-faced members, and motor-driven means to reciprocate said shutter in timed relation to the rotation of said multi-faced members so that the upper face components of said multi-faced members are masked and exposed alternately, and the lower face components of said multi-faced members are masked and exposed alternately and the upper face components are masked and exposed alternately with respect to the lower face components as said multi-faced members are rotated.

---

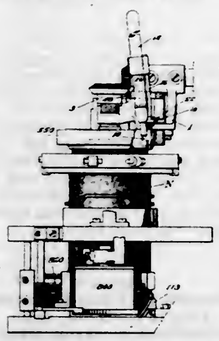
**2,388,647**
**FIRE-TUBE BOILER**
**Howard G. Sawyer, Bayside, N. Y.**
**Application October 7, 1944, Serial No. 557,643**
**7 Claims. (Cl. 122—126)**



1. A fire tube boiler, comprising a boiler casing for holding and circulating a quantity of water and for generating steam, a combustion chamber located in the bottom portion of said casing having a burner and a downwardly sloping top crown sheet, rectangular fire tubes spaced from each other, located at desired positions, and extending upwards from said crown sheet to the top of said casing, a smoke hood mounted on the top of said casing for connecting said fire tubes with a chimney, a narrow baffle plate mounted within said casing slightly above the high end of said crown sheet, and a wider baffle plate mounted within said casing above said narrow baffle plate.

---

**2,388,648**
**METHOD AND MACHINE FOR MARKING CIRCULAR KNIT FABRIC FOR BOARDING**
**Harry N. Sheppard, Maplewood, N. J., assignor to Scott & Williams, Incorporated, New York, N. Y., a corporation of Massachusetts**
**Application July 1, 1944, Serial No. 543,129**
**14 Claims. (Cl. 66—1)**



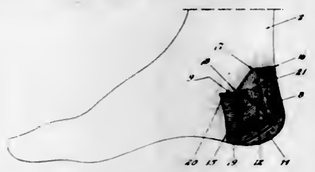
1. In a method of manufacturing hosiery on a seamless hosiery machine, the step of marking hosiery fabric during knitting with a line in fugitive dye on a body thread to indicate a wale for engaging an edge of a preboarding form.

---

**2,388,649**
**CIRCULAR KNIT HOSIERY AND METHOD OF MAKING SAME**
**Harry N. Sheppard, Maplewood, N. J., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts**
**Application May 31, 1945, Serial No. 596,846**
**20 Claims. (Cl. 66—187)**

1. In a circular knit stocking having a heel comprising a plurality of adjacent progressively

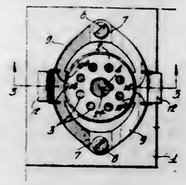
narrowed tapered gussets arranged one below the other, each extending to the instep fabric, an upper gusset having less than half the wales



of the leg and the gusset below it containing more courses than said upper gusset, whereby the heel is extended under the foot.

---

**2,388,650**
**RADIO TUBE CLAMP**
**Percy Whittell, Philadelphia, Pa., and Frank J. Carraine, West Collingswood, N. J., assignors to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application February 26, 1944, Serial No. 524,134**
**11 Claims. (Cl. 248—361)**



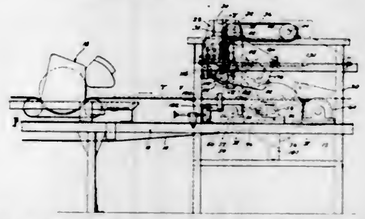
1. A tube clamping device consisting of a substantially annular member having opposite arcuate resilient side portions diverging angularly from one side of a common base plane and with respect to each other for embracing the base of said tube, each of said side portions having an inwardly directed bite portion for clamping engagement with said base, and having an arm extending away from said plane and beyond the said bite portion, and an inwardly projecting shoulder-forming lug on said arm also for clamping engagement with said base.

---

**2,388,651**
**RUBBER HYDROCHLORIDE**
**La Verne E. Cheyney, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application January 24, 1944, Serial No. 519,567**
**4 Claims. (Cl. 260—771)**

1. The process of hydrochlorinating rubber in solution in an aromatic hydrocarbon to a chlorine content of about 30 per cent and catalyzing the system, thereby hastening the hydrochlorination and reducing or eliminating the ripening period, which comprises passing hydrogen chloride gas into the rubber in a solution which contains Naftolen in which there is present a catalyst in an amount sufficient for catalysis, Naftolen being a cyclized hydrocarbon having the empirical formula $(C_4H_3)_n$ where $n$ varies from about 5 to about 50, and which is obtained from petroleum refinery sludges and is soluble in aniline, acetone, and concentrated sulfuric acid.

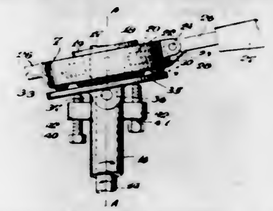
**2,388,652**
**VALVE STITCHING APPARATUS**
**Everett D. George and Meindert Lammertse, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**Application May 29, 1943, Serial No. 489,104**
**15 Claims. (Cl. 154—9)**



14. Apparatus for stitching valve stems to an extruded inner tube and including means for continuously conveying the inner tube, a valve stem stitcher, means for moving the stitcher to and from a position over a valve stem carried on the continuously conveyed inner tube, and means initiated into operation by the valve stem for controlling the operation of the stitcher moving means.

---

**2,388,653**
**HELICOPTER**
**Russell R. Hays, Lawrence, Kans.**
**Application October 8, 1943, Serial No. 505,527**
**13 Claims. (Cl. 244—17)**

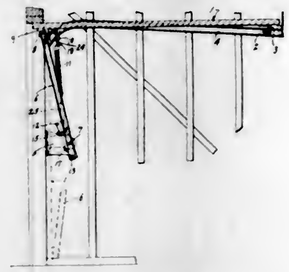


13. Anti-torque mechanism for helicopters having a rotor comprising the combination of coaxial shafts, one of said shafts driving said rotor and cooperating means on the other of said shafts and said rotor for inducing counter-rotational wobbling of the rotor about its axis of rotation.

---

**2,388,654**
**OVERHEAD DOOR**
**Verne L. Holmes, Los Angeles, Calif.**
**Application October 27, 1941, Serial No. 416,661**
**6 Claims. (Cl. 20—19)**

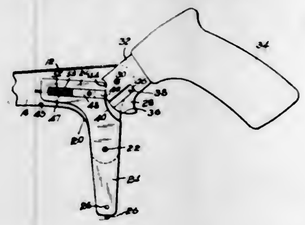
1. In an overhead door construction, the combination of a rigid vertical door, overhead substantially horizontal guides, means on said door to engage said guides whereby the door is adapted to open from a vertical position into a substantially horizontal overhead position, stationary brackets, lever arms pivotally supported by said brackets, door brackets, pivots connecting the door brackets with the lever arms at points removed from the free ends of the levers, compensating bars connected to the free ends of the levers, springs anchored at their one ends at points in proximity to the upper end of said door when said door is in its vertical position, means linking the other ends of said springs to the free ends of the compensating bars, and means interposed between the compensating bars and spring linking means whereby the points of effective con-



nection of the springs with the levers is between the door bracket pivot and the door when the door is in both vertical and horizontal positions.

---

**2,388,655**
**SAW FRAME**
**Kurt H. Lenk, Worcester, Mass., assignor to Parker Manufacturing Company, Worcester, Mass., a corporation of Massachusetts**
**Application March 4, 1944, Serial No. 525,046**
**2 Claims. (Cl. 145—33)**



1. A saw frame comprising a main portion having spaced flanges, an arm pivoted between said flanges and having a portion projecting therefrom provided with means for anchoring a blade, a member also pivoted between said flanges and having an operating portion projecting therefrom, said member having an eccentric edge portion opposing the edge of the upper portion of said arm to cam the same to blade-tensioning position, said arm and member one carrying a retractible bolt and the other a cooperating keeper in the zone of said opposed edge portions for interlocking engagement when the cam brings the arm to blade-tensioning position.

---

**2,388,656**
**PAINT COMPOSITIONS**
**Joy G. Lichty, Stow, and Nelson V. Seeger, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application February 2, 1943, Serial No. 474,490**
**4 Claims. (Cl. 260—734)**

1. A paint or coating composition comprising a solution of a condensation derivative of rubber, a drying oil and a small amount of an organic diisocyanate.



**2,388,657**
**PREPARATION OF ACID CHLORIDES**
**John R. Long, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application April 15, 1943, Serial No. 483,179**
**10 Claims. (Cl. 260—544)**

1. A method of preparing alpha, beta unsaturated acid halides which comprises heating the corresponding halogenated acid halide from the group consisting of chlorinated acid halides and brominated acid halides with a catalytic amount of a catalyst from the group consisting of tertiary amines and the salts thereof, removing the liberated hydrogen halide from the reaction mass and then separating the unsaturated acid halide from the reaction mass.

---

**2,388,658**
**BOLT**
**Walter H. Pumphrey, New York, N. Y., assignor of one-half to Eugene J. Cantin, New York, N. Y.**
**Application January 1, 1944, Serial No. 516,653**
**9 Claims. (Cl. 85—9)**



1. A bolt, insertable head-first in an opening of a structural member, accessible from one side only of the member, to secure the bolt in forced fit relation in the opening, consisting of a suitable head formation that extends beyond the neck of the bolt transversely of the axis thereof, the neck adjoining the head having a cross-sectional form suitable for providing a major dimension of certain thickness between two of its opposite sides and a minor dimension of less thickness at right angles to the major dimension between its other two sides, and a threaded shank formed as a continuation of the neck, the cross-sectional form of the bolt head and neck being such as to freely enter and pass through the opening in the member and upon being thereafter turned through a partial revolution, the bolt head, as thus repositioned, spans the opening in the member and the neck of the bolt is relatively aligned to re-enter the opening with its major dimension becoming forcibly jammed therein as the bolt is partially withdrawn by applied pressure to seat the head solidly against the inner side of said member.

---

**2,388,659**
**MANUFACTURE OF PIGMENTS**
**Lonnie W. Ryan, Westfield, N. J., and Herbert L. Sanders, New York, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio**
**No Drawing. Application July 12, 1943, Serial No. 494,374**
**9 Claims. (Cl. 23—200)**

1. A process for the manufacture of hydrated iron oxide pigments, which comprises precipitating hydrated ferric oxide from a ferrous salt solution in the presence of a previously prepared seed slurry of hydrated ferric oxide having goethite crystal structure and a particle size substantially less than that of the precipitated pigment, while maintaining such conditions that a ferrous hydroxide precipitate cannot be formed.

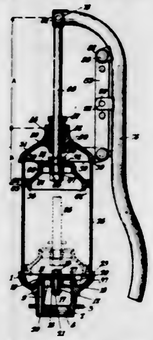
**2,388,660**
**PROPIOLYL HALIDES AND A METHOD OF MAKING THEM**
**Frederic C. Schaefer, Greenwich, Conn., assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application January 29, 1944, Serial No. 520,323**
**4 Claims. (Cl. 260—544)**

3. The class of propiolyl halides consisting of the chloride, bromide, and iodide.

---

**2,388,661**
**PUMP**
**Joseph C. Woodford, Spring Lake, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware**
**Application January 9, 1945, Serial No. 572,019**
**3 Claims. (Cl. 103—178)**

1. A piston for a fluid pump wherein the piston is arranged to be reciprocated in a cylinder by means of a manually operated lever handle connected to the piston rod comprising an upper reduced portion having a valve seat formed at the upper part thereof; an intermediate piston skirt of the general configuration of a truncated cone; and a lower flange portion provided with



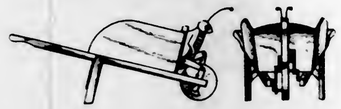
means for forming a seal between said piston and the wall of said cylinder.

---

# DESIGNS

NOVEMBER 6, 1945

**142,762**
**DESIGN FOR A TOY WHEELBARROW**
**Howard D. Allen, Los Angeles, Calif.**
**Application May 25, 1945, Serial No. 119,734**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a toy wheelbarrow, as shown.

---

**142,763**
**DESIGN FOR A TOY WHEELBARROW**
**Howard D. Allen, Los Angeles, Calif.**
**Application May 25, 1945, Serial No. 119,735**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a toy wheelbarrow, as shown.

---

**142,764**
**DESIGN FOR A TOY WHEELBARROW**
**Howard D. Allen, Los Angeles, Calif.**
**Application May 25, 1945, Serial No. 119,736**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a toy wheelbarrow, as shown.

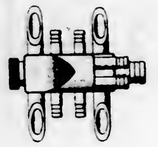
---

**142,765**
**DESIGN FOR A TOY WHEELBARROW**
**Howard D. Allen, Los Angeles, Calif.**
**Application May 25, 1945, Serial No. 119,737**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a toy wheelbarrow, as shown.

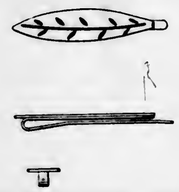
**142,766**
**DESIGN FOR A MILKING MACHINE CLAW**
**Gustave A. Anderson, Chicago, Ill.**
**Application March 12, 1945, Serial No. 118,436**
**Term of patent 14 years**
**(Cl. D23—1)**



The ornamental design for a milking machine claw, substantially as shown.

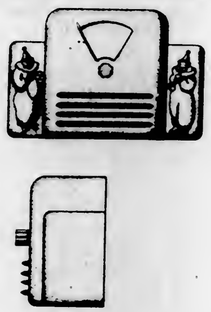
---

**142,767**
**DESIGN FOR A HAIR ORNAMENT**
**Max Antritter, Leicester, Mass., assignor to Haskins Manufacturing Co., Rochdale, Mass., a corporation of Massachusetts**
**Application June 23, 1945, Serial No. 120,313**
**Term of patent 3½ years**
**(Cl. D86—10)**



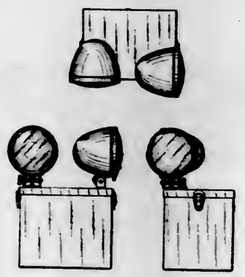
The ornamental design for a hair ornament, as shown.

142,768
**DESIGN FOR A MUSIC CABINET**
Herman Batlin, New York, N. Y.
Application June 18, 1945, Serial No. 120,183
Term of patent 3½ years
(Cl. D56—4)



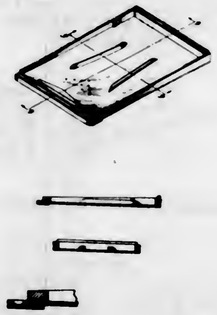
The ornamental design for a music cabinet, substantially as shown and described.

142,769
**DESIGN FOR AN AUTOMATIC EMERGENCY LIGHTING UNIT OR SIMILAR ARTICLE**
Harold S. Bird, Belmont, Mass.
Application May 11, 1945, Serial No. 119,490
Term of patent 14 years
(Cl. D48—24)



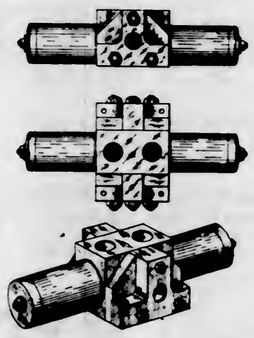
The ornamental design for an automatic emergency lighting unit or similar article, substantially as shown.

142,770
**DESIGN FOR A BOWLING GAME BOARD**
Rudolf F. Boening, Valparaiso, Ind.
Application February 5, 1945, Serial No. 117,761
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a bowling game board, as shown.

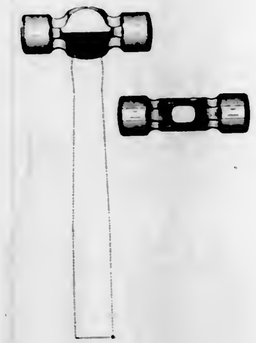
142,771
**DESIGN FOR A HOUSING FOR A SOLENOID OPERATED VALVE**
Harvey Graves Chapman, Jr., Glendale, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application September 23, 1944, Serial No. 115,424
Term of patent 14 years
(Cl. D78—1)



The ornamental design for a housing for a solenoid operated valve, as shown.

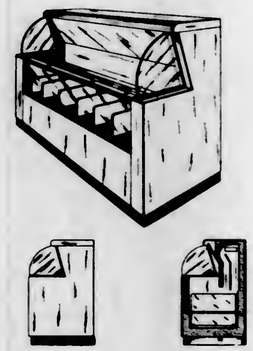


142,772
**DESIGN FOR A HAMMER**
George Douglas Cline, Jr., Detroit, Mich., assignor to Heller Brothers Company, Newark, N. J., a corporation of New Jersey
Application December 12, 1944, Serial No. 116,857
Term of patent 14 years
(Cl. D93—4)



The ornamental design for a hammer, as shown.

142,773
**DESIGN FOR A REFRIGERATED DISPLAY CASE**
Russell E. Davis, St. Louis, Mo., assignor to Hussmann-Ligonier Company, St. Louis, Mo., a corporation of Delaware
Application June 4, 1945, Serial No. 119,881
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a refrigerated display case, as shown.

142,774
**DESIGN FOR A DISPLAY PLATE FOR AUTOMOBILES**
Harold E. Dice, Canton, Ohio
Substituted for design application Serial No. 106,014, February 27, 1942. This application January 13, 1945, Serial No. 117,401
Term of patent 14 years
(Cl. D14—6)



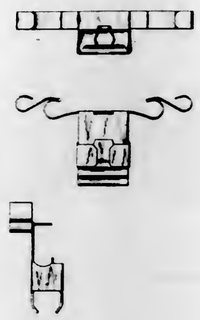

The ornamental design for a display plate for automobiles, as shown and described.

142,775
**DESIGN FOR A MEMORANDUM NOTE PAD UNIT**
Leo di Rebaylio, Culver City, Calif.
Application December 18, 1944, Serial No. 116,992
Term of patent 7 years
(Cl. D74—1)



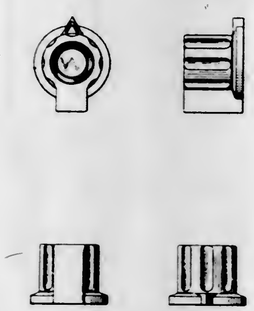

The ornamental design for a memorandum note pad unit, as shown.

142,776
**DESIGN FOR A COMBINED PIPE RACK AND MATCH HOLDER**
William H. J. Downey, Wilmington, Del.
Application July 7, 1945, Serial No. 120,554
Term of patent 7 years
(Cl. D85—2)



The ornamental design for a combined pipe rack and match holder, substantially as shown.

142,777
**DESIGN FOR A CONTROL KNOB OR SIMILAR ARTICLE**
Melville Eastham, Cambridge, Mass., assignor to General Radio Company, Cambridge, Mass., a corporation of Massachusetts
Application December 6, 1944, Serial No. 116,746
Term of patent 14 years
(Cl. D26—1)



The ornamental design for a control knob or similar article, substantially as shown.

142,778
**DESIGN FOR A BOTTLE**
Hugh Genske, Philadelphia, Pa., assignor to Sunset, Incorporated, Chicago, Ill., a corporation of Illinois
Application July 14, 1945, Serial No. 120,694
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, as shown.

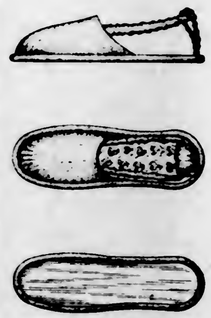
142,779
**DESIGN FOR A DRESS**
Zelma Golden, New York, N. Y.
Application August 6, 1945, Serial No. 121,237
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

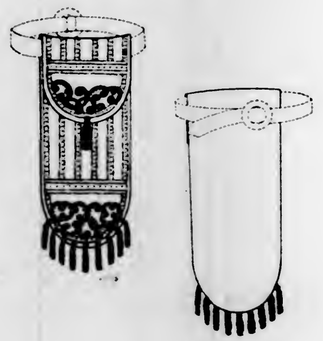


142,780
**DESIGN FOR A BOUDOIR SLIPPER**
Stella M. Groff, Santa Ana, Calif.
Application February 28, 1945, Serial No. 118,185
Term of patent 7 years
(Cl. D7—7)



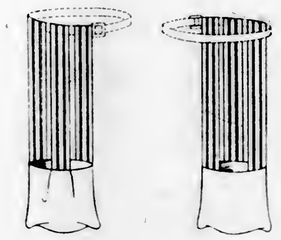
The ornamental design for a boudoir slipper, as shown.

142,781
**DESIGN FOR A COMBINED BELT AND PURSE**
Eta Hentz, New York, N. Y.
Application July 17, 1945, Serial No. 120,745
Term of patent 3½ years
(Cl. D13—10)



The ornamental design for a combined belt and purse, substantially as shown and described.

142,782
**DESIGN FOR A COMBINED BELT AND PURSE**
Eta Hentz, New York, N. Y.
Application July 17, 1945, Serial No. 120,746
Term of patent 3½ years
(Cl. D3—10)



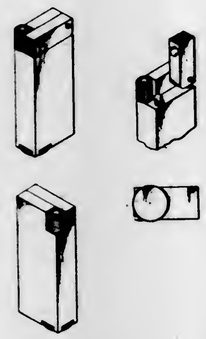
The ornamental design for a combined belt and purse, substantially as shown and described.

142,783
**DESIGN FOR A BOTTLE CARRIER**
Alfred M. Jacobson, Houston, Tex.
Application June 30, 1945, Serial No. 120,445
Term of patent 7 years
(Cl. D58—4)



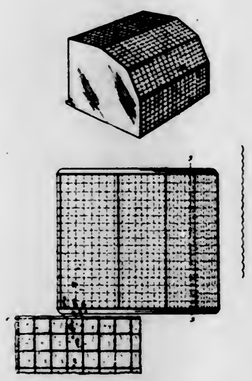
The ornamental design for a bottle carrier, substantially as shown.

142,784
**DESIGN FOR A CIGARETTE LIGHTER**
Dwight C. Jones, Whittier, Calif., assignor to Zephyr Manufacturing Co., Inglewood, Calif., a copartnership
Application July 9, 1945, Serial No. 120,575
Term of patent 3½ years
(Cl. D48—27)



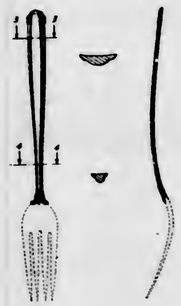
The ornamental design for a cigarette lighter, as shown.

142,785
**DESIGN FOR A CARRIAGE HOOD**
Samuel Kroll and Nathan J. Kroll, Chicago, Ill.
Application May 22, 1944, Serial No. 113,707
Term of patent 7 years
(Cl. D14—27)



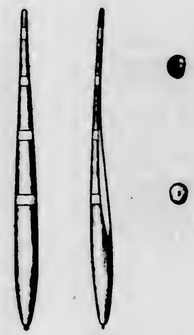
The ornamental design for a carriage hood, as shown and described.

142,786
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
Isidore Albert Lipman, Meriden, Conn., assignor to The Elmore Silver Company, Inc., Meriden, Conn., a corporation of Connecticut
Application June 18, 1945, Serial No. 120,195
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a fork or other article of flatware, substantially as shown and described.

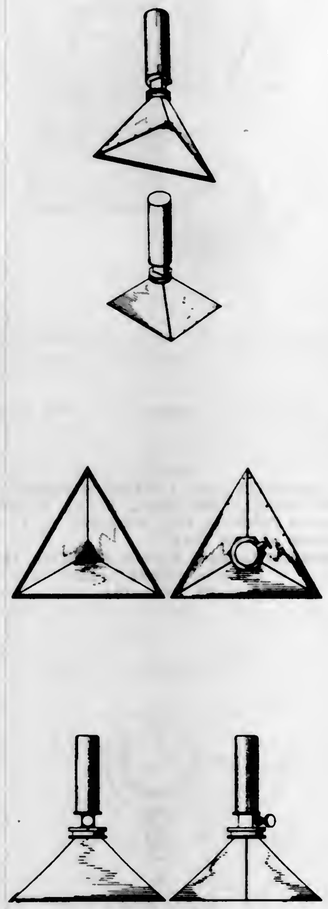
142,787
**DESIGN FOR A FISHING FLOAT**
Gerald M. Marsh, Liberty Mo.
Application July 12, 1945, Serial No. 120,657
Term of patent 14 years
(Cl. D31—4)



The ornamental design for a fishing float, as shown.

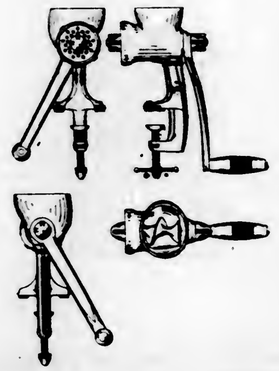


142,788
**DESIGN FOR A CORNER MARKER**
Jessie R. Matthews and William A. Davidson, Norfolk, Va., assignors of seventeen one-hundredths to P. H. Mason, seventeen one-hundredths to W. D. Mason, and seventeen one-hundredths to J. H. Mason, all of Norfolk, Va.
Application March 29, 1945, Serial No. 118,766
Term of patent 3½ years
(Cl. D64—10)



The ornamental design for a corner marker, as shown.

142,789
**DESIGN FOR A FOOD CHOPPER**
David Paplin, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut
Application June 2, 1945, Serial No. 119,869
Term of patent 14 years
(Cl. D89—1)



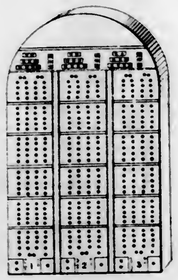
The ornamental design for a food chopper, substantially as shown.

142,790
**DESIGN FOR A GAME BOARD**
Cargill W. Redpath, Kansas City, Mo.
Application June 4, 1945, Serial No. 119,899
Term of patent 14 years
(Cl. D34—5)



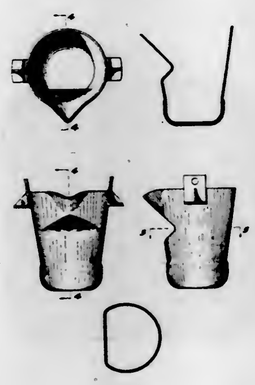
The ornamental design for a game board, substantially as shown.

142,791
**DESIGN FOR A CRIBBAGE BOARD**
Charles R. Reeves, Detroit, Mich.
Application May 21, 1945, Serial No. 119,661
Term of patent 14 years
(Cl. D34—5)



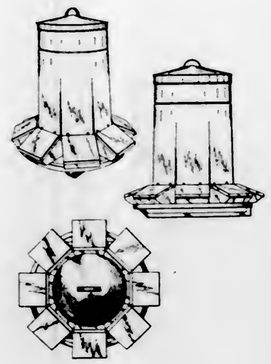
The ornamental design for a cribbage board, substantially as shown.

142,792
**DESIGN FOR A CRUCIBLE OR SIMILAR ARTICLE**
John J. Ripich, Cleveland, Ohio
Application May 28, 1945, Serial No. 119,779
Term of patent 14 years
(Cl. D54—1)



The ornamental design for a crucible or similar article, as shown.

142,793
**DESIGN FOR A HOG FEEDER**
Gerhard L. Running and Ernest V. La Salle, Minneapolis, Minn.
Application June 6, 1945, Serial No. 119,939
Term of patent 14 years
(Cl. D12—2)



The ornamental design for a hog feeder, as shown.

142,794
**DESIGN FOR A HAND MIRROR**
Morris Salinger, Brooklyn, N. Y., assignor to Duranol Products, Inc., Brooklyn, N. Y., a corporation of New York
Application January 5, 1945, Serial No. 117,267
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a hand mirror, substantially as shown and described.

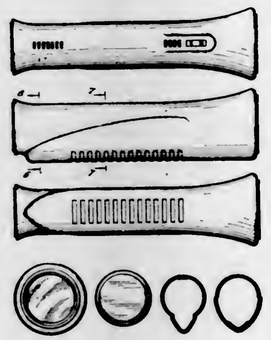


142,795
**DESIGN FOR AN INSULATED CONTAINER FOR BOTTLES**
Peter Schlumbohm, New York, N. Y.
Application April 23, 1945, Serial No. 119,154
Term of patent 14 years
(Cl. D58—8)



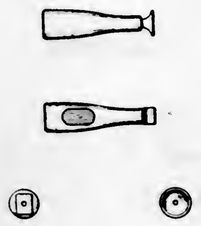
The ornamental design for an insulated container for bottles, as shown.

142,796
**DESIGN FOR A FLASHLIGHT**
Earl L. Schofield, Rockford, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application March 8, 1945, Serial No. 118,341
Term of patent 14 years
(Cl. D48—24)



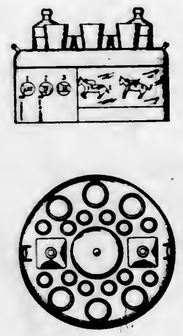
The ornamental design for a flashlight, as shown.

142,797
**DESIGN FOR A CIGAR AND CIGARETTE HOLDER**
William Clark Taylor, Washington, D. C.
Application September 21, 1944, Serial No. 115,388
Term of patent 14 years
(Cl. D85—8)



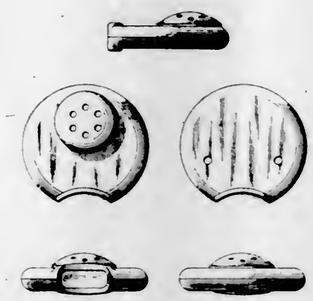
The ornamental design for a cigar and cigarette holder, as shown and described.

142,798
**DESIGN FOR A COMBINED SERVING TRAY, RECEPTACLE, AND GAME DEVICE**
Eldridge B. Taylor, Cleveland, Ohio
Application March 9, 1945, Serial No. 118,378
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a combined serving tray, receptacle, and game device, substantially as shown and described.

142,799
**DESIGN FOR A KAZOO**
Josephus Thompson, Covington, Ohio, assignor of one-third to Grossman Music Company, Cleveland, Ohio, a partnership composed of Julius I. Grossman and Henry S. Grossman
Application May 25, 1945, Serial No. 119,724
Term of patent 14 years
(Cl. D56—1)



The ornamental design for a kazoo, substantially as shown.

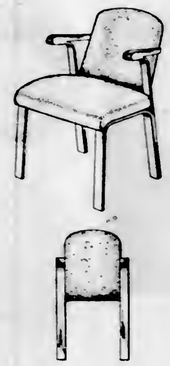
---

142,800
**DESIGN FOR A CHAIR SEAT-BACK UNIT**
Robert C. Watson, Bryn Mawr, Pa., assignor to Vidal Corporation, Camden, N. J., a corporation of Delaware
Application March 8, 1945, Serial No. 118,334
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair seat-back unit, as shown.

142,801
**DESIGN FOR A CHAIR OR SIMILAR ARTICLE**
Bruno R. Weill, Statesville, N. C., assignor to Thonet Brothers, Inc., New York, N. Y.
Application July 9, 1945, Serial No. 120,504
Term of patent 7 years
(Cl. D15—1)



The ornamental design for a chair or similar article, as shown.

---

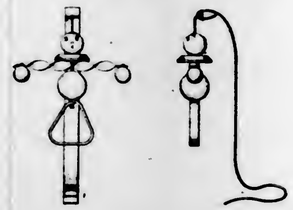
142,802
**DESIGN FOR A CHAIR OR SIMILAR ARTICLE**
Bruno R. Weill, Statesville, N. C., assignor to Thonet Brothers, Inc., New York, N. Y.
Application July 9, 1945, Serial No. 120,595
Term of patent 7 years
(Cl. D15—1)



The ornamental design for a chair or similar article, as shown.



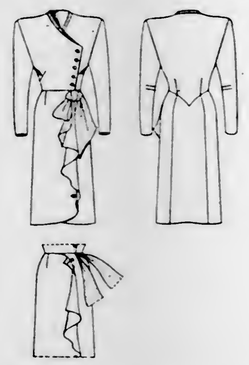
142,803
**DESIGN FOR A TOY OR SIMILAR ARTICLE**
George Winston and Albert B. Sawyer, Brooklyn, N. Y., assignors to Plastic Treasures Inc., New York, N. Y.
Application July 3, 1945, Serial No. 120,500
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a toy or similar article, as shown.

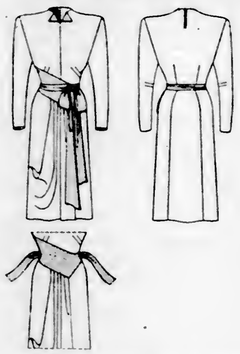
---

142,804
**DESIGN FOR A DRESS**
Samuel Zahn, New York, N. Y.
Application August 6, 1945, Serial No. 121,233
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

142,805
**DESIGN FOR A DRESS**
Samuel Zahn, New York, N. Y.
Application August 6, 1945, Serial No. 121,234
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

---

142,806
**DESIGN FOR A GLOVE**
Charles E. Zimmerman, Chicago, Ill.
Application July 11, 1945, Serial No. 120,651
Term of patent 3½ years
(Cl. D3—11)



The ornamental design for a glove, substantially as shown.

Patents Nos. 2,388,662 to 2,389,114

# THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 580—No. 2 TUESDAY, NOVEMBER 13, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $14.00 per annum, including annual index, $18.75; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

## CONTENTS

| | Page |
|---|---|
| Issue of November 13, 1945 | 153 |
| Notices | 153 |
| Erratum | 153 |
| Disclaimers | 153 |
| Adjudicated Patents | 153 |
| Applications Under Examination | 154 |
| Decisions of the U. S. Courts— | |
| In re Heritage | 155 |
| In re Rockwell | 156 |
| Chandler v. Mock | 159 |
| In re Kuhn et al | 164 |
| Patent Suits | 165 |
| Register of Patents Available for Licensing or Sale | 167 |
| Notice | 168 |
| Trade-Marks Published (108 Applications) | 169 |
| Trade-Mark Registrations Granted | 182 |
| Reissues | 191 |
| Patents Granted | 192 |
| Designs | 205 |

### November 13, 1945

| | | | |
|---|---|---|---|
| Trade-Marks | 120—No. | 417,679 to No. | 417,817, inclusive. |
| Reissues | 2—No. | 22,691 to No. | 22,692, inclusive. |
| Patents | 422—No. | 2,388,693 to No. | 2,389,114, inclusive. |
| Designs | 172—No. | 142,867 to No. | 142,938, inclusive. |
| Total | 716 | | |

## Notices

When coupons are used in ordering printed copies of patents each one must bear, in addition to patent number, the name and address of the person to whom the copies are to be mailed. When ordering printed copies of patents, by letter, be sure to list them in numerical order.

---

The Director of Foreign Funds Control, Treasury Department, has advised this Office, under date of October 23, 1945, that, so far as Executive Order No. 8389, dated April 10, 1940 (5 F. R. 1677) as amended, and Treasury Department General Ruling No. 11A, dated May 15, 1945 (10 F. R. 5573) are concerned, accounts held by the Patent Office on behalf of nationals of blocked countries may be debited for the purpose of paying for material and services furnished by it, provided that no debit is made to an account in which an enemy national, as defined in Treasury Department General Ruling No. 11, dated March 18, 1942 (7 F. R. 2119) has an interest.

CONDER C. HENRY,
*Assistant Commissioner.*

## Erratum

In the Official Gazette for October 9, 1945, page 176, second column thereof, Trade-Mark Renewal 207,150, name of registrant, for "Oakli, Incorporated" read *Orbil, Incorporated.*

## Disclaimers

Des. 138,257.—*William Burton*, Chicago, Ill. Wallpaper Border or Similar Article. Patent dated July 11, 1944. Disclaimer filed Oct. 11, 1945, by the inventor and the assignee, *United Wall Paper Factories, Inc.*

Hereby enters this disclaimer to the claim in said specification.

---

2,277,431.—*Raymond L. Fitch*, Buffalo, N. Y. Magnetic Inspection Apparatus. Patent dated Mar. 24, 1942. Disclaimer filed Oct. 1, 1945, by the inventor.

Hereby disclaims as his invention the subject matter recited by claims 3, 4, and 7.

---

2,355,120.—*Carl E. Tack*, Chicago, Ill. Rotor Brake. Patent dated Aug. 8, 1944. Disclaimer filed Oct. 17, 1945, by the assignee, *American Steel Foundries.*

Hereby disclaims from the scope of claims 18 and 19 of said specification any brake arrangement except that wherein the actuating lever has integral means for engagement with the links at the pivot of the toggle.

---

2,362,294.—*Albert H. Mittag*, Schenectady, N. Y. Electric Control Circuit. Patent dated Nov. 7, 1944. Disclaimer filed Oct. 9, 1945, by the assignee, *General Electric Company.*

Hereby enters this disclaimer of claim 12 of said patent.

## Adjudicated Patents

(D. C. Ill.) Drew Patent, No. 2,177,627, for adhesive sheeting, claims 4, 5, 6, 8, 10, 11, 15, and 16 *Held* valid and infringed. *Minnesota Mining & Manufacturing Company* v. *International Plastic Corp.*, 62 F. Supp. 34; 66 USPQ 83.

(C. C. A. N. Y.) Musher patent, No. 2,221,404, for treatment of glyceride oils, claims 1 and 2 *Held* valid and infringed. *Musher Foundation* v. *Alba Trading Co.*, 150 F.(2d) 885; 66 USPQ 183.

(D. C. Conn.) McGuns reissue patent, No. 22,397, for application of spray metal to metal surfaces, claims 1 to 7 and 11 *Held* valid and infringed; claims 8 to 10 *Held* valid but not infringed. *Metallizing Engineering Co.* v. *Kenyon Bearing and Auto Parts Co.*, 62 F. Supp 42; 65 USPQ 344.

## Condition of Applications Under Examination at Close of Business October 26, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,889; Trade-Mark Division, 2,843. Oldest new case, October 12, 1944; oldest amended, October 20, 1944.)
(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application awaiting office action | Oldest amended application awaiting office action | No. of applications awaiting action |
|---|---|---|---|
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 1 | Jan. 1 | 1216 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Oct. 26 | †Nov. 9 | 1426 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 4 | Jan. 1 | 1305 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | †Dec. 29 | Mar. 27 | 1170 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Oct. 20 | †Oct. 20 | 1952 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Jan. 19 | Feb. 26 | 1318 |
| 7. JARBOE, C. G., Optics, Photography | May 11 | May 11 | 1085 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 15 | Mar. 21 | 1233 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 4 | 1351 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 9 | June 2 | 367 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Nov. 11 | †Nov. 25 | 1394 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning | Jan. 24 | Mar. 9 | 1145 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Mar. 20 | Mar. 26 | 878 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | Mar. 21 | Apr. 19 | 919 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 10 | Mar. 16 | 884 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | †Dec. 6 | †Dec. 20 | 711 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 5 | Jan. 4 | 1267 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Feb. 3 | Jan. 24 | 786 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Feb. 28 | Mar. 1 | 865 |
| 21. THOMPSON, T. J., Textiles | Apr. 4 | May 5 | 554 |
| 22. CARPENTER, B. H., Armaments; Firearms; Ordnance | Feb. 26 | Feb. 28 | 1230 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 9 | 185 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 4 | Mar. 14 | 572 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Jan. 31 | Feb. 12 | 1088 |
| 26. YOUNG, E. R., Electricity—Generation and Motive Power | †Nov. 30 | †Dec. 1 | 1307 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Nov. 16 | 1226 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Nov. 17 | †Nov. 14 | 1058 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools. | †Dec. 21 | †Dec. 21 | 1264 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 8 | Feb. 8 | 1331 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | June 8 | June 5 | 865 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Mar. 31 | Apr. 7 | 1006 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 6 | Feb. 12 | 1267 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 5 | Feb. 19 | 715 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | †Dec. 21 | Jan. 25 | 1094 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Feb. 15 | Feb. 21 | 849 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | †Dec. 7 | †Dec. 6 | 1261 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Jan. 6 | Jan. 2 | 955 |
| 39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 4 | Jan. 5 | 1391 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 5 | Feb. 8 | 1549 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 887 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Feb. 28 | Mar. 27 | 996 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 12 | Jan. 4 | 809 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Oct. 27 | †Oct. 22 | 720 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Jan. 5 | Jan. 29 | 1400 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | Jan. 11 | †Dec. 21 | 819 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Mar. 26 | Apr. 9 | 1312 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | †Dec. 26 | †Dec. 21 | 1262 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Mar. 10 | Apr. 2 | 728 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 1 | Mar. 3 | 1517 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Jan. 16 | Jan. 20 | 2075 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 1 | Feb. 2 | 1771 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Oct. 24 | †Nov. 30 | 1408 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 12 | †Nov. 8 | 1492 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 9 | Mar. 8 | 940 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | †Dec. 12 | †Dec. 10 | 1095 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 4 | †Dec. 5 | 1241 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 23 | Apr. 27 | 726 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 8 | †Dec. 7 | 1441 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 1 | Jan. 1 | 1248 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 12 | Feb. 6 | 121 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Nov. 29 | †Nov. 24 | 2022 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 15 | Jan. 8 | 1610 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | June 27 | June 26 | 842 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Nov. 17 | †Nov. 17 | 1445 |
| Trade-Marks: RICHMOND, F. A. | July 2 | Aug. 14 | 2842 |
| Designs: KALUPY, H. H | July 13 | Aug. 24 | 1898 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Multiple vitamin preparation. Serial No. 486,236; Nov. 13. Class 6.

Acme Chemical Company: *See*—
Dobkin, Israel.

Alburton Company, Inc., Boston, Mass. Shoe fabrics. Serial No. 483,949; Nov. 13. Class 42.

Al-Fin Corporation, New York, N. Y. Bimetallic articles. Serial No. 467,709; Nov. 13. Class 23.

Aluminum Goods Mfg. Co., Manitowoc, Wis. Toy cooking and baking utensils, tea sets and sand sets, etc. Serial No. 487,026; Nov. 13. Class 22.

American Girl Shoe Co., Boston, Mass. Shoes. Serial No. 485,187; Nov. 13. Class 39.

Anchor Hocking Glass Corporation, Lancaster, Ohio. Glass articles. Serial No. 483,015; Nov. 13. Class 33.

Arnold Plastic Co., Toledo, Ohio. Synthetic plastics in granular, sheet tube and rod form. Serial No. 482,667; Nov. 13. Class 1.

Associated Products, Inc., Chicago, Ill. Nail lacquer, nail polish, and creams for the face and hands, etc. Serial No. 484,383; Nov. 13. Class 6.

Associated Products, Inc., Chicago, Ill. Hand lotions, creams for the hands and face, etc. Serial No. 484,385; Nov. 13. Class 6.

Athletic Shoe Company, Chicago, Ill. Shoes. Serial No. 484,387; Nov. 13. Class 39.

Atlas Powder Company, Wilmington, Del. Lacquers and stains. Serial No. 485,488; Nov. 13. Class 16.

Barclay Hat Co., Cleveland, Ohio. Men's and boys' hats and caps. Serial No. 484,077; Nov. 13. Class 39.

Batteiger, Henry W., doing business as Fount-Hope Mineral Water, Evansville, Ind. Mineral water. Serial No. 485,900; Nov. 13. Class 45.

Beaver Gear Works, Inc., Rockford, Ill. Precision gears. Serial No. 481,691; Nov. 13. Class 23.

Blackhawk Mfg. Co., Milwaukee, Wis. Wrenches and wrench sets. Serial No. 482,460; Nov. 13. Class 23.

Bradford Dyeing Association (U. S. A.), Westerly, R. I. Piece goods of rayon and wool, and of rayon, cotton, etc. Serial Nos. 484,228–34; Nov. 13. Class 42.

Bristol-Myers Company, New York, N. Y. Shaving cream. Serial No. 480,559; Nov. 13. Class 4.

Carrier Corporation, Syracuse, N. Y. Domestic refrigerators, frozen food storage units, food freezing units, etc. Serial No. 487,307; Nov. 13. Class 31.

Charles of the Ritz, Inc., New York, N. Y. Eye shadow. Serial No. 485,198; Nov. 13. Class 6.

Cohen, Sue S., doing business under the name of Sue-Sets, New York, N. Y. Aprons. Serial No. 480,163; Class 39.

Damus, Shibil S., doing business as United Citrus Growers, Colton, Calif. Fresh citrus fruits. Serial No. 483,607; Nov. 13. Class 46.

Dew-Freeze Co.: *See*—
Woodworth, Harry A.

Dobkin, Israel, doing business as Acme Chemical Company, Pittsburgh, Pa. Combined door check and deodorant diffuser and deodorant cartridge for use therein. Serial No. 485,203; Nov. 13. Class 13.

Douglas Aircraft Company, Inc., Santa Monica, Calif. Periodicals published in the interests of industrial and public relations. Serial No. 473,881; Nov. 13. Class 38.

Dunhill, Alfred of London, Inc., New York, N. Y. Tobacco jars. Serial No. 470,372; Nov. 13. Class 8.

Dunn & Richolt Company, Tujunga, Calif. Children's toilet chairs. Serial No. 482,735; Nov. 13. Class 32.

Edward Valve & Manufacturing Co., Inc., The, East Chicago, Ind. Valves and parts of valves. Serial No. 485,333; Nov. 13. Class 13.

Electric Boat Company, Bayonne, N. J. Wheeled golf-bag carriers. Serial No. 473,848; Nov. 13. Class 22.

40-Fathom Fish, Inc., New York, N. Y. Fish and shellfish products. Serial No. 485,494; Nov. 13. Class 46.

Fount-Hope Mineral Water: *See*—
Batteiger, Henry W.

Frackman, Harry and Ben, New York, N. Y., and Miami Beach, Fla. Finger rings, earrings, bracelets, etc. Serial Nos. 474,537–9; Nov. 13. Class 28.

Friedman, A. I., Company: *See*—
Friedman, Abraham I.

Friedman, Abraham I., doing business as A. I. Friedman Company, New York, N. Y. Periodical dealing with art materials, art literature, and matters of interest to artists. Serial No. 485,991; Nov. 13. Class 38.

G. E. Specialty Co., Brooklyn, N. Y. Floor wax. Serial No. 483,523; Nov. 13. Class 4.

Golden Arrow Toiletries, New York, N. Y. Shaving creams and soaps. Serial No. 485,146; Nov. 13. Class 4.

Gonzalez y Gonzalez, Julio, Habana, Cuba. Cigars. Serial No. 479,339; Nov. 13. Class 17.

Goodrich, B. F. Company, The, New York, N. Y., and Akron, Ohio. Protective skin creams. Serial No. 485,993; Nov. 13. Class 6.

Graebner, Annette, New York, N. Y. Instructive bulletin on letter writing. Serial No. 483,263; Nov. 13. Class 38.

Graflex, Inc., Rochester, N. Y. Photographic lenses. Serial No. 485,081; Nov. 13. Class 26.

Grossman Music Co., Cleveland, Ohio. Brass horns, band instruments, supplies, and reed instruments, etc. Serial No. 487,131; Nov. 13. Class 36.

Hadley, Earl G., Pittsburgh, Pa. Speech formula charts. Serial No. 480,768; Nov. 13. Class 38.

Hiraetra Laboratories, Inc., New York, N. Y. Skin cream. Serial No. 485,728; Nov. 13. Class 6.

Humble Oil & Refining Company, Houston, Tex. Cutting oils. Serial No. 487,132; Nov. 13. Class 15.

Independent Foundry Supply Co.: *See*—
Mocsny, Steven.

International Association of Lions Clubs, Chicago, Ill. Emblems, lapel buttons, charms, and lapel pins. Serial No. 475,428; Nov. 13. Class 28.

International Lubricant Corporation, New Orleans, La. Lubricating oils and greases. Serial No. 486,951; Nov. 13. Class 15.

Ivers-Lee Company, Newark, N. J. Merchandise envelopes. Serial No. 487,734; Nov. 13. Class 2.

J. & S. Tool Co., East Orange, N. J. Radii and angle dressers. Serial No. 482,158; Nov. 13. Class 23.

Jelke, John F., Company, Chicago, Ill. Oleomargarine. Serial No. 486,779; Nov. 13. Class 46.

Jelke, John F., Company, Chicago, Ill. Oleomargarine. Serial No. 486,791; Nov. 13. Class 46.

Kelley-Clarke Company, Seattle, Wash. Canned fish. Serial No. 486,308; Nov. 13. Class 46.

Kelley-Clarke Company, Seattle, Wash. Canned salmon, crab, shrimp, oysters, and tuna. Serial No. 486,312; Nov. 13. Class 46.

Kelley-Clarke Company, Seattle, Wash. Canned fish. Serial No. 486,313; Nov. 13. Class 46.

Ladie-Lassie Frock Co., New York, N. Y. Women's, misses', and girls' cotton dresses. Serial No. 479,800; Nov. 13. Class 39.

Leach, Raymond A., West Los Angeles, Calif. Dispensing machine, automatically operated by devices used to register sales or attendance. Serial No. 472,981; Nov. 13. Class 23.

Leese, Pearl, New York, N. Y. Perfumes, perfume extracts, toilet water, etc. Serial No. 472,873; Nov. 13. Class 6.

Lorain Products Corporation, Lorain, Ohio. Battery chargers. Serial No. 486,048; Nov. 13. Class 21.

Markay Bags, New York, N. Y. Handbags. Serial No. 487,850; Nov. 13. Class 3.

Mayflower Manufacturing Company, Mineral Wells, Tex. Toilet paper, paper napkins, paper towels, and facial tissues. Serial No. 476,521; Nov. 13. Class 37.

Midwest Dental Mfg. Co.: *See*—
Staunt, Martin.

Mocsny, Steven, doing business as Independent Foundry Supply Co., Los Angeles, Calif. Core and facing binder. Serial No. 481,376; Nov. 13. Class 5.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resin coating compositions in the nature of lacquers and enamels. Serial No. 484,852; Nov. 13. Class 16.

National Steel Cabinet Company, Chicago, Ill. Bathroom medicine cabinets. Serial Nos. 474,494–5; Nov. 13. Class 32.

Ohio Chemical & Mfg. Co., The, Cleveland, Ohio. Explosion-proof lighting fixtures. Serial No. 478,187; Nov. 13. Class 44.

Parents' Institute, Inc., The, New York, N. Y. Magazine on international affairs. Serial No. 487,737; Nov. 13. Class 38.

Parker Shirt Company, New Britain, Conn. Men's, boys', and women's outer shirts. Serial No. 483,334; Nov. 13. Class 39.

Peterson, Charles A., Company, The, Cleveland, Ohio. Shelled edible nuts, raw or salted. Serial No. 474,423; Nov. 13. Class 46.

Ponemah Mills, Taftville, Conn. Rayon fabric goods in the piece. Serial Nos. 485,366–7; Nov. 13. Class 42.

Protecto Products Co., Inc., Pomona, Calif. Paper toilet seat covers. Serial No. 476,697; Nov. 13. Class 38.

Radoff, William, New York, N. Y. Vitamin capsules. Serial No. 482,011; Nov. 13. Class 6.

Rona Company and Rona Pharmacal Co., The: *See*—
Waldman, Harry A.

Seagull Manufacturing Company, Philadelphia, Pa. Men's underwear. Serial No. 485,927; Nov. 13. Class 39.

Silver, Matilda, doing business as Sufix Manufacturing Co., Boston, Mass. Leather slippers. Serial No. 485,247; Nov. 13. Class 39.

Sofna Products, Inc., New York, N. Y. Emulsifying detergent. Serial No. 482,897; Nov. 13. Class 4.

Sonneborn, L., Sons, Inc., New York, N. Y. Liquid softener and lubricant. Serial No. 485,456; Nov. 13. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. Liquid surface active composition. Serial No. 485,457; Nov. 13. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. Paste composition. Serial No. 485,459; Nov. 13. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. Surface active liquid composition. Serial No. 485,461; Nov. 13. Class 6.
Spiegel, Inc., Chicago, Ill. Hunting coats, hunting trousers, hunting caps, etc. Serial No. 485,173; Nov. 13. Class 39.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils and greases. Serial No. 485,665; Nov. 13. Class 15.
Staunt, Martin, doing business as Midwest Dental Mfg. Co., Chicago, Ill. Dental handpieces. Serial No. 483,994; Nov. 13. Class 44.
Stein, Michael R., New York, N. Y. Inflatable or pneumatic pillows and mattresses. Serial No. 486,280; Nov. 13. Class 32.
Stifel, J. L., & Sons, Inc., Wheeling, W. Va. Draperies and curtains. Serial Nos. 487,580–1; Nov. 13. Class 42.
Storjord, Hakon, Brooklyn, N. Y. Medicine. Serial No. 481,385; Nov. 13. Class 6.
Street & Smith Publications, Inc., New York, N. Y. Title for a cartoon, series of cartoons, cartoon strip, etc. Serial No. 471,644; Nov. 13. Class 38.
Sue-Sets: *See*—
Cohen, Sue S.
Sufix Manufacturing Co.: *See*—
Silver, Matilda.
Sun Vacuum Stores, Los Angeles, Calif. Electric vacuum cleaners. Serial Nos. 486,176–7; Nov. 13. Class 21.
Thatcher Manufacturing Company, Elmira, N. Y. Glass bottles. Serial No. 479,156; Nov. 13. Class 33.
Thermoid Company, Trenton, N. J. Rotary hose. Serial No. 487,876; Nov. 13. Class 35.
Thermoid Company, Trenton, N. J. Wire braid hydraulic control and industrial grease hose and rotary hose. Serial No. 487,877; Nov. 13. Class 35.
Tomasello, T. O., Watsonville, Calif. Fresh vegetables. Serial No. 485,378; Nov. 13. Class 46.
United Citrus Growers: *See*—
Damus, Shibli S.
Varner, Edith A., Wichita, Kans. Cannel fruit preserves, sweet relish pickles and horseradish. Serial No. 484,432; Nov. 13. Class 46.
Waldman, Harry A., doing business as The Rona Company and Rona Pharmacal Co., Philadelphia, Pa. Amphetamine sulfate. Serial No. 484,765; Nov. 13. Class 6.
Waldman, Harry A., doing business as The Rona Company and Rona Pharmacal Co., Philadelphia, Pa. Dextro-amphetamine sulfate. Serial No. 484,766; Nov. 13. Class 6.
Ward, William B., doing business as William B. Ward Company, Kansas City, Mo. Cultured extract from skunks. 484,433; Nov. 13. Class 6.
Ward, William B., Company: *See*—
Ward, William B.
Westhafer, Marjorie, Downers Grove, Ill. Boxes and containers. Serial No. 479,451; Nov. 13. Class 37.
Willoform Manufacturing Co., The, New York, N. Y. Girdles, brassières, foundation garments, etc. Serial No. 481,971; Nov. 13. Class 39.
Winkler, M. H., Baton Rouge, La. Bamboo lawn rakes. Serial No. 485,899; Nov. 13. Class 23.
Woodworth, Harry A., doing business as Dew-Freeze Co., St. Louis, Mo. Electrically operated refrigerators. Serial No. 485,741; Nov. 13. Class 31.
Wulff, W. E. Dental Mfg. Co.: *See*—
Wulff, Walter E.
Wulff, Walter E., doing business as W. E. Wulff Dental Mfg. Co., Chicago, Ill. Dental handpieces and accessories therefor. Serial No. 487,880; Nov. 13. Class 44.
Yale & Towne Manufacturing Company, The, Stamford, Conn. Weighing scales Serial No. 483,751; Nov. 13. Class 26.
Yank Legion News, Portland, Oreg. Periodical specifically a newspaper devoted to news of special interest to veterans of World War II. Serial No. 482,515; Nov. 13. Class 38.
Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. Serial No. 487,345; Nov. 13. Class 44.

# LIST OF REGISTRANTS OF TRADE-MARKS

Aacon Contracting Co., Inc., Brooklyn, N. Y. Manufactured wooden cases. 417,817; Nov. 13. Class 2.
Allied Stores Corporation, Wilmington, Del., doing business as "The Bon Marche," Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J., also doing business as Home Furnishings Institute. Curtains, tablecloths, towels, etc. 417,691; Nov. 13; Serial No. 470,252; published Sept. 4, 1945. Class 42.
American Engineering Company, Philadelphia, Pa. Furnace stokers and parts thereof. 417,732; Nov. 13; Serial No. 482,307; published Sept. 4, 1945. Class 34.
American Rock Wool Corp., Wabash, Ind. Heat and sound insulation materials. 417,758; Nov. 13; Serial No. 485,009; published Sept. 4, 1945. Class 12.
Ampco Twist Drill Company, Jackson, Mich. Twist drills, reamers, milling cutters, etc. 417,705; Nov. 13; Class 4.
Serial No. 475,711; published Sept. 4, 1945. Class 23.
Anglo-American Publishing Company Limited, Toronto, Ontario, Canada. Comic strip. 417,698; Nov. 13; Serial No. 473,173; published Aug. 28, 1945. Class 38.
Asco Car Cleaner Company, Norfolk, Va. Specially compounded cleaning preparation. 417,798; Nov. 13. Class 4.
"Automatic" Sprinkler Company of America, Youngstown, Ohio. Deluge sprinkler units, piping, valves, etc. 417,771; Nov. 13. Class 13.
Bardinet, Ltd., New York, N. Y. Apricot flavored brandy. 417,759; Nov. 13; Serial No. 485,258; published Aug. 28, 1945. Class 49.
Bardinet, Ltd., New York, N. Y. Cherry flavored brandy. 417,760; Nov. 13; Serial No. 485,260; published Aug. 28, 1945. Class 49.
Bardinet, Ltd., New York, N. Y. Peach flavored brandy. 417,761; Nov. 13; Serial No. 485,261; published Aug. 28, 1945. Class 49.
Barham, Lee B., Tulsa, Okla. Stomach medicines. 417,796; Nov. 13. Class 6.
Bendel, Henri, Inc., New York, N. Y. Toilet water. 417,809; Nov. 13. Class 6.
"Bon Marche, The": *See*—
Allied Stores Corporation.
Botfield Refractories Company, Philadelphia, Pa. Refractory cement. 417,689; Nov. 13; Serial No. 469,719; published Aug. 28, 1945. Class 12.
Botfield Refractories Company, Philadelphia, Pa. Refractory cement and firebrick. 417,690; Nov. 13; Serial No. 469,720; published Aug. 28, 1945. Class 12.
Boucher Cork Co., Inc., Pisgah Forest, N. C. Cigarette tipping material. 417,768; Nov. 13. Class 8.
Brunswig Drug Company, Los Angeles, Calif. Roach powder. 417,806; Nov. 13. Class 6.
Byford, D., and Co. Limited, Leicester, England. Stockings and socks. 417,700; Nov. 13; Serial No. 474,948; published Aug. 28, 1945. Class 39.
Cadet Creme Company: *See*—
Miller, Adam J.
Cadoux Co., The, New York, N. Y. Ladies' clothing. 417,782; Nov. 13. Class 39.
Carefree Wear Company, St. Louis, Mo. Women's and girls' playsuits, shorts, skirts, etc. 417,738; Nov. 13; Serial No. 482,729; published Aug. 28, 1945. Class 39.
Chad Valley Co. Ltd., The, Birmingham, England. Game. 417,697; Nov. 13; Serial No. 472,179; published Sept. 4, 1945. Class 22.
Chesler, Harry "A", doing business as Harry "A" Chesler Features Syndicate, New York, N. Y. Magazine. 417,712; Nov. 13; Serial No. 478,539; published Aug. 28, 945. Class 38.
Chesler, Harry "A", Features Syndicate: *See*—
Chesler, Harry "A".
Clark, Alice L., Mill Valley, Calif. Dolls. 417,766; Nov. 13; Serial No. 485,400; published Sept. 4, 1945. Class 22.
Cluett, Peabody & Co., Inc., Troy, N. Y. Neckties. 417,716; Nov. 13; Serial No. 479,778; published June 26, 1945. Class 39.
Compañia Cubana de Alcohol, S. A., Santa Cruz del Norte and Habana, Cuba. Rum, gin, whiskey, etc. 417,683; Nov. 13; Serial No. 468,438; published Aug. 28, 1945. Class 49.
Compañia Cubana de Alcohol, S. A., Santa Cruz del Norte and Habana, Cuba. Rum, gin, whiskey, etc. 417,692; Nov. 13; Serial No. 470,489; published Aug. 28, 1945. Class 49.
Compañia Cubana de Alcohol, S. A., Santa Cruz del Norte and Habana, Cuba. Rum, gin, whiskey, brandy, etc. 417,694–5; Nov. 13; Serial Nos. 471,513–14; published Aug. 28, 1945. Class 49.
Conde Nast Publications, Inc., The, New York, N. Y. Monthly general publication. 417,724; Nov. 13; Serial No. 481,361; published Aug. 28, 1945. Class 38.
Cornhall & Malamut, New York, N. Y. Piece goods of cotton, rayon and of mixtures of cotton and rayon. 417,792; Nov. 13. Class 42.
Cummins Perforator, Division of A. S. C. Corporation, Chicago, Ill. Cancelling machines, perforating machines, validating machines, etc. 417,693; Nov. 13; Serial No. 471,249; published Aug. 28, 1945. Class 23.



Dawer, Sig, & Co., New York, N. Y. Non-precious necklaces, chokers, earrings, etc. 417,811; Nov. 13. Class 28.
Dey Brothers & Company: *See*—
Allied Stores Corporation.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 417,733; Nov. 13; Serial No. 482,312; published Sept. 4, 1945. Class 12.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 417,734; Nov. 13; Serial No. 482,315; published Sept. 4, 1945. Class 12.
Driver, Wilbur B., Company, Newark, N. J. Wire, rod and strip formed of non-ferrous metallic alloys. 417,750; Nov. 13; Serial No. 484,047; published Aug. 28, 1945. Class 21.
Enterprise Engine & Foundry Co., San Francisco, Calif. Marine and stationary Diesel engines and process machinery. 417,731; Nov. 13; Serial No. 482,275; published Aug. 28, 1945. Class 23.
Essick Manufacturing Company, Los Angeles, Calif. Gas and oil operated air conditioning and heating units. 417,696; Nov. 13; Serial No. 471,898; published Aug. 28, 1945. Class 34.
Exactone Tool and Die Company, Los Angeles, Calif. Sanding drums for sanding machines. 417,714; Nov. 13; Serial No. 479,510; published Aug. 28, 1945. Class 23.
Federated Fashions, Inc., New York, N. Y. Doll millinery kits. 417,727; Nov. 13; Serial No. 481,739; published Sept. 4, 1945. Class 22.
Fleischer, Hans, New York, doing business as Hasley Products, Ozone Park, N. Y. Laxative herb tea. 417,772; Nov. 13. Class 6.
Fluorescent Corporation of America, Cleveland, Ohio. Domestic, commercial and industrial electrical lighting fixtures and fluorescent tubes. 417,702; Nov. 13; Serial No. 475,040; published Aug. 28, 1945. Class 21.
Foster, A. P., Co.: *See*—
Foster, Arnot P.
Foster, Arnot P., doing business as A. P. Foster Co., Lockland, Ohio. Sealed electrical transformer cases. 417,730; Nov. 13; Serial No. 482,200; published Aug. 28, 1945. Class 21.
Fries & Fries, Inc., Cincinnati, Ohio. Syrups, extracts and flavoring compounds. 417,751; Nov. 13; Serial No. 484,397; published Aug. 28, 1945. Class 45.
General Box Company, Chicago, Ill. Corrugated boxes, wooden crates and boxes, etc. 417,757; Nov. 13; Serial No. 484,836; published Sept. 4, 1945. Class 2.
Gihon, H. D., Inc., Trenton, N. J. Golf bags. 417,752; Nov. 13; Serial No. 484,451; published Sept. 4, 1945. Class 22.
Gold, Daniel, Company, New York, N. Y. Juvenile and boys' outer shirts and sunsuits. 417,748; Nov. 13; Serial No. 483,819; published Aug. 28, 1945. Class 39.
Grand Rapids Die and Tool Company: *See*—
Scheffler, Raymond J.
Groswold Ski Company, Inc., The, Denver, Colo. Skis and ski bindings and parts thereof. 417,813; Nov. 13. Class 22.
Hamilton Kent Manufacturing Company, Kent, Ohio. Rubber vibration mounts. 417,722; Nov. 13; Serial No. 480,581; published Sept. 4, 1945. Class 23.
Hasley Products: *See*—
Fleischer, Hans.
Harwell Manufacturing Corporation, South Bend, Ind. Waste baskets, canister sets, bread boxes, etc. 417,735; Nov. 13; Serial No. 482,378; published Sept. 4, 1945. Class 2.
Herbert Manufacturing Company, New York, N. Y. Piece goods of cotton and rayon and mixtures of cotton and rayon. 417,742; Nov. 13; Serial No. 483,427; published Aug. 28, 1945. Class 42.
Herbert Manufacturing Company, New York, N. Y. Piece goods of cotton and rayon and mixtures of cotton and rayon. 417,744; Nov. 13; Serial No. 483,428; published Aug. 28, 1945. Class 42.
Hercules Powder Company, Wilmington, Del. Specially prepared resin for use in soil. 417,715; Nov. 13; Serial No. 479,623; published Sept. 4, 1945. Class 12.
Heribert, Herbert J., New York, N. Y. Adhesive cement. 417,704; Nov. 13; Serial No. 475,425; published Sept. 4, 1945. Class 5.
Hinde & Dauch Paper Company, The, Sandusky, Ohio. Paperboard boxes and cartons. 417,755; Nov. 13; Serial No. 484,743; published Sept. 4, 1945. Class 2.
Hofford, Ellis J., doing business as Hofford Paint & Varnish Co., Carlstadt, N. J. Shellac-like coating material. 417,802; Nov. 13. Class 16.
Hofford Paint & Varnish Co.: *See*—
Hofford, Ellis J.
Holser, Leland, New York, N. Y. Automobiles. 417,682; Nov. 13; Serial No. 463,673; published Aug. 28, 1945. Class 19.
Home Furnishings Institute: *See*—
Allied Stores Corporation.
Horvitz, S., & Sons, Pawtucket, R. I. Sisal padding. 417,736; Nov. 13; Serial No. 482,379; published Sept. 4, 1945. Class 32.
House of Lontay, Inc., New York, N. Y. Hair waving fluid. 417,780; Nov. 13. Class 6.
Industrial Union of Marine and Shipbuilding Workers of America (also doing business as The Industrial Union of Marine and Shipbuilding Workers of America, CIO). Camden, N. J. Periodical to be published annually. 417,726; Nov. 13; Serial No. 481,631; published Aug. 28, 1945. Class 38.
Industrial Union of Marine and Shipbuilding Workers of America, CIO: *See*—
Industrial Union of Marine and Shipbuilding Workers of America.
Interatlantic Trading Corp., New York, N. Y. Saw blades and tweezers. 417,749; Nov. 13; Serial No. 483,823; published Aug. 28, 1945. Class 23.
Isaacs, Joel, Shirt Co., New York, N. Y. Outer shirts. 417,777; Nov. 13. Class 39.
Jellum, Inc., Joliet, Ill. Gravy mix. 417,767; Nov. 13. Class 46.
Johnson & Johnson, New Brunswick, N. J. Sanitary napkins. 417,688; Nov. 13; Serial No. 469,567; published Sept. 4, 1945. Class 44.
Katz, Joseph M., Pittsburgh, Pa. Stationery. 417,781; Nov. 13. Class 37.
Kenilworth Manufacturing Company Limited, London, England. Jointings and packings for engines. 417,729; Nov. 13; Serial No. 481,897; published Sept. 4, 1945. Class 12.
Kesko Products Co., Bristol, Ind. Float controlled mercury switches. 417,747; Nov. 13; Serial No. 483,773; published Aug. 28, 1945. Class 21.
Keyes Fibre Company, Waterville, Maine. Printed publication. 417,743; Nov. 13; Serial No. 483,431; published Aug. 28, 1945. Class 38.
Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Wire rope or cable. 417,762; Nov. 13; Serial No. 485,283; published Sept. 4, 1945. Class 7.
Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Flexible metal hose. 417,763; Nov. 13; Serial No. 485,296; published Sept. 4, 1945. Class 35.
Kohnstamm, H., & Co., Inc., New York, N. Y. Soap for washing silks, wools, rayons, etc. 417,794; Nov. 13. Class 4.
Kohnstamm, H., & Co., Inc., New York, N. Y. Soap, used for laundry purposes. 417,795; Nov. 13. Class 4.
Lapiner Fur Company, New York, N. Y. Fur coats. 417,789; Nov. 13. Class 39.
Leese, Jack, New York, N. Y. After shaving lotions, skin lotions, deodorants, etc. 417,791; Nov. 13. Class 6.
Linscomb, Irven E., doing business as Pioneer Bag Company, North Kansas City, Mo. Burlap, cotton and paper bags and paper and corrugated cartons. 417,753; Nov. 13; Serial No. 484,535; published Sept. 4, 1945. Class 2.
Longwood Manufacturing Co., Boston, Mass. Cut-out children's dresses. 417,776; Nov. 13. Class 39.
Lynch Corporation, Providence, R. I. Toy educational sets. 417,774; Nov. 13. Class 22.
Maas & Waldstein Company, Newark, N. J. Coating compositions. 417,804; Nov. 13. Class 6.
Mac-O-Lac Paint & Varnish Works, Detroit, Mich. Ready-mixed paints, varnishes, paint enamels, etc. 417,797; Nov. 13. Class 16.
Maison France: *See*—
Maison France, Inc.
Maison France, Inc., assignor to Maison France, New York, N. Y. Ladies' blouses, dickeys, cuffs, etc. 417,783; Nov. 13. Class 39.
Mandelbaum Coats, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 417,746; Nov. 13; Serial No. 483,577; published Aug. 28, 1945. Class 39.
Maxson, W. L., Corporation, The, New York, N. Y. Electrical ovens. 417,737; Nov. 13; Serial No. 482,688; published Aug. 28, 1945. Class 21.
McCoy, Jones & Company, Inc., Chicago, Ill. Hand bags, purses, coin purses, etc. 417,720; Nov. 13; Serial No. 480,466; published Sept. 4, 1945. Class 3.
Miller, Adam J., doing business as Cadet Creme Company, Worcester, Mass. Soap and hand cleaning abrasive preparations. 417,769; Nov. 13. Class 4.
Mills & Easley, New York, N. Y. Dolls. 417,721; Nov. 13; Serial No. 480,467; published Sept. 4, 1945. Class 22.
Moffats Limited, Weston, Ontario, Canada. Gas, oil, coal and wood burning stoves and ranges, ovens, etc. 417,725; Nov. 13; Serial No. 481,418; published Sept. 4, 1945. Class 34.
Morris-Systems Co.: *See*—
Steinberg, Morris.
Myllsh, Mann & Drucker, Philadelphia, Pa. Shirts and shirt collars. 417,775; Nov. 13. Class 39.
Nash & Kinsella Laboratories, Inc., St. Louis, Mo. Spray-type liquid insecticide. 417,793; Nov. 13. Class 6.
National Office Supply Company, Waukegan, Ill. Publication. 417,741; Nov. 13; Serial No. 483,333; published Aug. 28, 1945. Class 38.
New York Mattress Company, Boston, Mass. Mattresses. 417,764–5; Nov. 13; Serial Nos. 485,301–2; published Sept. 4, 1945. Class 32.
Nukem Products Corporation, Buffalo, N. Y. Plastic linings and brick parts. 417,685; Nov. 13; Serial No. 468,928; published Aug. 28, 1945. Class 12.

Nunn-Bush Shoe Company, Milwaukee, Wis. Men's and boys' shoes, oxfords, slippers, etc. 417,805; Nov. 13. Class 39.

Ohio Crankshaft Company, The, Cleveland, Ohio. Inductive and dielectric heating apparatus. 417,711; Nov. 13; Serial No. 478,014; published Aug. 28, 1945. Class 21.

Orr Felt & Blanket Company, The, Piqua, Ohio. Blankets. 417,814–15; Nov. 13. Class 42.

Pulay, S. T., Textile Corporation, New York, N. Y. Piece goods of rayon, cotton, or wool, or mixtures thereof. 417,745; Nov. 13; Serial No. 483,444; published Aug. 28, 1945. Class 42.

Passin, Sidney, New York, N. Y. Ladies' and misses' fur coats, fur hats, fur scarfs, etc. 417,808; Nov. 13. Class 39.

Perlberg, Fred, Inc., New York, N. Y. Misses' and juniors' dresses. 417,788; Nov. 13. Class 39.

Perma-Flex Mold Co., The, Columbus, Ohio. Flexible molds. 417,706; Nov. 13; Serial No. 476,258; published Sept. 4, 1945. Class 23.

Pfister & Vogel Tanning Co., Milwaukee, Wis. Leather. 417,785; Nov. 13. Class 1.

Phillips Petroleum Company, Bartlesville, Okla. Vehicle seat covers. 417,684; Nov. 13; Serial No. 468,728; published Sept. 4, 1945. Class 19.

Pichel, Inc., New York, N. Y. Ladies' handbags. 417,756; Nov. 13; Serial No. 484,796; published Sept. 4, 1945. Class 3.

Pioneer Bag Company: *See*—
Linscomb, Irven E.

Polk Packing Association, Winter Haven, Fla. Citrus products. 417,803; Nov. 13. Class 46.

Porterprint Limited, Leeds, England. Game. 417,708; Nov. 13; Serial No. 476,926; published Sept. 4, 1945. Class 22.

Quackenbush Company: *See*—
Allied Stores Corporation.

"Radcliff": *See*—
Walhimer, Morris.

Rickerfor & Saladino, doing business as Rickey-Sal All-in-One, New Orleans, La. Non alcoholic concentrated liquid products. 417,680; Nov. 13; Serial No. 458,952; published Aug. 28, 1945. Class 49.

Rickey-Sal All-in-One: *See*—
Rickerfor & Saladino.

Rosedale Knitting Company, Laureldale, Pa. Hosiery. 417,773; Nov. 13. Class 39.

Rossman, Jerry, Corporation, New York, N. Y. Ladies', misses', girls' and children's dresses, blouses, skirts, etc. 417,816; Nov. 13. Class 39.

Ruko Company, The, New York, N. Y. Camera cases. 417,770; Nov. 13. Class 26.

Sabina-Gustave, New York, N. Y. Ladies' and misses' bed jackets, scarfs, shawls, etc. 417,810; Nov. 13. Class 39.

Saco-Moc Shoe Corporation, Portland, Maine. Moccasins. 417,786; Nov. 13. Class 39.

Sanders, Abraham M., doing business as Al Sanders Co., New York, N. Y. Suits for men and young men, men's and young men's sport clothes. 417,717; Nov. 13; Serial No. 419,953; published Aug. 28, 1945. Class 39.

Sanders, Al. Co.: *See*—
Sanders, Abraham M.

Scattone, Vincenzo, New York, N. Y. Hernia trusses. 417,719; Nov. 13; Serial No. 480,390; published Sept. 4, 1945. Class 44.

Schaefer, Marie, New York, N. Y. Hoods. 417,799; Nov. 13. Class 39.

Scheffler, Raymond J., doing business as Grand Rapids Die and Tool Company, Grand Rapids, Mich. Rotary fans, exhaust blowers, forced draft blowers, etc. 417,686; Nov. 13; Serial No. 468,973; published Sept. 4, 1945. Class 34.

Siegle, Fannie, Seattle, Wash. Mechanics' aprons. 417,707; Nov. 13; Serial No. 476,529; published Aug. 28, 1945. Class 39.

Simon, Franklin, & Co., Inc., New York, N. Y. Coats. 417,713; Nov. 13; Serial No. 479,447; published Aug. 28, 1945. Class 39.

Skipper's Remedies, Portland, Oreg. Sarcoptic mange medicine. 417,784; Nov. 13. Class 6.

Smart Maid Coat Co., Inc., New York, N. Y. Woolen materials. 417,778; Nov. 13. Class 42.

Smith, J. A., Company, St. Louis, Mo. Instruction sheets. 417,699; Nov. 13; Serial No. 473,898; published Aug. 28, 1945. Class 38.

Spiegel, Inc., Chicago, Ill. Men's hosiery. 417,801; Nov. 13. Class 39.

Steinberg, Morris, doing business as Morris-Systems Co., New York, N. Y. Games. 417,740; Nov. 13; Serial No. 483,289; published Sept. 4, 1945. Class 22.

Stifel, J. L., & Sons, Inc., Wheeling, W. Va. Slacks, riding breeches, pajamas, etc. 417,779; Nov. 13. Class 39.

Strombeck Press Inc., Moline, Ill. Folding picture puzzles. 417,728; Nov. 13; Serial No. 481,807; published Sept. 4, 1945. Class 22.

Studio Cosmetic Company, Los Angeles, Calif. Cologne and bubble bath crystals. 417,800; Nov. 13. Class 6.

Sure-Rite Products Company, Philadelphia, Pa. Electric insulating compound. 417,723; Nov. 13; Serial No. 480,630; published Sept. 4, 1945. Class 21.

Thonet Brothers, Inc., New York, N. Y. Barbers' armchairs, bedroom suites, bedsteads, etc. 417,709; Nov. 13; Serial No. 477,824; published Sept. 4, 1945. Class 32.

Thonet Brothers, Inc., New York, N. Y. Barbers' armchairs, bedroom suites, bedsteads, etc. 417,710; Nov. 13; Serial No. 477,826; published Sept. 4, 1945. Class 32.

Time, Incorporated, New York, N. Y. Featured column appearing in its monthly magazine. 417,739; Nov. 13; Serial No. 483,123; published Aug. 21, 1945. Class 38.

Tobey, Alton E., Santa Cruz, Calif. Rasp bands and wheels. 417,701; Nov. 13; Serial No. 474,969; published Sept. 4, 1945. Class 23.

Tomlinson of High Point, High Point, N. C. Articles of furniture. 417,812; Nov. 13. Class 32.

United Rubber Workers of America, Akron, Ohio. Printed books, pamphlets, circulars, and newspapers. 417,687; Nov. 13; Serial No. 469,478; published Aug. 28, 1945. Class 38.

United States Gypsum Company, Chicago, Ill. Hydraulically bonded asbestos heat insulating blocks. 417,681; Nov. 13; Serial No. 462,212; published Aug. 28, 1945. Class 12.

Valdome, Incorporated, Staten Island, N. Y. Sparkling wines. 417,679; Nov. 13; Serial No. 458,349; published Aug. 28, 1945. Class 47.

"Walhimer, M.": *See*—
Walhimer, Morris.

Walhimer, Morris, doing business under the names "M. Walhimer" and "Radcliff," New Haven, Conn., and New York, N. Y. Perfume, face powder, nail polish, etc. 417,787; Nov. 13. Class 6.

Western Boat Building Co., Tacoma, Wash. Marine craft. 417,718; Nov. 13; Serial No. 479,960; published Sept. 4, 1945. Class 19.

Woodard, W. R., Co., Los Angeles, Calif. Ladies' blouses. 417,807; Nov. 13. Class 39.

Woodi-Toy Company, Los Angeles, Calif. Toys. 417,754; Nov. 13; Serial No. 484,549; published Sept. 4, 1945. Class 22.

Young Life Campaign, Dallas, Tex. Publication published approximately monthly. 417,703; Nov. 13; Serial No. 475,381; published Aug. 28, 1945. Class 38.

Young Originals, New York, N. Y. Misses', junior misses', and girls' dresses, slacks, outer shorts, etc. 417,790; Nov. 13. Class 39.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

### CLASS 1

Leather. Pfister & Vogel Tanning Co. 417,785; Nov. 13.

### CLASS 2

Bags and paper and corrugated cartons, Burlap, cotton, and paper. I. E. Linscomb. 417,753; Nov. 13; Serial No. 484,535; published Sept. 4, 1945.

Baskets, canister sets, bread boxes, etc., Waste. Harvell Manufacturing Corporation. 417,735; Nov. 13; Serial No. 482,378; published Sept. 4, 1945.

Boxes and cartons, Paperboard. Hinde & Dauch Paper Company. 417,755; Nov. 13; Serial No. 484,743; published Sept. 4, 1945.

Boxes, wooden crates and boxes, etc., Corrugated. General Box Company. 417,757; Nov. 13; Serial No. 484,836; published Sept. 4, 1945.

Cases, Manufactured wooden. Aacon Contracting Co., Inc. 417,817; Nov. 13.

### CLASS 3

Handbags, Ladies'. Pichel Inc. 417,756; Nov. 13; Serial No. 484,796; published Sept. 4, 1945.

Handbags, purses, coin purses, etc. McCoy, Jones & Company, Inc. 417,720; Nov. 13; Serial No. 480,466; published Sept. 4, 1945.

### CLASS 4

Cleaning preparation, Specially compounded. Asco Car Cleaner Company. 417,798; Nov. 13.

Soap and hand cleaning abrasive preparations. A. J. Miller. 417,769; Nov. 13.

Soap for washing silks, wools, rayons, etc. H. Kohnstamm & Co., Inc. 417,794; Nov. 13.

Soap, used for laundry purposes. H. Kohnstamm & Co., Inc. 417,795; Nov. 13.

### CLASS 5

Cement, Adhesive. H. J. Heribert. 417,704; Nov. 13; Serial No. 475,425; published Sept. 4, 1945.



### CLASS 6

Coating compositions. Maas & Waldstein Company. 417,804; Nov. 13.

Cologne and bubble bath crystals. Studio Cosmetic Company. 417,800; Nov. 13.

Hair waving fluid. House of Lontay, Inc. 417,780; Nov. 13.

Insecticide, Spray-type liquid. Nash & Kinsella Laboratories, Inc. 417,793; Nov. 13.

Laxative herb tea. H. Fleischer. 417,772; Nov. 13.

Lotions, skin lotions, deodorants, etc., After shaving. J. Leese. 417,791; Nov. 13.

Medicine, Sarcoptic mange. Skipper's Remedies. 417,784; Nov. 13.

Medicines, Stomach. L. B. Barham. 417,796; Nov. 13.

Perfume, face powder, nail polish, etc. M. Walhimer. 417,787; Nov. 13.

Powder, Roach. Brunswig Drug Company. 417,806; Nov. 13.

Toilet water. Henri Bendel, Inc. 417,809; Nov. 13.

### CLASS 7

Rope or cable, Wire. Walter Kidde & Company, Inc. 417,762; Nov. 13; Serial No. 485,283; published Sept. 4, 1945.

### CLASS 8

Cigarette tipping material. Boucher Cork Co., Inc. 417,768; Nov. 13.

### CLASS 12

Cement and firebrick, Refractory. Botfield Refractories Company. 417,690; Nov. 13; Serial No. 469,720; published Aug. 28, 1945.

Cement, Refractory. Botfield Refractories Company. 417,689; Nov. 13; Serial No. 469,719; published Aug. 28, 1945.

Insulating blocks, Hydraulically bonded asbestos heat. United States Gypsum Company. 417,681; Nov. 13; Serial No. 462,212; published Aug. 28, 1945.

Insulating materials, Heat and sound. American Rock Wool Corp. 417,758; Nov. 13; Serial No. 485,069; published Sept. 4, 1945.

Jointings and packings for engines. Kenilworth Manufacturing Company. 417,720; Nov. 13; Serial No. 481,897; published Sept. 4, 1945.

Linings and brick parts, Plastic. Nukem Products Corporation. 417,685; Nov. 13; Serial No. 468,928; published Aug. 28, 1945.

Plywood. Douglas Fir Plywood Association. 417,733; Nov. 13; Serial No. 482,312; published Sept. 4, 1945.

Plywood. Douglas Fir Plywood Association. 417,734; Nov. 13; Serial No. 482,315; published Sept. 4, 1945.

Resin for use in soil, Specially prepared. Hercules Powder Company. 417,715; Nov. 13; Serial No. 479,623; published Sept. 4, 1945.

### CLASS 13

Sprinkler units, piping, valves, Deluge. "Automatic" Sprinkler Company of America. 417,771; Nov. 13.

### CLASS 16

Coating material, Shellac-like. E. J. Hofford. 417,802; Nov. 13.

Paints, varnishes, paint enamels, etc., Ready-mixed. Mac-O-Lac Paint & Varnish Works. 417,797; Nov. 13.

### CLASS 19

Automobiles. L. Holzer. 417,682; Nov. 13; Serial No. 463,673; published Aug. 28, 1945.

Covers, Vehicle seat. Phillips Petroleum Company. 417,684; Nov. 13; Serial No. 468,728; published Sept. 4, 1945.

Craft, Marine. Western Boat Building Co. 417,718; Nov. 13; Serial No. 479,960; published Sept. 4, 1945.

### CLASS 21

Electric insulating compound. Sure-Rite Products Company. 417,723; Nov. 13; Serial No. 480,630; published Sept. 4, 1945.

Electrical transformer cases, Sealed. A. P. Foster. 417,730; Nov. 13; Serial No. 482,200; published Aug. 28, 1945.

Heating apparatus, Inductive and dielectric. Ohio Crankshaft Company. 417,711; Nov. 13; Serial No. 478,014; published Aug. 28, 1945.

Lighting fixtures and fluorescent tubes, Domestic, commercial, and industrial. Fluorescent Corporation of America. 417,702; Nov. 13; Serial No. 475,049; published Aug. 28, 1945.

Ovens, Electrical. W. L. Maxson Corporation. 417,737; Nov. 13; Serial No. 482,688; published Aug. 28, 1945.

Switches, Float controlled mercury. Kesko Products Co. 417,747; Nov. 13; Serial No. 483,773; published Aug. 28, 1945.

Wire, rod, and strip formed of non-ferrous metallic alloys. Wilbur B. Driver Company. 417,750; Nov. 13; Serial No. 484,047; published Aug. 28, 1945.

### CLASS 22

Doll millinery kits. Federated Fashions, Inc. 417,727; Nov. 13; Serial No. 481,739; published Sept. 4, 1945.

Dolls. A. L. Clark. 417,766; Nov. 13; Serial No. 485,400; published Sept. 4, 1945.

Dolls. Mills & Easley. 417,721; Nov. 13; Serial No. 480,467; published Sept. 4, 1945.

Game. Chad Valley Co. Ltd. 417,697; Nov. 13; Serial No. 472,179; published Sept. 4, 1945.

Game. Porterprint Limited. 417,708; Nov. 13; Serial No. 476,926; published Sept. 4, 1945.

Games. M. Steinberg. 417,740; Nov. 13; Serial No. 483,289; published Sept. 4, 1945.

Golf bags. H. D. Gihon, Inc. 417,752; Nov. 13; Serial No. 484,451; published Sept. 4, 1945.

Puzzles, Folding picture. Strombeck Press Inc. 417,728; Nov. 13; Serial No. 481,807; published Sept. 4, 1945.

Skis and ski bindings and parts thereof. Groswold Ski Company, Inc. 417,813; Nov. 13.

Toy educational sets. Lynch Corporation. 417,774; Nov. 13.

Toys. Woodi-Toy Company. 417,754; Nov. 13; Serial No. 484,549; published Sept. 4, 1945.

### CLASS 23

Bands and wheels, Rasp. A. E. Tobey. 417,701; Nov. 13; Serial No. 474,969; published Sept. 4, 1945.

Blades and tweezers, Saw. Interatlantic Trading Corp. 417,749; Nov. 13; Serial No. 483,823; published Aug. 28, 1945.

Cancelling machines, perforating machines, validating machines, etc. Cummins Perforator, Division of A. S. C. Corporation. 417,693; Nov. 13; Serial No. 471,249; published Aug. 28, 1945.

Drills, reamers, milling cutters, etc., Twist. Ampco Twist Drill Company. 417,705; Nov. 13; Serial No. 475,711; published Sept. 4, 1945.

Drums for sanding machines, Sanding. Exactone Tool and Die Company. 417,714; Nov. 13; Serial No. 479,510; published Aug. 28, 1945.

Engines and process machinery, etc., Marine and stationary Diesel. Enterprise Engine & Foundry Co. 417,731; Nov. 13; Serial No. 482,275; published Aug. 28, 1945.

Molds, Flexible. Perma-Flex Mold Co. 417,706; Nov. 13; Serial No. 476,258; published Sept. 4, 1945.

Mounts, Rubber vibration. Hamilton Kent Manufacturing Company. 417,722; Nov. 13; Serial No. 480,581; published Sept. 4, 1945.

### CLASS 26

Camera cases. Ruko Company. 417,770; Nov. 13.

### CLASS 28

Necklaces, chokers, earrings, etc., Non-precious. Sig Dawer & Co. 417,811; Nov. 13.

### CLASS 32

Armchairs, bedroom suites, bedsteads, etc., Barbers'. Thonet Brothers, Inc. 417,709; Nov. 13; Serial No. 477,824; published Sept. 4, 1945.

Armchairs, bedroom suites, bedsteads, etc., Barbers'. Thonet Brothers, Inc. 417,710; Nov. 13; Serial No. 477,826; published Sept. 4, 1945.

Furniture, Articles of. Tomlinson of High Point. 417,812; Nov. 13.

Mattresses. New York Mattress Company. 417,764–5; Nov. 13; Serial Nos. 485,301–2; published Sept. 4, 1945.

Padding, Sisal. S. Horvitz & Sons. 417,736; Nov. 13; Serial No. 482,379; published Sept. 4, 1945.

### CLASS 34

Air conditioning and heating units, Gas and oil operated. Essick Manufacturing Company. 417,696; Nov. 13; Serial No. 471,898; published Aug. 28, 1945.

Fans, exhaust blowers, forced draft blowers, etc., Rotary. R. J. Scheffler. 417,686; Nov. 13; Serial No. 468,973; published Sept. 4, 1945.

Stokers and parts thereof, Furnace. American Engineering Company. 417,732; Nov. 13; Serial No. 482,307; published Sept. 4, 1945.

Stoves and ranges; ovens, etc., Gas, oil, coal, and wood burning. Moffats Limited. 417,725; Nov. 13; Serial No. 481,418; published Sept. 4, 1945.

### CLASS 35

Hose, Flexible metal. Walter Kidde & Company, Inc. 417,763; Nov. 13; Serial No. 485,296; published Sept. 4, 1945.

### CLASS 37

Stationery. J. M. Katz. 417,781; Nov. 13.

### CLASS 38

Books, pamphlets, circulars, and newspapers, Printed. United Rubber Workers of America. 417,687; Nov. 13; Serial No. 469,478; published Aug. 28, 1945.

Column appearing in its monthly magazine, Featured. Time, Incorporated. 417,739; Nov. 13; Serial No. 483,123; published Aug. 21, 1945.

Comic strip. Anglo-American Publishing Company Limited. 417,698; Nov. 13; Serial No. 473,173; published Aug. 28, 1945.
Magazine. H. "A" Chesler. 417,712; Nov. 13; Serial No. 478,539; published Aug. 28, 1945.
Periodical to be published annually. Industrial Union of Marine and Shipbuilding Workers of America. 417,726; Nov. 13; Serial No. 481,631; published Aug. 28, 1945.
Publication. National Office Supply Company. 417,741; Nov. 13; Serial No. 483,333; published Aug. 28, 1945.
Publication, Monthly general. Conde Nast Publications, Inc. 417,724; Nov. 13; Serial No. 481,361; published Aug. 28, 1945.
Publication, Printed. Keyes Fibre Company. 417,743; Nov. 13; Serial No. 483,431; published Aug. 28, 1945.
Publication published approximately monthly. Young Life Campaign. 417,703; Nov. 13; Serial No. 475,381; published Aug. 28, 1945.
Sheets, Instruction. J. A. Smith Company. 417,699; Nov. 13; Serial No. 473,895; published Aug. 28, 1945.

CLASS 39

Aprons, Mechanics'. F. Siegle. 417,707; Nov. 13; Serial No. 476,529; published Aug. 28, 1945.
Blouses, dickeys, cuffs, etc., Ladies'. Maison France, Inc. 417,783; Nov. 13.
Blouses, Ladies'. W. R. Woodard Co. 417,807; Nov. 13.
Clothing, Ladies'. Cadoux Co. 417,782; Nov. 13.
Coats. Franklin Simon & Co., Inc. 417,713; Nov. 13; Serial No. 479,447; published Aug. 28, 1945.
Coats, Fur. Lapiner Fur Company. 417,789; Nov. 13.
Coats, fur hats, fur scarfs, etc., Ladies' and misses'. S. Passin. 417,808; Nov. 13.
Coats, suits, jackets, etc., Ladies' and misses'. Mandelbaum Coats. 417,746; Nov. 13; Serial No. 483,577; published Aug. 28, 1945.
Dresses, blouses, skirts, etc., Ladies', misses', girls', and children's. Jerry Rossman Corporation. 417,816; Nov. 13.
Dresses, Cut-out, children's. Longwood Manufacturing Co. 417,776; Nov. 13.
Dresses, Misses' and juniors'. Fred Perlberg Inc. 417,788; Nov. 13.
Dresses, slacks, outer shorts, etc., Misses', junior misses', and girls'. Young Originals. 417,790; Nov. 13.
Hoods. M. Schaefer. 417,799; Nov. 13.
Hosiery. Rosedale Knitting Company. 417,773; Nov. 13.
Hosiery, Men's. Spiegel, Inc. 417,801; Nov. 13.
Jackets, scarfs, shawls, etc., Ladies' and misses' bed. Sabina-Gustave. 417,810; Nov. 13.
Moccasins. Saco-Moc Shoe Corporation. 417,786; Nov. 13.
Neckties. Cluett, Peabody & Co., Inc. 417,716; Nov. 13; Serial No. 479,778; published June 26, 1945.
Playsuits, shorts, skirts, etc., Women's and girls'. Carefree Wear Company. 417,738; Nov. 13; Serial No. 482,729; published Aug. 28, 1945.
Shirts and shirt collars. Mylish, Mann & Drucker. 417,775; Nov. 13.
Shirts and sunsuits, Juvenile and boys' outer. Daniel Gold Company. 417,748; Nov. 13; Serial No. 483,819; published Aug. 28, 1945.
Shirts, Outer. Joel Isaacs Shirt Co. 417,777; Nov. 13.
Shoes, oxfords, slippers, etc., Men's and boys'. Nunn-Bush Shoe Company. 417,805; Nov. 13.
Slacks, riding breeches, pajamas, etc. J. L. Stifel & Sons, Inc. 417,779; Nov. 13.
Stockings and socks. D. Byford and Co. Limited. 417,700; Nov. 13; Serial No. 474,948; published Aug. 28, 1945.
Suits for men and young men, men's and young men's sport clothes. A. M. Sanders. 417,717; Nov. 13; Serial No. 479,953; published Aug. 28, 1945.

CLASS 42

Blankets. Orr Felt & Blanket Company. 417,814; Nov. 13.
Curtains, tablecloths, towels, etc. Allied Stores Corporation. 417,691; Nov. 13; Serial No. 470,252; published Sept. 4, 1945.
Piece goods of cotton and rayon and mixtures of cotton and rayon. Herbert Manufacturing Company. 417,742; Nov. 13; Serial No. 483,427; published Aug. 28, 1945.
Piece goods of cotton and rayon and mixtures of cotton and rayon. Herbert Manufacturing Company. 417,744; Nov. 13; Serial No. 483,428; published Aug. 28, 1945.
Piece goods of cotton, rayon, and of mixtures of cotton and rayon. Cornhall & Malamut. 417,792; Nov. 13.
Piece goods of rayon, cotton, or wool, or mixtures thereof. S. T. Palay Textile Corporation. 417,745; Nov. 13; Serial No. 483,444; published Aug. 28, 1945.
Woolen materials. Smart Maid Coat Co., Inc. 417,778; Nov. 13.

CLASS 44

Napkins, Sanitary. Johnson & Johnson. 417,688; Nov. 13; Serial No. 469,567; published Sept. 4, 1945.
Trusses, Hernia. V. Scattone. 417,719; Nov. 13; Serial No. 480,390; published Sept. 4, 1945.

CLASS 45

Syrups, extracts, and flavoring compounds. Fries & Fries, Inc. 417,751; Nov. 13; Serial No. 484,397; published Aug. 28, 1945.

CLASS 46

Citrus products. Polk Packing Association. 417,803; Nov. 13.
Gravy mix. Jellum, Inc. 417,767; Nov. 13.

CLASS 47

Wines, Sparkling. Valdome, Incorporated. 417,679; Nov. 13; Serial No. 458,349; published Aug. 28, 1945.

CLASS 49

Brandy, Apricot flavored. Bardinet, Ltd. 417,759; Nov. 13; Serial No. 485,258; published Aug. 28, 1945.
Brandy, Cherry flavored. Bard[illegible] Ltd. 417,760; Nov. 13; Serial No. 485,260; publis[illegible] Aug. 28, 1945.
Brandy, Peach flavored. Bardinet, Ltd. 417,761; Nov. 13; Serial No. 485,261; published Aug. 28, 1945.
Liquid products, Non-alcoholic concentrated. Rickerfor & Saladino. 417,680; Nov. 13; Serial No. 458,952; published Aug. 28, 1945.
Rum, gin, whiskey, brandy, etc. Compañia Cubana de Alcohol, S. A. 417,694-5; Nov. 13; Serial Nos. 471,513-14; published Aug. 28, 1945.
Rum, gin, whiskey, etc. Compañia Cubana de Alcohol, S. A. 417,683; Nov. 13; Serial No. 468,438; published Aug. 28, 1945.
Rum, gin, whiskey, etc. Compañia Cubana de Alcohol, S. A. 417,692; Nov. 13; Serial No. 470,489; published Aug. 28, 1945.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Humphrey, Walter E., assignor to Pennsylvania Rubber Company, Jeannette, Pa. Shuttlecock machine. Re. 22,691; Nov. 13.
Pennsylvania Rubber Company: *See*—
Humphrey, Walter E., assignor.
Tilbrook, Gilmore L., Washington, D. C. Rhythmeter for determining sterility and fertility. Re. 22,692; Nov. 13.

# LIST OF DESIGN PATENTEES

Aber, Sylvia, New York, N. Y. Dress. 142,807; Nov. 13.
Aber, Sylvia, New York, N. Y. Dress. 142,808; Nov. 13.
Air-Col Corporation: *See*—
Clayton, Ross M., assignor.
Andresen, Raymond H., assignor to Peerless Tool and Engineering Co., Chicago, Ill. Circular saw or similar article. 142,809; Nov. 13.
Andresen, Raymond H., Chicago, Ill., assignor to Peerless Tool & Engineering Co. Band saw or similar article. 142,810; Nov. 13.
Andresen, Raymond H., assignor to Peerless Tool & Engineering Co., Chicago, Ill. Jointer or similar article. 142,811; Nov. 13.
Andresen, Raymond H., assignor to Peerless Tool & Engineering Co., Chicago, Ill. Wood turning lathe or similar article. 142,812; Nov. 13.
Andrews, Alton M., Modesto, Calif. Clothespin. 142,813; Nov. 13.
Archea, Walter D., and N. H. Doane, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool unit. 142,814; Nov. 13.
Ardmore, Anne, North Hollywood, Calif. Dog blanket. 142,815; Nov. 13.
Aviation Corporation, The: *See*—
Coleman, John D., assignor.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,816; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,817; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,818; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,819; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,820; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,821; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,822; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,823; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,824; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,825; Nov. 13.
Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 142,826; Nov. 13.
Barrett, Altina and E., Hollywood, Calif. Spectacle frame. 142,827; Nov. 13
Barrett, Eric: *See*—
Barrett, Altina and E.
Bausenbach, Arthur E., Buffalo, N. Y. Airplane hangar. 142,828; Nov. 13.
Behr, Siegfried, Flushing, N. Y. Hat. 142,829; Nov. 13.
Billington, Charles R., Memphis, Tenn. Game board. 142,830; Nov. 13.
Brewer-Titchener Corporation, The: *See*—
Johannsen, Udo K., assignor.
Brotman, Hyman D.: *See*—
Walker, George W., assignor.
Buxbaum, Albert O., Los Angeles, Calif. Combined food tray and cup. 142,831; Nov. 13.
Calem, Bernard, New York, N. Y. Handbag. 142,832; Nov. 13.
Calton, Robert G., assignor to Tennessee Enamel Manufacturing Company, Nashville, Tenn. Combination wood and coal heater. 142,833; Nov. 13.
Campbell, Willard S., Chicago, Ill. Combination pipe coupling and clamping device. 142,834; Nov. 13.
Carpenter, E. W., Manufacturing Company, The: *See*—
Loucony, Adolphe W., assignor.
Cauter, Eleanor Z.: *See*—
Smith, B. B., and Cauter.
Cincinnati Milling Machine Co., The: *See*—
Archea, W. D., and Doane, assignors.
Clayton, Ross M., Asbury Park, N. J., assignor to Air-Col Corporation. Air deflector, 142,835; Nov. 13.
Codish, George, New York, N. Y., assignor to Craft Sole Sales Company, Paterson, N. J. Woman's shoe or the like. 142,836; Nov. 13.
Coleman, John D., Detroit, Mich., assignor to The Aviation Corporation, New York, N. Y. Range. 142,837; Nov. 13.
Collins, Alma K., and L. R. Hamilton, Los Angeles, Calif. Maternity garter support. 142,838; Nov. 13.
Consolidated Vultee Aircraft Corporation: *See*—
Hall, Theodore P., assignor.
Corning Glass Works: *See*—
Ward, John B., assignor.
Coro, Inc.: *See*—
Verrecchio, Gene, assignor.
Craft Sole Sales Company: *See*—
Codish, George, assignor.
Cutler, Elizabeth, New York, N. Y. Dress. 142,839; Nov. 13.
Cutrow, Leonard A., Los Angeles, Calif. Lighter for cigarettes or the like. 142,840; Nov. 13.
D'Algodt, Otto, Basking Ridge, N. J. Shower head attachment for bath salts. 142,841; Nov. 13.
Daze, Richard E., Mount Vernon, N. Y. Cigarette holder. 142,842; Nov. 13.
Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Telephone desk stand. 142,843; Nov. 13.
Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 142,844; Nov. 13.
Doane, Norman H.: *See*—
Archea, W. D., and Doane.
Dreadner, Carl, Rochester, N. Y. Razor blade holder. 142,845; Nov. 13.
Ecker, Joe V., Chicago, Ill. Pin. 142,846; Nov. 13.
Ellmore Silver Company, Inc., The: *See*—
Lipman, Isidore A., assignor.
Famolare, Joseph P., Chestnut Hill, Mass. Shoe. 142,847; Nov. 13.
Federal Telephone and Radio Corporation: *See*—
Knorr, Camillo A., assignor.
Fegely, John P., Allentown, Pa. Baby walker. 142,848; Nov. 13.
Fredell, Titus O., Minneapolis, Minn. Jar coupling for holding paint brushes. 142,849; Nov. 13.
Geffner, Samuel H., New York, N. Y. Combined desk and blackboard. 142,850; Nov. 13.
Gerson, Samuel L., Bridgeton, N. J. Plate. 142,851; Nov. 13.
Glick, Gertrude J., Chicago, Ill. Handbag. 142,852; Nov. 13.
Gluck, Joseph, New York, N. Y. Textile fabric. 142,853; Nov. 13.
Golden, Zelma, New York, N. Y. Dress. 142,854; Nov. 13.
Golden, Zelma, New York, N. Y. Dress. 142,855; Nov. 13.
Golden, Zelma, New York, N. Y. Dress. 142,856; Nov. 13.
Golden, Zelma, New York, N. Y. Dress. 142,857; Nov. 13.
Golden, Zelma, New York, N. Y. Jacket. 142,858; Nov. 13.
Guglielmi, Victor, Leonia, N. J. Flexible band for a bracelet or similar article. 142,859; Nov. 13.
Hagloch, Henry I., Canton, and L. W. Rose, Sr., Dover, Ohio. Game board. 142,860; Nov. 13.
Hall, Theodore P., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplane. 142,861; Nov. 13.

Hall, Theodore P., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplane. 142,862; Nov. 13.
Hamilton, Lola R.: *See*—
Collins, A. K., and Hamilton.
Hoffmann, Edward C., St. Louis, Mo. Pencil sharpener. 142,863; Nov. 13.
Imberman, Jonas F., Los Angeles, Calif. Face guard for sewing machine operators. 142,864; Nov. 13.
Ingersoll, Fred M., Boston, Mass., assignor to McCray Refrigerator Company, Kendallville, Ind. Merchandise display cabinet. 142,865; Nov. 13.
International Standard Electric Corporation: *See*—
Deakin, Gerald, assignor.
Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Portable foldable grill. 142,866; Nov. 13.
Johnson, Eugene L., Jr., Utica, N. Y., assignor to Utica Drop Forke & Tool Corporation. Pair of pliers or similar article. 142,867; Nov. 13.
Jung, Henry J., Milwaukee, Wis. Finger ring. 142,868; Nov. 13.
Libbey-Owens-Fork Glass Company: *See*—
Paddock, Ormond H., assignor.
Katz, Abraham M., Freeport, N. Y. Dress. 142,869; Nov. 13.
Katz, Ludwig, Providence, R. I. Combination cigarette case and compact. 142,870; Nov. 13.
Kauders, Gustave, Forest Hills, N. Y. Chandelier. 142,871; Nov. 13.
Kerby, Alex, Lakewood, Ohio. Tray. 142,872; Nov. 13.
Knorr, Camillo A., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Field telephone. 142,873; Nov. 13.
Kuznetz, Samuel, New York, N. Y. Lady's suit. 142,874; Nov. 13.
Lipman, Isidore A., assignor to The Ellmore Silver Company, Inc., Meriden, Conn. Fork or other article of flatware. 142,875; Nov. 13.
Lipman, Isidore A., assignor to The Ellmore Silver Company, Inc., Meriden, Conn. Fork or other article of flatware. 142,876; Nov. 13.
Lipman, Isidore A., assignor to The Ellmore Silver Company, Inc., Meriden, Conn. Fork or other article of flatware. 142,877; Nov. 13.
Lipman, Isidore A., assignor to The Ellmore Silver Company, Inc., Meriden, Conn. Fork or other article of flatware. 142,878; Nov. 13.
Livingston, Arthur R., San Francisco, Calif. Combined watch and bracelet. 142,879; Nov. 13.
Loucony, Adolphe W., assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Knife sharpener. 142,880; Nov. 13.
Martin, William E., Kewanee, Ill. Gooseneck coupling for a drawn vehicle. 142,881; Nov. 13.
Martin, William E., Kewanee, Ill. Gooseneck coupling for a drawn vehicle. 142,882; Nov. 13.
Martin, William E., Kewanee, Ill. Gooseneck coupling for a drawn vehicle. 142,883; Nov. 13.
Martin, William E., Kewanee, Ill. Gooseneck coupling for a drawn vehicle. 142,884; Nov. 13.
McCray Refrigerator Company: *See*—
Ingersoll, Fred M., assignor.
McCrory, William, Los Angeles, Calif. Picture frame. 142,885; Nov. 13.
McNine, Francis R., Bridgeport, Conn. Match dispenser. 142,886; Nov. 13.
Millard, Dwight H., Norwalk, Calif. Bracelet or similar article. 142,887; Nov. 13.
Miller, Alfred H., Philadelphia, Pa., assignor to Utica Drop Forge & Tool Corporation. Plier. 142,888; Nov. 13.
Miller, William H., Jr., South Orange, N. J. Boat. 142,889; Nov. 13.
Morrow, Frank, Johnston, R. I. Earring. 142,890; Nov. 13.
Morrow, Frank, Johnston, R. I. Earring. 142,891; Nov. 13.
Morrow, Frank, Johnston, R. I. Earring. 142,892; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,893; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,894; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,895; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,896; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,897; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,898; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,899; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,900; Nov. 13.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 142,901; Nov. 13.
Moss, Nathaniel, Brooklyn, N. Y. Tray or article of similar nature. 142,902; Nov. 13.
Owens, Thomas B., Cleveland, Ohio. Crocheting stand or the like. 142,903; Nov. 13.
Paddock, Ormond H., Rossford, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Refrigerator shelf. 142,904; Nov. 13.
Peerless Tool and Engineering Co.: *See*—
Andresen, Raymond H., assignor.
Philippe, Alfred, Scarsdale, N. Y. Brooch or similar article. 142,905; Nov. 13.
Provost, Loretta M., Glendale, Calif. Combined holder for cigarettes and matches. 142,906; Nov. 13.
Reed & Barton: *See*—
Turner, George L., assignor.
Reinert, Lillian R., Hammond, Ind. Doll. 142,907; Nov. 13.
Rose, Leo W., Sr.: *See*—
Hagloch, H. I., and Rose.
Rossein, Morris, New York, N. Y. Link chain for a bracelet or similar article. 142,908; Nov. 13.
Schnittmann, Sacha S., St. Louis, Mo. Infant's portable toilet seat. 142,909; Nov. 13.
Shreve, Clifford B., assignor to Tyler Fixture Corporation, Niles, Mich. Display refrigerator. 142,910; Nov. 13.
Shrier, Henry, Forest Hills, N. Y. Educational toy for children. 142,911; Nov. 13.
Silkman, Edwin F., Baltimore, Md. Toy wagon. 142,912; Nov. 13.
Silkman, Edwin F., Baltimore, Md. Wooden pull toy. 142,913; Nov. 13.
Silver, Myer S., Brookline, Mass. Slipper. 142,914; Nov. 13.
Smith, Beatrice B., and E. Z. Cauter, New York, N. Y. Head scarf. 142,915; Nov. 13.
Spang, Joseph P., Milton, Mass. Meat tenderizing machine. 142,916; Nov. 13.
Strieby, Richard D., Kansas City, Mo. Tooth brush. 142,917; Nov. 13.
Tennessee Enamel Manufacturing Company: *See*—
Calton, Robert G., assignor.
Turner, George L., assignor to Reed & Barton, Taunton, Mass. Spoon or similar article. 142,918; Nov. 13.
Tyler Fixture Corporation: *See*—
Shreve, Clifford B., assignor.
Uncas Manufacturing Company: *See*—
Barbieri, Nicholas, assignor.
Urschel, Frank, St. Louis, Mo. Wallpaper. 142,919; Nov. 13.
Utica Drop Forge & Tool Corporation: *See*—
Johnson, Eugene L., Jr., assignor.
Miller, Alfred H., assignor.
Vander Bloomen, Norbert, West De Pere, Wis. Wall shelf. 142,920; Nov. 13.
Verrecchio, Gene, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 142,921; Nov. 13.
Victor Metal Products Corporation: *See*—
Derham, Philip A., assignor.
Von Rosenberg, Charles W., Kansas City, Mo. Smoking pipe. 142,922; Nov. 13.
Wagner, Jacob, Chicago, Ill. Combined folder for bills, pictures, cards, or the like. 142,923; Nov. 13.
Walker, George W., assignor, by mesne assignments, to H. D. Brotman, Detroit, Mich. Washing machine. 142,924; Nov. 13.
Walker, George W., assignor, by mesne assignments, to H. D. Brotman, Detroit, Mich. Washing machine. 142,925; Nov. 13.
Walker, Joset, New York, N. Y. Dress. 142,926; Nov. 13.
Ward, John B., assignor to Corning Glass Works, Corning, N. Y. Covered pitcher. 142,927; Nov. 13.
Wright, Richard H., Cleveland Heights, Ohio. Valve handle. 142,928; Nov. 13.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acco Products, Inc.: *See*—
Kern, Emil, assignor.
Advance Solvents & Chemical Corporation: *See*—
Mack, Gerry P., assignor.
Agriculture, United States of America as represented by Claude R. Wickard, and his successors in office, Secretary of: *See*—
Gertler, S. L., and Haller, assignors.
Aiken, Charles B., North Plainfield, N. J., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Electrical method and apparatus for logging boreholes. 2,388,896; Nov. 13.
Ajax Manufacturing Company, The: *See*—
Criley, William W., assignor.
Albin, Frederick G., Los Angeles, Calif., assignor to Radio Corporation of America. Electronic trigger method and circuit. 2,388,812; Nov. 13.
Allen Property Custodian: *See*—
Compagnon, P. H. M., and Le Bras.
Liesken, Auguste H.
Allen, Charles F. H., and J. A. Van Allan, assignors to Eastman Kodak Company, Rochester, N. Y. Aliphatic dibasic acids. 2,388,813; Nov. 13.
Allen Wales Adding Machine Corporation: *See*—
Lambert, Harry L., assignor.
Allied Chemical & Dye Corporation: *See*—
Flett, Lawrence H., assignor.
Gould, David F., assignor.
Alox Corporation: *See*—
Shields, J. E., and Bray, assignors.
Alter, Horace J., West Hollywood, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Disintegrating ammunition link. 2,388,943; Nov. 13.
American Cyanamid Company: *See*—
Cauwenberg, W. J., and Tanner, assignors.
Cook, E. W., and Thomas, assignors.
Schubart, Frederick C., assignor.
American Machine and Foundry Company: *See*—
Bates, Leon W., assignor.
Rundell, Rupert E., assignor.
American Pattern and Manufacturing Co.: *See*—
Miller, Raymond J., assignor.
American Steel Foundries: *See*—
Weisberger, A. A., and Click, assignors.
American Stove Company: *See*—
Douglas, Bradley C., assignor.
American Telephone and Telegraph Company: *See*—
Perry, Anthony T., assignor.
Rhoads, Charles S., assignor.
American Transformer Company: *See*—
Preston, Ralph H., assignor.
American Viscose Corporation: *See*—
Roetman, Edmond T., assignor.
Amidon, Roger W.: *See*—
Guss, C. O., and Amidon.
Ammon, Edward R., Reading, Pa. Flat hosiery knitting machine and marking attachment therefor. 2,388,944; Nov. 13.
Ammon, Roscoe A., assignor to Marion Electrical Instrument Co., Manchester, N. H. Electrical indicating instrument. 2,388,897; Nov. 13.
Anderson, David G., Clarendon Hills, and W. B. Fairfield, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Liquid measuring apparatus. 2,388,662; Nov. 13.
Anemostat Corporation of America: *See*—
Kurth, Franz J., assignor.
Angelus Sanitary Can Machinery Co.: *See*—
Schurch, Jacob H., assignor.
Argyle, Christopher S., Spondon, near Derby, assignor to British Celanese Limited, London, England. Aroylaminonitrodiphenylamine. 2,388,663; Nov. 13.
Armstrong Cork Company: *See*—
Egli, Herman K., assignor.
Powers, Paul O., assignor.
Armstrong, H. D.: *See*—
Thompson, Ross, assignor.
Arvey Corporation: *See*—
Strauss, Charles, assignor.
Ashlock, George W., Jr., Oakland, Calif. Pitting machine. 2,388,814; Nov. 13.
Atkinson, Benjamin, Salt Lake City, Utah. Confection. 2,388,815; Nov. 13.
Atlas Electrotype & Stereotype Co.: *See*—
Spelker, Albert J., assignor.
Atlas Mineral Products Company of Pennsylvania, The: *See*—
Hecht, Myer H., assignor.
Autogiro Company of America: *See*—
Stanley, Paul H., assignor.
Automatic Control Corporation: *See*—
Bower, George D., assignor.
Automatic Electric Laboratories, Inc.: *See*—
Willis, Bernard D., assignor.
Automatic Products Company: *See*—
Kuntz, Baldwin, assignor.
McCarty, Lourdes V., assignor.
Aviation Corporation, The: *See*—
Reiber, Harry P., assignor.
Bagnall, Edwin, Chicago, Ill. Stabilizer. 2,389,017; Nov. 13.
Baker, Thomas A., Logansport, Ind. Fluid proportioning system. 2,388,669; Nov. 13.
Ballard, Kermit H., Perth Amboy, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Terminal fastening for electrical capacitors. 2,389,018; Nov. 13.
Bandur, Adolph F., Berwyn, J. F. Dillinger, Riverside, and A. N. Ogden, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Magnetic material. 2,388,664; Nov. 13.
Barta, Frank A., Palos Heights, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Filament-treating system. 2,388,945; Nov. 13.
Bates, Leon W., Trenton, N. J., assignor to American Machine and Foundry Company. Pin setting mechanism for bowling alleys. 2,388,708; Nov. 13.
Bauer, Henry R., and W. A. Bogg, Fairfield, Conn.; said Bogg assignor to said Bauer. Multiple cigarette or the like. 2,389,104; Nov. 13.
Bazley, Ralph L., and W. E. De Voe, Detroit, Mich. Vertical turret machine tool. 2,389,019; Nov. 13.
Beall, Charles R., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Speed governor. 2,388,946; Nov. 13.
Beam, James A., Mount Vernon, Ohio. Apparatus for marking egg-laying hens. 2,388,898; Nov. 13.
Bean, Frederic R., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic developer. 2,388,816; Nov. 13.
Beckett, Ernest G., Larbert, Scotland, assignor to Imperial Chemical Industries Limited. Dibenzanthrone compounds. 2,388,665; Nov. 13.
Beekley, Henry L.: *See*—
Lacart, R. H., Gilbert, and Beekley.
Beguin, Albert E., Rochester, N. Y., and D. R. Swan, Cleveland, Ohio, assignors to Eastman Kodak Company, Rochester, N. Y. Subbing photographic film. 2,388,817; Nov. 13.
Bellamy, John I.: *See*—
Nelson, R. M., and Bellamy.
Bendix Aviation Corporation: *See*—
Jandasek, Joseph, assignor.
Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electrical apparatus. 2,388,899; Nov. 13.
Bent, Arthur J., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure control apparatus. 2,389,020; Nov. 13.
Bethlehem Steel Company: *See*—
Davidson, Harvey E., assignor.
Bibb, Carlisle H., and R. C. Palmer, assignors to Newport Industries, Inc., Pensacola, Fla. Drying oil substitute and making the same. 2,388,947; Nov. 13.
Bick, Edwin C., Los Angeles, Calif. Regulating and reducing adapter for sand blast machines. 2,388,818; Nov. 13.
Bixby, Guy T., Dayton, Ohio. Feed mechanism for cartridge belts. 2,388,670; Nov. 13.
Blain, Albert, Philadelphia, Pa., assignor to Radio Corporation of America. Recording apparatus. 2,389,021; Nov. 13.
Blazek, John Y., assignor to Lempco Products, Inc., Bedford, Ohio. Tube sizing broach. 2,388,948; Nov. 13.
Bloxham, Ralph H., Mobile, Ala. Closet ventilating system. 2,388,949; Nov. 13.
Boardman, Harry D., trustee: *See*—
Merriman, Henry H., assignor.
Boehmler, Erving M., Madisonville, Ohio, assignor to W. B. Petermann and E. P. Wood, as trustees. Tapping. 2,388,779; Nov. 13.
Bogg, William A.: *See*—
Bauer, H. R., and Bogg.
Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,388,819; Nov. 13.

Bonnell, George C., assignor to Vickers Incorporated Detroit, Mich. Relief valve for power transmission. 2,388,820; Nov. 13.

Booth, James H., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Roller-bearing joint assembly. 2,388,950; Nov. 13.

Booth, Joseph B. S.: *See*—
Elliott, R. C., Dewhurst, and Booth.

Bower, George D., University City, assignor to Automatic Control Corporation, St. Louis, Mo. Burner control mechanism. 2,388,666; Nov. 13.

Bower, George W., Harbor Creek, Pa., assignor to General Electric Company. Snap-acting device. 2,388,951; Nov. 13.

Bowser, S. F., & Company, Incorporated: *See*—
Harvuot, Frank B., assignor.

Braun, Anita M., Winnipeg, Manitoba, Canada. Oil refining means. 2,388,821; Nov. 13.

Bray, Cirle B.: *See*—
Shields, J. E., and Bray.

Breen, Walter F., Lancaster, and M. B. Good, Ephrata Township, Lancaster County, assignors to Hamilton Watch Company, Lancaster, Pa. Table. 2,389,022; Nov. 13.

Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Flow responsive switch. 2,388,671; Nov. 13.

Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Flow measuring device. 2,388,672; Nov. 13.

Briggs Manufacturing Company: *See*—
Kuschel, C. H., and Brill, assignors.

Brilhart, Arnold, Great Neck, N. Y., assignor to Arnold Brilhart Ltd. Reed for musical instruments. 2,388,822; Nov. 13.

Brilhart, Arnold, Ltd.: *See*—
Brilhart, Arnold, assignor.

Brill, Herbert C.: *See*—
Kuschel, C. H., and Brill.

Bristol Aeroplane Company Limited, The: *See*—
Thomas, F. M., and Price, assignors.

Bristow, Paul W.: *See*—
Lawson, R. H., and Bristow.

British Celanese Limited: *See*—
Argyle, Christopher S., assignor.

Britt, Max, Winfield, assignor to Industrial Patents Corporation, Chicago, Ill. Processing bacon. 2,388,823; Nov. 13.

Brooksieker, Herman H., Cleveland Heights, and P. I. Thyreen, Euclid, assignors to The Marquette Metal Products Company, Cleveland, Ohio. Textile mill spindle. 2,388,900; Nov. 13.

Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Method of and apparatus for heat treating dielectric materials. 2,388,824; Nov. 13.

Brown Instrument Company, The: *See*—
Shaffer, William L., assignor.

Brown, Leo H., Glenville, Conn. Dual power optical system. 2,388,673; Nov. 13.

Brown, Percy M., East Orange, assignor, by mesne assignments, to Designs, Incorporated, Hoboken, N. J. Frame for eyeglasses. 2,389,023; Nov. 13.

Browne, John W., Waukesha, assignor to Diving Equipment and Salvage Co., Inc., Milwaukee, Wis. Diving suit. 2,388,674; Nov. 13.

Brownlee, Robert N., assignor to Wood Conversion Company, Cloquet, Minn. Forming fiber felts. 2,389,024; Nov. 13.

Bugler, Arthur G., Hinsdale, and H. P. Heath, Riverside, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical device. 2,388,667; Nov. 13.

Burgeson, Gustav, Youngstown, Ohio. Wood turning device. 2,388,825; Nov. 13.

Burrows, Lawton A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Heating device. 2,388,901; Nov. 13.

Bush, A. G.: *See*—
Criner, Harry J., assignor.

Butler, John W.: *See*—
Strang, H. E., and Butler.

Buttrill, Carroll O.: *See*—
Marshall, C. D., and Buttrill.

Cadwell, Leon L.: *See*—
Williams, B. E., and Cadwell.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Yarn conditioning process. 2,388,826; Nov. 13.

Callaghan, Robert W., Keokuk, Iowa, and G. W. Elverum, Minneapolis, Minn., assignors to General Mills, Inc. Starch-gluten separation. 2,388,902; Nov. 13.

Callite Tungsten Corporation: *See*—
Kurtz, Jacob, assignor.

Campbell, Richard L., Maywood, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Synchronizer for oscillators. 2,389,025; Nov. 13.

Campbell, Thomas P., et al.: *See*—
Wright, Marcus G., assignor.

Cantrell, Troy L., Lansdowne, Pa., and J. G. Peters, Audubon, N. J., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Manufacture of azo-methine compounds. 2,388,903; Nov. 13.

Carbide and Carbon Chemicals Corporation: *See*—
Mills, Edward J., Jr., assignor.

Carlson, William A.: *See*—
Keene, W. L., and Carlson.

Carnegie-Illinois Steel Corporation: *See*—
Dubsky, John R., assignor.

Carnegie-Illinois Steel Corporation, et al.: *See*—
Grossman, M. A., and Miller, assignors.

Carter, Hobart E., Monahans, assignor of one-third to S. T. Carter, Penwell, and one-third to M. A. Russow, El Paso, Tex. Filter. 2,388,668; Nov. 13.

Carter, Samuel C., Los Angeles, Calif. Plug valve. 2,388,827; Nov. 13.

Carter, Samuel T., et al.: *See*—
Carter, Hobart E., assignor.

Casablancas High Draft Company, Limited: *See*—
Noguera, Joseph, assignor.

Castedello, William: *See*—
Schwartz, H., and Castedello.

Cauwenberg, Winfred J., Piney River, and C. A. Tanner, Jr., Amherst, Va., assignors, by mesne assignments, to American Cyanamid Company. Preparing titanium dioxide. 2,389,026; Nov. 13.

Celanese Corporation of America: *See*—
Hill, F. B., and Kimpton, assignors.

Chaplin Corporation: *See*—
Chaplin, Merle P., assignor.

Chaplin, Merle P., assignor to Chaplin Corporation, Portland, Maine. Machine for manufacturing molded pulp articles. 2,388,828; Nov. 13.

Chapman, James F., East Orange, and K. Riess, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical instrument mounting. 2,388,675; Nov. 13.

Chase, Philip H., Bala Cynwyd, and J. V. O'Neill, Willow Grove, Pa.; said O'Neill assignor to said Chase. Electric flasher. 2,388,780; Nov. 13.

Cheasley, Thomas C., Kansas City, Mo. Draft control for heaters. 2,388,829; Nov. 13.

Chiksan Tool Company: *See*—
Goodwin, Donald W., assignor.

Christensen, William R.: *See*—
Talbott, J. H., and Christensen.

Clancy, Gilbert E., assignor to Drayer & Hanson, Incorporated, Los Angeles, Calif. Heat exchanger. 2,388,721; Nov. 13.

Clark, Eugene S., Lynn, Mass., assignor to General Electric Company. Aircraft gas turbine arrangement. 2,388,952; Nov. 13.

Clark, Robert H., et al.: *See*—
Panushka, J. B., and Wheeler, assignors.

Clein, Hilliard H., New York, N. Y. Razor. 2,388,722; Nov. 13.

Cleveland Worm & Gear Company, The: *See*—
Nobel, Warren, assignor.

Cobb, Robert S., and W. B. Moore, assignors to The Moore Enameling & Manufacturing Company, West Lafayette, Ohio. Making enameled cooking utensils. 2,388,723; Nov. 13.

Coffman, Donald D., and H. B. Stevenson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthetic linear polyamides. 2,388,676; Nov. 13.

Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Soluble oil and producing same. 2,388,677; Nov. 13.

Collats, Ferdinand A., St. Paul, Minn., assignor to General Mills, Inc. Making cereal product. 2,388,904; Nov. 13.

Colonial Broach Company: *See*—
Gotberg, Harry H., assignor.

Colonnade Company, The: *See*—
Roberts, Arthur, assignor.

Columbian Rope Company: *See*—
Wilson, Earl L., assignor.

Compagnon, Patrice H. M., and J. N. L. Le Bras, Paris, France; vested in the Alien Property Custodian. Processes for the amelioration of rubber. 2,388,905; Nov. 13.

Consolidated Vultee Aircraft Corporation: *See*—
Harrison, Verne S., assignor.

Continental Can Company, Inc.: *See*—
Fink, Henry A., assignor.

Cook, Elmer W., New York, N. Y., and W. D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Hydrocarbon oil composition. 2,389,110; Nov. 13.

Coombs, Joseph C., Santa Ana, Calif. Spark plug cap adjuster. 2,388,953; Nov. 13.

Corbin, Fred A., Gary, and H. F. Netzhammer, Hobart, Ind. Heating furnace and burner therefor. 2,389,027; Nov. 13.

Corderman, Roy C., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Communication system. 2,388,906; Nov. 13.

Corliss, Raymond H., assignor of one-half to J. Papanicolas, Washington, D. C. Connector. 2,388,954; Nov. 13.

Cornelia, Emanuel, Lombard, Ill. Wire connector. 2,388,724; Nov. 13.

Cornwell, Ralph T. K.: *See*—
Reichel, R. H., and Cornwell.

Cost, William A., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Armored tank construction. 2,389,028; Nov. 13.

Cotton, James H., Toronto, Ontario, Canada. Micro wave control apparatus. 2,388,830; Nov. 13.





Courtaulds Limited: *See*—
Wormell, Robert L., assignor.

Couse, Kibbey W., Newark, N. J. Variable-speed power transmission. 2,388,955; Nov. 13.

Crabtree, James W., Minneapolis, Minn. Front end loader for self-propelled vehicles. 2,389,029; Nov. 13.

Crago, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical controlling apparatus. 2,388,956; Nov. 13.

Cramer, Archie E., Silverton, Ohio. Barbecue. 2,388,831; Nov. 13.

Criley, William W., Shaker Heights, assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Control mechanism. 2,388,832; Nov. 13.

Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Slicing machine. 2,388,725; Nov. 13.

Dahlander, Noël L., New York, N. Y., assignor of one-half to R. J. Earl, New Canaan, Conn. Interdeck ladder apparatus. 2,388,678; Nov. 13.

Dailey, Edward R., Little Rock, Ark. Multiface piston. 2,388,781; Nov. 13.

Dana, Homer J., Pullman, Wash. Pole soundness tester. 2,389,030; Nov. 13.

Davidson, Harvey E., Tulsa, Okla., assignor to Bethlehem Steel Company. Braking device. 2,389,031; Nov. 13.

Davis, Emery R., Beverly, Mass, assignor to United Shoe Machinery Corporation, Flemington, N. J. Backpart forming machine. 2,388,726; Nov. 13.

Davis Engineering Corporation: *See*—
Thompson, William H., assignor.

Davis, James A., Lawrence, Kans. Forming earth building blocks. 2,388,679; Nov. 13.

Davy, Lee G.: *See*—
Von Bramer, H., and Davy.

Dawson, Edward, New York, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Ball, disk, and drum mechanism. 2,388,680; Nov. 13.

De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Vaporizing burner. 2,388,907; Nov. 13.

De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Vaporizing burner. 2,388,908; Nov. 13.

Dench, Edward C., South Orange, N. J., assignor to Interchemical Corporation, New York, N. Y. Glossmeter. 2,388,727; Nov. 13.

Dentists' Supply Company, The: *See*—
Whittemore, Winthrop C., assignor.

Deschamps, Desire J., Rutherford, N. J., assignor to Deschamps Fuel Injection Corporation, New York, N. Y. Mixture control apparatus. 2,388,681; Nov. 13.

Deschamps Fuel Injection Corporation: *See*—
Deschamps, Desire J., assignor.

Designs, Incorporated: *See*—
Brown, Percy M., assignor.

Després, Lilly D., New York, N. Y., assignor, by mesne assignments, to Weco Products Company, Chicago, Ill. Hair net. 2,388,957; Nov. 13.

Detroit Lubricator Company: *See*—
Dillman, Earnest J., assignor.

De Voe, William E.: *See*—
Bazley, R. L., and De Voe.

Dewhurst, Maurice R.: *See*—
Elliott, R. C., Dewhurst, and Booth.

Dickey, Joseph B., Rochester, N. Y., and J. G. McNally, Knoxville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating process and resulting product. 2,388,833; Nov. 13.

Dillinger, Joy F.: *See*—
Bandur, A. F., Dillinger, and Ogden.

Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Control means. 2,389,111; Nov. 13.

Dilworth, Richard M., Hinsdale, and T. O. Lilliquist, Clarendon Hills, Ill., assignors to General Motors Corporation, Detroit, Mich. Transition control system. 2,388,782; Nov. 13.

Diving Equipment and Salvage Co., Inc.: *See*—
Browne, John W., assignor.

Dixon, Steve: *See*—
Haddock, J. L., and Dixon.

Dondero, John A., Brooklyn, N. Y. Badge. 2,388,728; Nov. 13.

Dondero, John A., Brooklyn, N. Y. Ink pad and spreader assembly. 2,388,729; Nov. 13.

Donnelly, Frank P., Alderson, Pa. Corn protector shield. 2,389,032; Nov. 13.

Douglas, Bradley C., Clayton, assignor to American Stove Company, St. Louis, Mo. Electric ignition system for gaseous fuel burners. 2,388,909; Nov. 13.

Doustin, Donald R., Bartlesville, Okla., and C. F. Weinaug, Phillips, Tex., assignors to Phillips Petroleum Company. Furfural purification. 2,388,834; Nov. 13.

Dow Chemical Company, The: *See*—
Guss, C. O., and Amidon, assignors.

Downer, Gerald W., deceased, by H. E. Murphy, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Ammunition feed device. 2,388,958; Nov. 13.

Dowty Equipment Limited: *See*—
Underwood, Cyril J., assignor.

Drayer & Hanson, Incorporated: *See*—
Clancy, Gilbert E., assignor.

Drew, John, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del. Regeneration of nickel alloy catalysts. 2,388,959; Nov. 13.

Dubitsky, Jack: *See*—
Schutz, N. R., and Dubitsky.

Dubsky, John R., Chicago, Ill., assignor to Carnegie-Illinois Steel Corporation. Electrode cooler for electric arc furnaces. 2,389,033; Nov. 13.

Duggan, James E., Birmingham, Mich. Mask structure. 2,388,835; Nov. 13.

Du Mont, Allen B., Laboratories, Inc.: *See*—
Campbell, Richard L., assignor.

Dunn, William J., Lake Charles, La. Flushing apparatus. 2,388,836; Nov. 13.

Du Pont, E. I., de Nemours & Company: *See*—
Ballard, Kermit H., assignor.
Burrows, Lawton A., assignor.
Coffman, D. D., and Stevenson, assignors.
Howell, Edward T., assignor.

Dye, Glen M., Minneapolis, Minn. Print making machine. 2,388,837; Nov. 13.

Earl, Robert J.: *See*—
Dahlander, Noël L., assignor.

Eastman Kodak Company: *See*—
Allen, C. F. H., and Van Allan, assignors.
Bean, Frederic R., assignor.
Beguin, A. E., and Swan, assignors.
Caldwell, John R., assignor.
Dickey, J. B., and McNally, assignors.
Hanson, Wesley T., Jr., assignor.
Hasche, R. L., and Utermohlen, assignors.
Kenyon, William O., and Fowler, assignors.
MacNeille, S. M., and Koch, assignors.
Mannes, L. D., and Godowsky, assignors.
Reiss, Max, assignor.
Schubert, Alvin E., assignor.
Swan, Donald R., assignor.
Von Bramer, H., and Davy, assignors.
Weissberger, A., and Leiserson, assignors.
Wood, Donald L., assignor.
Yackel, F. C., Leermakers, and Staud, assignors.

Egli, Herman K., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Die. 2,388,838; Nov. 13.

Einzig, Henry, assignor to Stemar Displays Company, Chicago, Ill. Device for binding. 2,388,960; Nov. 13.

Eisler, Charles, Jr., Maplewood, assignor to Eisler Engineering Company, Newark, N. J. Welding machine. 2,389,034; Nov. 13.

Eisler Engineering Company: *See*—
Eisler, Charles, Jr., assignor.

Electrimatic Corporation, The: *See*—
Lacart, R. H., Gilbert, and Beckley, assignors.

Elliott, Richard C., Redhill, M. R. Dewhurst, Coulsdon, and J. B. S. Booth, assignors to The Monotype Corporation Limited, Redhill, England. Photo-mechanical typographical composing machine. 2,388,961; Nov. 13.

Elverum, Gerald W.: *See*—
Callaghan, R. W., and Elverum.

Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Fruit treating apparatus. 2,388,682; Nov. 13.

Eweson, Eric W., New York, N. Y. Adhesives and their manufacture. 2,388,910; Nov. 13.

Fairfield, Walter B.: *See*—
Anderson, D. G., and Fairfield.

Fallert, Clifford D., assignor to Gaylord Container Corporation, St. Louis, Mo. Portable platform for lift trucks. 2,388,730; Nov. 13.

Fashion Frocks, Inc.: *See*—
Skinner, Charles W., assignor.

Federal Electric Products Company, Inc.: *See*—
Taylor, Tracy B., assignor.

Feeney, Terence W., Wellington, New Zealand. Back lash take-up. 2,389,035; Nov. 13.

Feild, Alexander L., Towson, Md., assignor to Rustless Iron and Steel Corporation. Grinding dust separation. 2,388,731; Nov. 13.

Fennell, William A., Clairton, Pa. Sealing rotary plug type valves. 2,389,036; Nov. 13.

Fergueson, Arthur P.: *See*—
Schatzman, G. W., and Fergueson.

Filtrol Corporation: *See*—
Gary, W. W., and Secor, assignors.

Fink, Henry A., Pelham Manor, assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for applying adhesive to container body ends. 2,388,911; Nov. 13.

Finsterbusch, Karl, Scarsdale, N. Y. Extracting apparatus. 2,388,732; Nov. 13.

Fischer & Porter Company: *See*—
Brewer, Nathaniel, assignor.

Fischler, Paul E., and J. Nathansohn, Buffalo, N. Y. Impulse switching and control mechanism. 2,388,733; Nov. 13.

Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Dry cleaning composition. 2,388,962; Nov. 13.

Forget, Louisa, Haileybury, Ontario, Canada. Corset stay mounting. 2,389,037; Nov. 13.

Fowler, William F., Jr.: *See*—
Kenyon, William O., and Fowler.

Franey, Robert G.: *See*—
Glaser, L. B., and Franey.

Frickey, Royal E., San Francisco, Calif., and C. W. McKee, assignors to Welding Service, Inc., Chicago, Ill. Method and apparatus for detecting flaws in rails. 2,388,683; Nov. 13.

Fry, Douglas J., and J. D. Kendall, Ilford, assignors to Ilford Limited, Ilford, Essex, England. Cyanine dyestuffs. 2,388,963; Nov. 13.

Fry, Millard E., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,388,839; Nov. 13.

Fulmer, Ellis I., L. A. Underkofler, and R. J. Hickey, assignors to Iowa State College Research Foundation, Ames, Iowa. Glycerol production. 2,388,840; Nov. 13.

Fulton Electric Mfg. Co.: *See*—
Nunes, John S.

Funk, Donald S., Oak Park, Ill. Window ventilator. 2,388,734; Nov. 13.

Furnas Electric Company: *See*—
Furnas, W. C., Schumacher, and Kercher, assignors.
Furnas, W. C., and Spotts.

Furnas, William C., and D. G. Spotts, Batavia, Ill.; said Spotts assignor of his right to W. C. Furnas, doing business as Furnas Electric Company, West Allis, Wis. Switch assemblage. 2,388,783; Nov. 13.

Furnas, William C., Batavia, E. B. Schumacher, Aurora, and R. S. Kercher, Naperville, assignors to Furnas Electric Company, Batavia, Ill. Switch assemblage. 2,388,784; Nov. 13.

Gary, Wright W., Los Angeles, and R. B. Secor, South Gate, assignors to Filtrol Corporation, Los Angeles, Calif. Drying pelleted catalysts. 2,388,735; Nov. 13.

Gaylord Container Corporation: *See*—
Fallert, Clifford D., assignor.

General Chemical Company: *See*—
Merriam, Henry F., assignor.
Merriam, H. F., and Harkness, assignors.

General Controls Co.: *See*—
Ray, William A., assignor.

General Electric Company: *See*—
Bower, George W., assignor.
Clark, Eugene S., assignor.
Jefferson, James F., assignor.
Johnson, Frithiof V., assignor.
Leithiser, George L., assignor.
Morrill, Wayne J., assignor.
Partridge, John H., assignor.
Puffer, Samuel R., assignor.
Puffer, S. R., and Norris, assignors.
Strang, H. E., and Butler, assignors.

General Instrument Corporation: *See*—
Glaser, L. B., and Franey, assignors.

General Mills, Inc.: *See*—
Callaghan, R. W., and Elverum, assignors.
Collatz, Ferdinand A., assignor.

General Motors Corporation: *See*—
Dilworth, R. M., and Lilquist.
Fry, Millard E., assignor.
Pearce, George C., assignor.
Schmidt, Henry W., assignor.
Stephenson, James R., assignor.

Geneto Corporation: *See*—
Upton, Frederick P., assignor.

Georgia Kaolin Company: *See*—
Lyons, Sanford C., assignor.

Germain, Louis, Brooklyn, N. Y. Bookmark. 2,388,736; Nov. 13.

German, Milo, Cozad, Nebr. Bending plastic tubing. 2,389,038; Nov. 13.

Gertler, S. I., and H. L. J. Haller, Washington, D. C., assignors to United States of America as represented by C. R. Wickard, Secretary of Agriculture, and his successors in office. Insecticide. 2,388,684; Nov. 13.

Gilbert, Richard H.: *See*—
Lacart, R. H., Gilbert, and Beekley.

Glaser, Leo B., Cranford, and R. G. Franey, Irvington, assignors to General Instrument Corporation, Elizabeth, N. J. Phonograph recorder. 2,388,964; Nov. 13.

Glick, Edward G.: *See*—
Weisberger, A. A., and Glick.

Godowsky, Leopold, Jr.: *See*—
Mannes, L. D., and Godowsky.

Goetz, Maurus T., assignor to Teletype Corporation, Chicago, Ill. Telegraph transmitter. 2,388,965; Nov. 13.

Goldsmith, Alfred N., New York, N. Y. Color television system. 2,389,039; Nov. 13.

Good, Moses R.: *See*—
Breen, W. F., and Good.

Goodwin, Donald W., assignor to Chikuan Tool Company, Brea, Calif. Controlled swivel joint. 2,388,841; Nov. 13.

Gotberg, Harry H., assignor to Colonial Broach Company, Detroit, Mich. Broach sharpening machine. 2,388,785; Nov. 13.

Gotha, Daniel F., assignor to O. S. Walker Co. Inc., Worcester, Mass. Fabrication of electric chucks. 2,388,737; Nov. 13.

Gottlieb, Manious, Philadelphia, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control apparatus. 2,389,040; Nov. 13.

Gould, David F., Riverton, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Production of high-purity aromatic hydrocarbons. 2,389,041; Nov. 13.

Gray, Newenham A.: *See*—
Payzer, S. D., and Gray.

Griffith, Llewellyn A., Buffalo, N. Y. Suction cleaner. 2,389,042; Nov. 13.

Grimes, Dudley E.: *See*—
White, G., and Grimes.

Grossmann, Marcus A., Chicago, Ill., and R. F. Miller, Pittsburgh, Pa., assignors of one-half to Carnegie-Illinois Steel Corporation and one-half to United States Steel Corporation of Delaware. Steel in elevated temperature service under stress. 2,389,043; Nov. 13.

Grubich, Stephen, Milwaukee, Wis. Material digging and handling apparatus. 2,389,044; Nov. 13.

Gudheim, Arne, Winchester, assignor to Lever Brothers Company, Cambridge, Mass. Container closure. 2,388,735; Nov. 13.

Gulf Oil Corporation: *See*—
Cantrell, T. L., and Peters, assignors.

Guss, Cyrus O., and R. W. Amidon, assignors to The Dow Chemical Company, Midland, Mich. Flexible polymeric product and making same. 2,388,685; Nov. 13.

Hass, Otto R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing and binding machine. 2,388,739; Nov. 13.

Haase, Heinrich E.: *See*—
Newton, L. R., Haase, and Walter.

Habig, Harry R., Dayton, Ohio. Intervalometer. 2,388,686; Nov. 13.

Haddock, John L., and S. Dixon, Compton, Calif. Sucker rod hanger. 2,389,045; Nov. 13.

Haferl, Rolf C., New York, and A. F. Hohne, assignors to The Jacobs Bros. Co., Inc., Brooklyn, N. Y. Scale. 2,388,912; Nov. 13.

Hall, Ike D., Baytown, Tex., assignor to Standard Oil Development Company. Separating acetylenes from light hydrocarbons. 2,388,913; Nov. 13.

Haller, Herbert L. J.: *See*—
Gertler, S. I., and Haller.

Hamilton Watch Company: *See*—
Breen, W. F., and Good, assignors.

Hammon, Alberta M., executrix: *See*—
Hammon, James H.

Hammon, James H., deceased, Vincennes, Ind.; A. M. Hammon, executrix. Making multifocal ophthalmic lens blanks. 2,388,687; Nov. 13.

Hanson, Wesley T., Jr., Oak Ridge, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Color printing system. 2,388,842; Nov. 13.

Hare, Donald G. C., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Analyzing gases. 2,389,046; Nov. 13.

Harkness, Andrew M.: *See*—
Merriam, H. F., and Harkness.

Harrington & Richardson Arms Company: *See*—
La Pierre, Alfred T., assignor.
Ruttiman, Alfred, assignor.

Harrison, Verne S., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Electrical strain gauge. 2,388,966; Nov. 13.

Hartford-Empire Company: *See*—
Smith, Algy J., assignor.

Harvuot, Frank B., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Slow feed indicator. 2,388,843; Nov. 13.

Harwood, James A., Deaver, Wyo. Beet cleaner. 2,388,740; Nov. 13.

Hasche, Rudolph L., and W. P. Utermohlen, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Esters of alpha-ethacrylic acid. 2,388,844; Nov. 13.

Hass, Henry B., West Lafayette, assignors to Purdue Research Foundation, Lafayette, Ind. Resolution of enantiomorphs. 2,388,688; Nov. 13.

Hathaway, Chester A., Burbank, assignor, by mesne assignments, to Lockheed Aircraft Corporation. Ammunition roller. 2,388,967; Nov. 13.

Haug, Eugene H., assignor to La Salle National Bank, as trustee, Chicago, Ill. Electric control system. 2,388,845; Nov. 13.

Hays, Russell R., Lawrence, Kans. Hydraulic drilling device. 2,388,741; Nov. 13.

Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Pot type burner with scoop pilot ring. 2,388,914; Nov. 13.

Heath, Herbert P.: *See*—
Bugler, A. G., and Heath.

Hebert, Neville Z., Jeanerette, La. Agricultural device. 2,388,689; Nov. 13.

Hecht, Myer H., Allentown, assignor to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Adhesive and adherent coating composition for bituminous surfaces. 2,388,846; Nov. 13.

Hedgren, Arthur W., assignor to H. H. Robertson Company, Pittsburgh, Pa. Building construction. 2,388,968; Nov. 13.





Heilborn, Herman, Brooklyn, N. Y. Nursing nipple. 2,388,915; Nov. 13.

Heineman, Stephen D.: *See*—
Lee, J., and Heineman.

Heinz, Winfield B., Bound Brook, N. J. Tension regulating mechanism. 2,389,047; Nov. 13.

Hercules Powder Company: *See*—
Drew, John, assignor.
Oatman, William F., assignor.
Ray, Philip A., assignor.
Rummelsburg, Alfred L., assignor.

Hess, Frederic O., Germantown, and R. E. B. Wakefield, Aldan, Pa., assignors to Selas Corporation of America. Airplane heating system. 2,388,969; Nov. 13.

Hess, Frederic O., Germantown, Pa., and C. P. Mann, Riverton, N. J., assignors to Selas Corporation of America. Airplane heating means. 2,388,970; Nov. 13.

Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake valve device. 2,389,048; Nov. 13.

Hibshman, Henry J., Plainfield, and W. T. Knox, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company. Recovery and regeneration of normal butenes from a sulphuric acid solution thereof. 2,388,971; Nov. 13.

Hickey, Richard J.: *See*—
Fulmer, E. I., Underkofler, and Hickey.

Hildreth, Clarence G., Pittsburgh, Pa. Truss. 2,388,847; Nov. 13.

Hill, Frank B., and W. H. Kimpton, Spondon, near Derby, England, assignors to Celanese Corporation of America. Shrinking of textile yarns and like materials. 2,388,742; Nov. 13.

Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electronic brake control apparatus. 2,389,049; Nov. 13.

Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electronic brake control system. 2,389,050; Nov. 13.

Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electronic brake control apparatus. 2,389,051; Nov. 13.

Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake system. 2,389,052; Nov. 13.

Hirschl, Alfred, Milwaukee, Wis. Mixing device. 2,388,972; Nov. 13.

Hobbs, Howard H., and W. A. Zaloudek, assignors to The Oakes Manufacturing Company, Tipton, Ind. Spray nozzle. 2,389,053; Nov. 13.

Hoffer, Max, Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Pyridine derivatives and manufacture of same. 2,389,054; Nov. 13.

Hoffmann-La Roche Inc.: *See*—
Hoffer, Max, assignor.
Lee, J., and Heineman, assignors.
Warnat, Kurt, assignor.
Wenner, Wilhelm, assignor.

Hofgren, Harry A., Chicago, Ill. Airplane. 2,388,973; Nov. 13.

Hohne, August F.: *See*—
Haferl, R. C., and Hohne.

Holder, Clinton H., Cranford, N. J., assignor to Standard Oil Development Company. Preparing diolefins from ethylene, steam and calcium carbide. 2,388,916; Nov. 13.

Holley, Earl, et al.: *See*—
Schorn, Carl F., assignor.

Holley, George M., et al.: *See*—
Schorn, Carl F., assignor.

Holroyd, Howard B., Davenport, Iowa. Link. 2,388,690; Nov. 13.

Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Casting metal. 2,388,974; Nov. 13.

Horan, John J., Buffalo, N. Y. Fuse. 2,388,691; Nov. 13.

Hormel, Geo. A., & Co.: *See*—
Hormel, Jay C., assignor.

Hormel, Jay C., assignor to Geo. A. Hormel & Co., Austin, Minn. Preservation of biological materials and products resulting therefrom. 2,388,917; Nov. 13.

Horton, Frank J., Detroit, assignor to No-Sag Spring Company, Macomb County, Mich. Spring bending machine. 2,389,055; Nov. 13.

Houdaille-Hershey Corporation: *See*—
Schatzman, G. W., and Ferguson, assignors.

House, William C., assignor to Lyon-Raymond Corporation, Greene, N. Y. Lifting truck. 2,388,692; Nov. 13.

Howe Scale Company, The: *See*—
Thorsson, Matthew, assignor.

Howe, Wilfred C., Chicago, Ill., assignor, by mesne assignments, to Maguire Industries, Incorporated, New York, N. Y. Magnetic shielding for transformers and the like. 2,388,848; Nov. 13.

Howell, Edward T., assignor to E. I. du Pont de Nemours Company, Wilmington, Del. Manufacture of dibenzanthrone compounds. 2,388,743; Nov. 13.

Hoy, Walter, Pine Lawn, Mo. Shoe construction. 2,388,744; Nov. 13.

Ilford Limited: *See*—
Fry, D. J., and Kendall, assignors.

Imperial Chemical Industries Limited: *See*—
Beckett, Ernest G., assignor.

Industrial Patents Corporation: *See*—
Britt, Max, assignor.
Newton, L. R., Haase, and Walter, assignors.
Reichel, Howard G., assignor.
Williams, B. E., and Cadwell, assignors.

Ingersoll-Rand Company: *See*—
Stepenoff, Alexey J., assignor.

Interchemical Corporation: *See*—
Dench, Edward C., assignor.

Iowa State College Research Foundation: *See*—
Fulmer, E. I., Underkofler, and Hickey, assignors.

Ipatieff, Vladimir N.: *See*—
Schmerling, L., and Ipatieff.

Iverson, John O., assignor to Universal Oil Products Company, Chicago, Ill. Hydrogen fluoride alkylation process. 2,388,918; Nov. 13.

Iverson, John O., assignor to Universal Oil Products Company, Chicago, Ill. Hydrogen fluoride alkylation process. 2,388,919; Nov. 13.

Jack & Heintz, Inc.: *See*—
Kundtz, Frank S., assignor.

Jacobs Bros. Co., Inc., The: *See*—
Haferl, R. C., and Hohne, assignors.

Jamison Cold Storage Door Company: *See*—
Jamison, John V., Jr., assignor.

Jamison, John V., Jr., assignor to Jamison Cold Storage Door Company, Hagerstown, Md. Refrigerator door fastener. 2,389,056; Nov. 13.

Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission. 2,388,849; Nov. 13.

Jaynes, Merl A., Visalia, Calif. File holder. 2,388,920; Nov. 13.

Jeckel, Norman C., Glens Falls, N. Y., assignor to United States Catheter & Instrument Corp. Method and machine for making catheters. 2,388,693; Nov. 13.

Jefferson, James F., Lynn, Mass., assignor to General Electric Company. Multistage high pressure elastic fluid turbine. 2,388,975; Nov. 13.

Jenkins, Alexander: *See*—
Thompson, L. E., and Jenkins.

Johanson, Adolph T., Glenview, assignor of one-half to M. E. Page, Jr., Chicago, Ill. Furnace. 2,388,976; Nov. 13.

Johns-Manville Corporation: *See*—
Powell, Edward R., assignor.

Johnson, Frithiof V., Schenectady, N. Y., assignor to General Electric Company. System for the transmission of angular motions. 2,388,977; Nov. 13.

Johnson, Herbert F., et al.: *See*—
Stein, Elmer L., assignor.

Kaczmarek, Roman, et al.: *See*—
Stein, Elmer L., assignor.

Kain, Clifford H.: *See*—
Mallmann, W. L., Kain, and Schaefer.

Kaiser, Ludwig, New Haven, Conn. Cabinet or the like. 2,388,978; Nov. 13.

Kalart Company, Inc., The: *See*—
Schwartz, H., and Castedello, assignors.

Kandall, Charles, New York, N. Y. Reinforced concrete tank. 2,389,057; Nov. 13.

Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Carbonator. 2,388,950; Nov. 13.

Katz, Morris, Bronx, N. Y. Paper twine and producing the same. 2,388,745; Nov. 13.

Keene, Walter L., Dormont, and W. A. Carlson, assignors to Superior Steel Corporation, Pittsburgh, Pa. Making substantially nonscalloping bimetallic sheet metal. 2,388,694; Nov. 13.

Kelley, Cecil S., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control valve device. 2,389,058; Nov. 13.

Kellogg, M. W., Company, The: *See*—
Hopkins, Robert K., assignor.

Kellogg Switchboard and Supply Company: *See*—
Barta, Frank A., assignor.

Kendall, John D.: *See*—
Fry, D. J., and Kendall.

Kenyon, William O., and W. F. Fowler, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Soluble material which becomes insoluble upon separation from solvent. 2,388,851; Nov. 13.

Kercher, Roy S.: *See*—
Furnas, W. C., Schumacher, and Kercher.

Kern, Emil, assignor to Acco Products, Inc., Long Island City, N. Y. Multiple perforator. 2,389,105; Nov. 13.

Killman, Robert T., Nashville, Tenn. Automatic nozzle. 2,388,852; Nov. 13.

Kimpton, William H.: *See*—
Hill, F. B., and Kimpton.

King, James T., Burbank, Calif. Fishing reel. 2,388,979; Nov. 13.

Klein, Clarence J., Hellidays Cove, W. Va., assignor to National Steel Corporation. Roll changing apparatus for electrolytic coating lines. 2,388,980; Nov. 13.

Knapp, Shepherd, Jenkintown, Pa. Cabinet for foods or the like. 2,388,746; Nov. 13.

Knight, Milton, Maumee, and C. D. Lowry, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Transparent closure. 2,388,786; Nov. 13.

Knox, William T., Jr.: *See*—
Hibshman, H. J., and Knox.

Koch, George J.: *See*—
MacNeille, S. M., and Koch.

Kolarik, Frank, Cicero, Ill. Automobile window screen. 2,388,747; Nov. 13.

Kooiker, Ralph L., Hull, Iowa. Portable truck grain elevator. 2,388,921; Nov. 13.

Kopetzky, Karl A., Chicago, Ill. Remote radio control. 2,388,748; Nov. 13.

Kriewaldt, Alex A., assignor of one-half to H. W. Krueger, Oconto, Wis. Letter opener. 2,388,695; Nov. 13.

Krueger, Harold W.: *See*—
Kriewaldt, Alex A., assignor.

Kundtz, Frank S., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Hand tool for inserting insulating stripe. 2,388,853; Nov. 13.

Kuntz, Baldwin C., Juneau, assignor, by mesne assignments, to Automatic Products Company, Milwaukee, Wis. Implement hitch. 2,388,981; Nov. 13.

Kurth, Franz J., assignor to Anemostat Corporation of America, New York, N. Y. Treating inflammable gases. 2,389,059; Nov. 13.

Kurtz, Jacob, Teaneck, assignor to Callite Tungsten Corporation, Union City, N. J. Refractory body of high electronic emission. 2,389,060; Nov. 13.

Kuschel, Clarence H., and H. C. Brill, assignors to Briggs Manufacturing Company, Detroit, Mich. Head-lamp closure or shutter. 2,388,787; Nov. 13.

Kuschel, Clarence H., and H. C. Brill, assignors to Briggs Manufacturing Company, Detroit, Mich. Head-lamp closure or shutter. 2,388,788; Nov. 13.

Kuzmick, Jerome, assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Powdered metal body and making same. 2,389,061; Nov. 13.

Lacert, Rollin H., Chicago, R. H. Gilbert, Oak Park, and H. L. Beekley, Glen Ellyn, Ill., assignors to The Electrimatic Corporation. Automatic valve. 2,388,696; Nov. 13.

Lakeside Engineering Corporation: *See*—
Montgomery, J. A., and Livingston, assignors.

Lambert, Harry L., Enfield, assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y. Calculating machine. 2,389,062; Nov. 13.

Lang, Ervin G., New Ulm, Minn. Denture prosthesis. 2,389,063; Nov. 13.

La Pierre, Alfred T., Worcester, Mass., assignor to Harrington & Richardson Arms Company. Cord holder for line throwing guns. 2,388,749; Nov. 13.

La Salle National Bank, trustee: *See*—
Haug, Eugene H., assignor.

Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Method of and apparatus for distillation. 2,389,064; Nov. 13.

Lawson, Robert H., and P. W. Bristow, Laconia, N. H., assignors to Scott & Williams, Incorporated. Knitting machine. 2,388,750; Nov. 13.

Le Bras, Jean N. L.: *See*—
Compagnon, P. H. M., and Le Bras.

Lee, John, Nutley, N. J., and S. D. Heineman, New York, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of nicotinic acid. 2,389,065; Nov. 13.

Leermakers, John A.: *See*—
Jackel, E. C., Leermakers, and Staud.

Lefkowitz, Elizsbeth: *See*—
Nunes, John S., assignor.

Leifer, Charles L., Forest Hills, N. Y. Paper collating machine. 2,389,066; Nov. 13.

Leiserson, Joseph L.: *See*—
Weissberger, A., and Leiserson.

Leithiser, George L., York, Pa., assignor to General Electric Company. Tensioning device. 2,388,982; Nov. 13.

Lempco Products, Inc.: *See*—
Blazek, John Y., assignor.

Le Page, Wilbur R., Pikesville, Md., assignor to Radio Corporation of America. Plural feed-back system for light sources. 2,388,854; Nov. 13.

Leslie, John H., II, Winnetka, assignor to Stewart-Warner Corporation, Chicago, Ill. Aircraft heater control apparatus. 2,388,855; Nov. 13.

Lever Brothers Company: *See*—
Gudheim, Arne, assignor.

Levy, Baruch, New York, N. Y. Diamond polishing device. 2,388,751; Nov. 13.

Lewis, Richard C., Winnetka, Ill. Infant's toilet seat. 2,388,856; Nov. 13.

Libbey-Owens-Ford Glass Company: *See*—
Knight, M., and Lowry, assignors.
Louviaux, Leon I., assignor.
Ryan, J. D., and Shaw, assignors.
White, Gerald, assignor.
White, G., and Grimes, assignors.

Lieberman, Edgar M., Kansas City, Mo. Thermal pump. 2,389,067; Nov. 13.

Liesken, Auguste H., Brussels, Belgium; vested in the Alien Property Custodian. Swing front face drawer for vertical filing cabinets. 2,388,922; Nov. 13.

Lillquist, Torsten O.: *See*—
Dilworth, R. M., and Lillquist.

Lindsley, Lawrence B., Los Gatos, Calif. Pneumatic clutch control. 2,388,857; Nov. 13.

Liquid Carbonic Corporation, The: *See*—
Kantor, James, assignor.

Little, Arthur D., Inc.: *See*—
Latham, Allen, Jr., assignor.

Livingston, Louis E.: *See*—
Montgomery, J. A., and Livingston.

Lockheed Aircraft Corporation: *See*—
Alter, Horace J., assignor.
Hathaway, Chester A., assignor.

Lombard, Robert H., assignor to Norton Company, Worcester, Mass. Grinding wheel mounting. 2,388,697; Nov. 13.

Longhway, Joseph F., Oswego, N. Y. Dispensing apparatus. 2,389,068; Nov. 13.

Loos, Alexander, Jr., Williamsport, Ind. Buckle. 2,388,752; Nov. 13.

Louviaux, Leon I., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass inspection apparatus. 2,388,789; Nov. 13.

Lowry, Clyde D.: *See*—
Knight, M., and Lowry.

Lyon-Raymond Corporation: *See*—
House, William C., assignor.

Lyons, Sanford C., Bennington, Vt., assignor to Georgia Kaolin Company, Elizabeth, N. J. Procedure of extracting aluminum hydrate from clay. 2,388,983; Nov. 13.

Mack, Gerry P., Jackson Heights, Long Island, assignor to Advance Solvents & Chemical Corporation, New York, N. Y. Polyisobutylene-wax compositions. 2,388,984; Nov. 13.

Mackliet, Alex, Spokane, Wash. Rethreading tool. 2,388,790; Nov. 13.

MacNeille, Stephen M., Oak Ridge, Tenn., and G. J. Koch, assignors to Eastman Kodak Company, Rochester, N. Y. Stereo trainer. 2,388,858; Nov. 13.

Maguire Industries, Incorporated: *See*—
Howe, Wilfred C., assignor.

Malson France: *See*—
Mirsky, Sara, assignor.

Mallmann, Walter L., East Lansing, and C. H. Kain, and R. J. Schaefer, assignors to Sanozone Corporation, Detroit, Mich. Apparatus and method for sanitizing. 2,388,753; Nov. 13.

Mann, Carl P.: *See*—
Hess, F. O., and Mann.

Mannes, Leopold D., New York, N. Y., and L. Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y. Mixed grain emulsions. 2,388,859; Nov. 13.

Marinsky, Davis: *See*—
Morin, Louis H., assignor.

Marion Electrical Instrument Co.: *See*—
Ammon, Rosco A., assignor.

Marmon-Herrington Company, Inc.: *See*—
Cost, William A., assignor.

Marquette Metal Products Company, The: *See*—
Brooksieker, H. H., and Thyreen, assignors.

Marshall, Courtenay D., and C. O. Buttrill, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Cooling system. 2,389,106; Nov. 13.

Martin, John S., Bellingham, Wash. Adjustable two-way hand snow plow. 2,388,985; Nov. 13.

Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine for welding. 2,388,754; Nov. 13.

Mascarenhas, Eneas G., Minas, Brazil. Hypodermic needle grinder. 2,389,069; Nov. 13.

Masters, Phillip, Broadwater, Nebr. Retractable vehicle support. 2,388,923; Nov. 13.

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley wire hanger. 2,388,860; Nov. 13.

Maxwell, William H., et al.: *See*—
Panushka, J. B., and Wheeler, assignors.

Maxwell, William H., Los Angeles, Calif. Hair curler. 2,388,791; Nov. 13.

Maxwell, William H., Los Angeles, Calif. Hair curler. 2,388,792; Nov. 13.

McCann, William C., Windom, Minn. Small grain windrower. 2,388,861; Nov. 13.

McCarty, Lourdes V., assignor to Automatic Products Company, Milwaukee, Wis. Snap action constant level device. 2,388,793; Nov. 13.

McKee, Chester W.: *See*—
Frickey, R. E., and McKee.

McLeod, Stewart B., Detroit, assignor to Motor State Products Company, Ypsilanti, Mich. Hydraulic lift mechanism. 2,388,755; Nov. 13.

McNally, James G.: *See*—
Dickey, J. B., and McNally.

Mercier, Pierre E., New York, N. Y. Exhaust manifold for internal-combustion engines. 2,388,924; Nov. 13.

Merriam, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Production of sulphur dioxide. 2,389,071; Nov. 13.

Merriam, Henry F., West Orange, N. J., and A. M. Harkness, Nyack, assignors to General Chemical Company, New York, N. Y. Manufacture of sulphuric acid. 2,389,070; Nov. 13.

Merriam, Henry H., assignor to H. D. Boardman, Jackson, Mich., as trustee. Cable splicing clamp. 2,388,862; Nov. 13.

Messinger, William, Philadelphia, Pa. Sealing device. 2,388,925; Nov. 13.





Metal Specialties Co., Inc.: *See*—
Stahl, Donald R., assignor.

Meyers, Willis G., Elmwood Park, Ill. Multiple opposed piston engine. 2,388,756; Nov. 13.

Millard, Jacob F., Martinsburg, W. Va. Bottle closure. 2,389,072; Nov. 13.

Miller, Alberta, Indianapolis, Ind. Brassière. 2,388,757; Nov. 13.

Miller Company, The: *See*—
De Lancey, Ralph W., assignor.

Miller, Raymond J., assignor to American Pattern and Manufacturing Co., Detroit, Mich. Motion picture projector. 2,388,794; Nov. 13.

Miller, Richard F.: *See*—
Grossman, M. A., and Miller.

Mills, Edward J., Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Making primary alkylated benzenes and naphthalenes. 2,388,758; Nov. 13.

Minneapolis-Honeywell Regulator Company: *See*—
Newton, Alwin B., assignor.

Minneapolis-Moline Power Implement Company: *See*—
Seaholm, John P., assignor.

Mirsky, Sara, Forest Hills, assignor, by mesne assignments, to Maison France, New York, N. Y. Blouse. 2,388,926; Nov. 13.

Mohawk Carpet Mills, Inc.: *See*—
Shuttleworth, Howard L., assignor.

Monotype Corporation Limited, The: *See*—
Elliott, R. C., Dewhurst, and Booth, assignors.

Montgomery, Henrietta G.: *See*—
Montgomery, Robert J., assignor.

Montgomery, John A., Denver, Colo., and L. E. Livingston, Dallas, Tex., assignors to Lakeside Engineering Corporation, Chicago, Ill. Sewage disposal. 2,388,795; Nov. 13.

Montgomery, Robert J., assignor to H. G. Montgomery, Chicago, Ill. Cable slitter. 2,388,698; Nov. 13.

Moor, Dudley W., Jr., Toledo, Ohio. Link mat. 2,388,927; Nov. 13.

Moore Enameling & Manufacturing Company, The: *See*—
Cobb, R. S., and Moore, assignors.

Moore, Walter B.: *See*—
Cobb, R. S., and Moore.

Moore, William A., Swea, Iowa. Ridge roll ventilator. 2,388,759; Nov. 13.

Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Apparatus for producing intercoupled relatively movable castings. 2,388,986; Nov. 13.

Morrell, Charles E., Roselle, and M. W. Swaney, Linden, N. J., assignors to Standard Oil Development Company. Separating butadiene from acetylenes. 2,388,928; Nov. 13.

Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Driving mechanism. 2,388,699; Nov. 13.

Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Driving mechanism. 2,388,700; Nov. 13.

Morrison, Clyde W., Toledo, Ohio. Load handling mechanism. 2,388,987; Nov. 13.

Motor State Products Company: *See*—
Mcleod, Stewart B., assignor.

Mottern, Henry O., Hillside, N. J., assignor to Standard Oil Development Company. Preparation of olefinic hydrocarbons. 2,388,929; Nov. 13.

Mount, Walter M., Tulsa, Okla. Liquid demulsifying and settling apparatus. 2,388,796; Nov. 13.

Moxley, Auben E., East Orange, N. J. Inspirator for gas burners. 2,388,930; Nov. 13.

Mueser, Charles, Verona, assignor to T. Shriver & Company, Inc., Harrison, N. J. Diaphragm valve. 2,388,988; Nov. 13.

Mueser, Charles, Verona, assignor to T. Shriver & Company, Inc., Harrison, N. J. Diaphragm valve. 2,388,989; Nov. 13.

Murphy, Harold E., administrator: *See*—
Downer, Gerald W.

Murray, D. J., Manufacturing Co.: *See*—
Payzer, S. D., and Gray, assignors.

Muskegon Piston Ring Company: *See*—
Scarff, Harold M., assignor.

Nathansohn, John: *See*—
Fischler, P. E., and Nathansohn.

National Steel Corporation: *See*—
Klein, Clarence J., assignor.

Neff, Wallace, Los Angeles, Calif. Method and apparatus for constructing shell-form structures. 2,388,701; Nov. 13.

Nelson, Edwin F., assignor to Universal Oil Products Company, Chicago, Ill. Fractionation. 2,388,931; Nov. 13.

Nelson, Ralph M., River Forest, and J. I. Bellamy, Brookfield, assignors to Sloan Valve Company, Chicago, Ill. Electrically operated flush valve. 2,388,990; Nov. 13.

Netzhammer, Harry F.: *See*—
Corbin, F. A., and Netzhammer.

Newport Industries, Inc.: *See*—
Bibb, C. H., and Palmer, assignors.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Overload protection for refrigeration systems. 2,389,073; Nov. 13.

Newton, John S., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine apparatus. 2,389,074; Nov. 13.

Newton, Lowell R., H. E. Haase, and C. T. Walter, assignors to Industrial Patents Corporation, Chicago, Ill. Sewing machine. 2,389,112; Nov. 13.

Noble, Warren, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Worm gear reduction unit. 2,388,863; Nov. 13.

Noguera, Joseph, Prestwich, assignor to Casablancas High Draft Company Limited, Manchester, England. Drafting mechanism for textile fibers. 2,388,760; Nov. 13.

Norris, Rollin H.: *See*—
Puffer, S. R., and Norris.

Norton Company: *See*—
Lombard, Robert H., assignor.

No-Sag Spring Company: *See*—
Horton, Frank J., assignor.

Nunes, John S., assignor to E. Lefkowitz, doing business as Fulton Electric Mfg. Co., New York, N. Y. Switch. 2,389,075; Nov. 13.

Oakes Manufacturing Company, The: *See*—
Hobbs, H. H., and Zaloudek, assignors.

Oatman, William F., Geneva, Ill., assignor to Hercules Powder Company, Wilmington, Del. Production of casein. 2,388,991; Nov. 13.

Odin Corporation: *See*—
Svenson, Ernest J., assignor.

Ogden, Arthur N.: *See*—
Baudur, Adolph F., Dillinger, and Ogden.

Ogorzaly, Henry J., Baton Rouge, La., assignor to Standard Oil Development Company. Continuous isomerization process. 2,388,932; Nov. 13.

Ohio Brass Company, The: *See*—
Matthes, Samuel S., assignor.

Oil Devices: *See*—
Hayter, Bruce, assignor.

Okonite-Callender Cable Company, Incorporated, The: *See*—
Bennett, Charles E., assignor.

O'Neil, James V.: *See*—
Chase, P. H., and O'Neil.

Osborn Manufacturing Company, The: *See*—
Peterson, Ruben O., assignor.

Owen, W. Myron, et al.: *See*—
Wright, Marcus G., assignor.

Owen, Wm. Walter, executor: *See*—
Willis, Bernard D.

Page, Herbert E., Pasadena, Calif. Hydraulic lift truck. 2,388,864; Nov. 13.

Page, Milton E., Jr.: *See*—
Johanson, Adolph T., assignor.

Paillard, E., & Cie, S. A.: *See*—
Prezioso, Giuseppe, assignor.

Palmer, Robert C.: *See*—
Bibb, C. H., and Palmer.

Panushka, John B., Glendale, and L. A. Wheeler, assignors of one-half to R. H. Clark, and one-half to W. H. Maxwell, Los Angeles, Calif. Hair curler. 2,388,797; Nov. 13.

Papanicolas, James: *See*—
Cordles, Raymond H., assignor.

Pape, Karl, Dover, and A. N. Troshkin, Montclair, assignors to Resistoflex Corporation, Belleville, N. J. Hose coupling. 2,388,992; Nov. 13.

Parker, Donald, Fresno, Calif. Dusting apparatus. 2,388,798; Nov. 13.

Parmenter, Frank D., Toronto, Ontario, Canada. Support for concrete forms. 2,388,865; Nov. 13.

Partridge, John H., Pinner, England, assignor to General Electric Company. Lead glass composition. 2,388,866; Nov. 13.

Patterson, George, Jr., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Television apparatus. 2,388,761; Nov. 13.

Payzer, Stanley D., and N. A. Gray, assignors to D. J. Murray Manufacturing Co., Wausau, Wis. Chipper knife assembly. 2,388,799; Nov. 13.

Pearce, George C., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,388,702; Nov. 13.

Pearce, George C., assignor to General Motors Corporation, Dayton, Ohio. Motor protector. 2,388,800; Nov. 13.

Pearson, Harold E., Bethlehem, Pa., assignor, by mesne assignments, to Realty and Industrial Corporation, Convent, N. J. Circuit breaker control mechanism. 2,388,934; Nov. 13.

Pearson, Herbert, Liversedge, England. Air filter. 2,388,933; Nov. 13.

Perry, Anthony T., Owensboro, Ky., assignor to American Telephone and Telegraph Company. Testing arrangement for trunks to community dial offices. 2,389,076; Nov. 13.

Petermann, William B., et al., trustees: *See*—
Boehmler, Erving M., assignor.

Peters, John G.: *See*—
Cantrell, T. L., and Peters.

Peterson, Adolphe C., Minneapolis, and C. R. Raiter, St. Paul, Minn. Sewage sludge, screenings, and garbage combustion apparatus. 2,389,077.

Peterson, Raymond A., Pasadena, Calif., assignor to United Geophysical Company, Inc. Geological prospecting system. 2,388,703; Nov. 13.

Peterson, Ruben O., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Brush and brush material. 2,388,867; Nov. 13.

Pfau, Howard, Cincinnati, Ohio. Men's neckwear. 2,388,993; Nov. 13.

Phelon, Russell E., assignor to Wico Electric Company, West Springfield, Mass. Centrifugal spark control mechanism for flywheel magnetos. 2,388,994; Nov. 13.

Philco Radio and Television Corporation: *See*—
Patterson, George, Jr., assignor.
Thompson, Elmer O., assignor.

Phillips Petroleum Company: *See*—
Dousiin, D. R., and Welnaug, assignors.

Pollock, Gordon B., South Laguna, Calif. Camera construction. 2,388,995; Nov. 13.

Potter, Leman C., Royal Oak, Mich. Fluid brake. 2,388,704; Nov. 13.

Powell, Edward R., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Mineral wool manufacture. 2,388,935; Nov. 13.

Powers, Frank T., Glen Cove, N. Y. Plate burner. 2,388,762; Nov. 13.

Powers, Paul O., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum composition. 2,389,078; Nov. 13.

Powers, Paul O., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum compositions. 2,389,079; Nov. 13.

Preston, Ralph H., Roseland, assignor to American Transformer Company, Newark 5, N. J. Voltage regulator. 2,388,996; Nov. 13.

Presloso, Giuseppe, Yverdon, Switzerland, assignor to E. Paillard & Cie, S. A. Line spacing device for typewriters. 2,388,936; Nov. 13.

Price, Peter R.: *See*—
Thomas, F. M., and Price.

Puffer, Samuel R., Lynnfield Center, Mass., assignor to General Electric Company. Cooling arrangement for gas turbines. 2,388,997; Nov. 13.

Puffer, Samuel R., Lynnfield Center, Mass., and R. H. Norris, Schenectady, N. Y., assignors to General Electric Company. Gas turbine cooling arrangement. 2,388,998; Nov. 13.

Purdue Research Foundation: *See*—
Hass, Henry B., assignor.

Radio Corporation of America: *See*—
Albin, Frederick G., assignor.
Blain, Albert, assignor.
Brown, George H., assignor.
Le Page, Wilbur R., assignor.
Schroeder, Alfred C., assignor.

Ralter, Clifford R.: *See*—
Peterson, A. C., and Ralter.

Randol, Glenn T., St. Louis, Mo. Transmission control mechanism. 2,388,763; Nov. 13.

Ray, Philip A., Denver, Colo., assignor to Hercules Powder Company, Wilmington, Del. Flotation process for ores containing sodium chloride. 2,389,080; Nov. 13.

Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Fluid control valve. 2,388,868; Nov. 13.

Raybestos-Manhattan, Inc.: *See*—
Kuzmick, Jerome, assignor.

Realty and Industrial Corporation: *See*—
Pearson, Harold E., assignor.

Redmond, Lury B., Fort Leavenworth, Kans., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Galvanometer. 2,389,081; Nov. 13.

Redson-Rice: *See*—
Rice, Ernest G., assignor.

Reiber, Harry P., Toledo, Ohio, assignor to The Aviation Corporation, New York, N. Y. Apparatus for balancing propeller blades. 2,388,705; Nov. 13.

Reichel, Frank H., and R. T. K. Cornwell, assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Cellulose ethers and producing the same. 2,388,764; Nov. 13.

Reichel, Howard G., assignor to Industrial Patents Corporation, Chicago, Ill. Scale mechanism. 2,389,113; Nov. 13.

Reiss, Max, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic objective. 2,388,869; Nov. 13.

Resistoflex Corporation: *See*—
Pape, K., and Troshkin, assignors.

Rhoads, Charles S., Albany, N. Y., assignor to American Telephone and Telegraph Company. Code calling signal. 2,389,082; Nov. 13.

Rice, Ernest G., assignor to Redson-Rice, Chicago, Ill. Counting device. 2,389,107; Nov. 13.

Riesz, Kolman: *See*—
Chapman, J. F., and Riesz.

Riggenbach, John W., Barrington, R. I. Machine for applying multicolored flock. 2,388,999; Nov. 13.

Roberts, Arthur, Cleveland Heights, Ohio, assignor to The Colonnade Company. Valve construction. 2,389,000; Nov. 13.

Robertshaw Thermostat Company: *See*—
Weber, Victor, assignor.

Robertson, H. H., Company: *See*—
Hedgren, Arthur W., assignor.

Roetman, Edmond T., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Sampling device. 2,388,801; Nov. 13.

Rosengren, Bernhard, assignor to The United States Time Corporation, Waterbury, Conn. Device for feeding pinion blanks. 2,389,083; Nov. 13.

Routh, Almond C., Sandusky, Ohio. Apparatus for making flavored confections. 2,389,084; Nov. 13.

Roy, Clyde E., Houston, Tex. Hydraulic safety brake system. 2,388,706; Nov. 13.

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Terpene ethers. 2,388,765; Nov. 13.

Rundell, Rupert E., Rockville Centre, N. Y., assignor to American Machine and Foundry Company. Bowling pin setter. 2,388,707; Nov. 13.

Rundell, Rupert E., Rockville Centre, N. Y., assignor to American Machine and Foundry Company. Pin setter for bowling alleys. 2,388,709; Nov. 13.

Russow, Marshall A., et al.: *See*—
Carter, Hobart E., assignor.

Rustless Iron and Steel Corporation: *See*—
Feild, Alexander L., assignor.

Ruttiman, Alfred, assignor to Harrington & Richardson Arms Company, Worcester, Mass. Handcuff. 2,388,766; Nov. 13.

Ryan, Joseph D., Toledo, Ohio, and F. B. Shaw, Jr., Baltimore, Md., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Polyvinyl ketal acetal resin. 2,388,802; Nov. 13.

Sachs, Alfred H.: *See*—
Schutz, N. R., and Dubitsky, assignors.

Sackett, Herbert S., Windom, Minn. Boat trailer. 2,388,870; Nov. 13.

Safrin, Leopold, Philadelphia, Pa., assignor to Wilson & Co., Inc. Soap composition. 2,388,767; Nov. 13.

Sagendorf, Forrest C., Jackson Heights, N. Y. Animated wall picture. 2,389,085; Nov. 13.

Sanford, Hugh W., Knoxville, Tenn. Valve. 2,388,710; Nov. 13.

Sanozone Corporation: *See*—
Mallmann, W. L., Kain, and Schaefer, assignors.

Sawyer, Clarence H., Naples, Idaho. Boat propulsion means. 2,388,711; Nov. 13.

Scarff, Harold M., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Piston ring clamping device. 2,388,871; Nov. 13.

Scarff, Harold M., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Milling machine. 2,388,872; Nov. 13.

Schaefer, Richard J.: *See*—
Mallmann, W. L., Kain, and Schaefer.

Schatz, Clarence L., Merchantville, N. J. Water ski. 2,389,001; Nov. 13.

Schatzman, George W., and A. P. Fergueson, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Automobile window visor. 2,389,002; Nov. 13.

Schlumberger Well Surveying Corporation: *See*—
Aiken, Charles B., assignor.

Schmerling, Louis, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,388,937; Nov. 13.

Schmidinger, Joseph, Lake George, N. Y. Thermal switch and relay. 2,388,712; Nov. 13.

Schmidt, Henry W., Wilmette, Ill., assignor to General Motors Corporation, Detroit, Mich. Engine turning means. 2,388,803; Nov. 13.

Schorn, Carl F., Detroit, Mich., assignor to G. M. and E. Holley. Spark, supercharger, and throttle control. 2,389,003; Nov. 13.

Schroeder, Alfred C., Feasterville, Pa., assignor to Radio Corporation of America. Keyed multifrequency negative resistance apparatus. 2,389,004; Nov. 13.

Schubert, Frederick C., Cleveland, Ohio, assignor to American Cyanamid Company, New York, N. Y. Production of chlorinated carbocyclic carboxylic acids. 2,389,088; Nov. 13.

Schubert, Alvin E., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic adjustment of lens diaphragms. 2,389,087; Nov. 13.

Schumacher, Edwin B.: *See*—
Furnas, W. C., Schumacher, and Kercher.

Schurch, Jacob H., assignor to Angelus Sanitary Can Machinery Co., Los Angeles, Calif. Can feed mechanism. 2,388,804; Nov. 13.

Schutz, Nathan R., and J. Dubitsky, New York, N. Y., assignors of one-third to A. H. Sachs, Cleveland, Ohio. Adjustable lens mount for gas masks. 2,388,713; Nov. 13.

Schwab, Martin C., Chicago, Ill. Combat vehicle. 2,388,873; Nov. 13.

Schwartz, Hyman, and W. Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., New York, N. Y. Range finder for cameras. 2,388,714; Nov. 13.

Schwartz, Nathan R., New York, N. Y. Combination work lamp and bulb guard. 2,389,089; Nov. 13.

Scott & Williams, Incorporated: *See*—
Lawson, R. H., and Bristow, assignors.

Seaholm, John P., Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Caster wheel mechanism. 2,388,874; Nov. 13.

Sebald, Joseph F., Bloomfield, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Condenser. 2,389,005; Nov. 13.

Secor, Robert B.: *See*—
Gary, W. W., and Secor.

Selas Corporation of America: *See*—
Hess, F. O., and Mann, assignors.
Hess, F. O., and Wakefield, assignors.





Severeid, Lester M., Pine River, Minn. Photographic duplicating and projection machine. 2,388,768; Nov. 13.

Shaffer, William L., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and controlling apparatus. 2,388,709; Nov. 13.

Shaw, Fred B., Jr.: *See*—
Ryan, J. D., and Shaw.

Shields, James E., Niagara Falls, N. Y., and U. B. Bray, Palos Verdes Estates, Calif., assignors to Alox Corporation, New York, N. Y. Lubricating and corrosion-preventing composition. 2,389,090; Nov. 13.

Shriver, T., & Company, Inc.: *See*—
Mueser, Charles, assignor.

Shuttleworth, Howard L., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Loom. 2,389,091; Nov. 13.

Skinner, Charles W., assignor to Fashion Frocks, Inc., Cincinnati, Ohio. Measuring and marking cord lengths. 2,388,875; Nov. 13.

Skog, Henry A.: *See*—
Ewald, R. L., and Skog.

Sloan Valve Company: *See*—
Nelson, R. M., and Bellamy, assignors.

Smith, Algy J., assignor to Hartford-Empire Company, Hartford, Conn. Article forming apparatus. 2,388,876; Nov. 13.

Smith, Lillian T., Chicago, Ill. Window blind. 2,388,715; Nov. 13.

Smith, Walter R., Kansas City, Kans. Feather picker for fowls. 2,389,006; Nov. 13.

Smylie, James G., Houston, Tex. Firing head for gun perforators. 2,388,938; Nov. 13.

Socony-Vacuum Oil Company, Incorporated: *See*—
Marshall, C. D., and Buttrill, assignors.
Redmond, Lury B., assignor.

Sosna, Samuel E., trustee: *See*—
Taylor, George E., assignor.

Souter, Eugene H., Independence, Mo. Squeeze riveter. 2,388,877; Nov. 13.

Special Equipment Company: *See*—
Ewald, R. L., and Skog, assignors.

Spelker, Albert J., assignor to Atha Electrotype & Stereotype Co., Toledo, Ohio. Printing plate manufacture. 2,388,878; Nov. 13.

Sperry Gyroscope Company, Inc.: *See*—
Dawson, Edward, assignor.

Spotts, Daniel G.: *See*—
Furnas, W. G., and Spotts.

Stahl, Donald R., assignor to Metal Specialties Co., Inc., Milwaukee, Wis. Fuel stoker. 2,388,805; Nov. 13.

Stalker, Edward A., Ann Arbor, Mich. Aircraft. 2,388,806; Nov. 13.

Standard Oil Development Company: *See*—
Cohen, Charles A., assignor.
Hall, Ike D., assignor.
Hibshman, H. J., and Knox, assignors.
Holder, Clinton H., assignor.
Morrell, C. E., and Swaney, assignors.
Mottern, Henry O., assignor.
Ogorzaly, Henry J., assignor.

Stanley, Paul H., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Blade structure for aircraft sustaining rotors. 2,388,879; Nov. 13.

Stand, Cyril J.: *See*—
Jackel, E. C., Leermakers, and Staud.

Stein, Elmer L., assignor of one-third to R. Kaczmarek, and one-third to H. F. Johnson, Milwaukee, Wis. Sealing method. 2,388,770; Nov. 13.

Stemar Displays Company: *See*—
Einzig, Henry, assignor.

Stepanoff, Alexey J., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pump for fuel systems. 2,388,939; Nov. 13.

Stephenson, James R., assignor to General Motors Corporation, Dayton, Ohio. Gun cooling apparatus. 2,388,807; Nov. 13.

Stevenson, Halsey B.: *See*—
Coffman, D. D., and Stevenson.

Stewart-Warner Corporation: *See*—
Leslie, John H., II, assignor.
Whitted, John B., assignor.

Stitt, Roger H., Long Lake, assignor to United States Gypsum Company, Chicago, Ill. Manufacturing surface ornamented acoustical tile. 2,388,880; Nov. 13.

Strang, Harold E., Ardmore, Pa., and J. W. Butler, Schenectady, N. Y., assignors to General Electric Company. Protective system. 2,389,007; Nov. 13.

Strauss, Charles, assignor to Arvey Corporation, Chicago, Ill. Dispensing rack. 2,389,092; Nov. 13.

Stuart, Joseph, II, Wilmington, Del. Electric detonator. 2,389,086; Nov. 13.

Superior Steel Corporation: *See*—
Keene, W. L., and Carlson, assignors.

Surface Combustion Corporation: *See*—
Weller, Harvey C., assignor.

Svenson, Ernest J., Rockford, assignor, by mesne assignments, to Odin Corporation, Chicago, Ill. Valve mechanism. 2,388,716; Nov. 13.

Swan, Donald R.: *See*—
Reguin, A. E., and Swan.

Swan, Donald R., assignor to Eastman Kodak Company, Rochester, N. Y. Gelatin coating composition. 2,388,881; Nov. 13.

Swaney, Miller W.: *See*—
Morrell, C. E., and Swaney.

Sylvania Industrial Corporation: *See*—
Reichel, F. H., and Cornwell, assignors.

Talbott, John H., and W. R. Christensen, U. S. Army, Lawrence, Mass. Drawstring fastener. 2,388,717; Nov. 13.

Tann, Beue, Washington, D. C. Cryptographic machine. 2,389,093; Nov. 13.

Tanner, Charles A., Jr.: *See*—
Cauwenberg, W. J., and Tanner.

Taylor, George E., Chicago, Ill., assignor to S. E. Sosna and G. E. Taylor, jointly, as trustees. Spring assembly. 2,388,882; Nov. 13.

Taylor, Robert H., Mayfield, Ky. Solar heater. 2,388,940; Nov. 13.

Taylor, Tracy B., Windsor, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J. Fuse terminal clip. 2,388,883; Nov. 13.

Teletype Corporation: *See*—
Goetz, Maurus T., assignor.

Texas Company, The: *See*—
Hare, Donald G. C., assignor.

Thomas, Frederick M., North Adams, Mass., and P. R. Price, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Airscrew. 2,388,718; Nov. 13.

Thomas, William D., Jr.: *See*—
Cook, E. W., and Thomas.

Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Two-speed motor. 2,388,884; Nov. 13.

Thompson, Leslie E., and A. Jenkins, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Manufacture of alternating current rectifiers of the selenium type. 2,389,008; Nov. 13.

Thompson, Paul H., Wheaton, Ill. Collapsible book rest and holder. 2,388,771; Nov. 13.

Thompson Products, Inc.: *See*—
Booth, James H., assignor.

Thompson, Ross, Durham, N. C., assignor of one-third to H. D. Armstrong. Tamper for cigarette machine feeders. 2,388,772; Nov. 13.

Thompson, William H., Chatham, assignor to Davis Engineering Corporation, Elizabeth, N. J. Evaporator. 2,388,773; Nov. 13.

Thorsson, Matthew, assignor to The Howe Scale Company, Rutland, Vt. Scale. 2,389,108; Nov. 13.

Thyreen, Paul I.: *See*—
Brooksieker, H. H., and Thyreen.

Tice, Hedwig, administratrix: *See*—
Tice, John T.

Tice, John T., deceased, Atlanta, Ga.; H. Tice, administratrix. Lap pin. 2,388,774; Nov. 13.

Tichota, Vencel J., Dodge, Nebr. Draft equalizer. 2,389,094; Nov. 13.

Tillotson, Neil E., Watertown, Mass. Apparatus for making hollow rubber articles. 2,389,009; Nov. 13.

Traumüller, Herbert, Brooklyn, N. Y. Hinge. 2,389,010; Nov. 13.

Trist, Arthur R., London, W. 1, England. Emulsion coating compositions. 2,389,011; Nov. 13.

Trist, Arthur R., London, W. 1, England. Colloidal dispersion of materials. 2,389,012; Nov. 13.

Troshkin, Alexander N.: *See*—
Pape, K., and Troshkin.

Udy, Martin J., Niagara Falls, N. Y. Recovering sodium chromate. 2,388,775; Nov. 13.

Underkofler, Leland A.: *See*—
Fulmer, E. I., Underkofler, and Hickey.

Underwood, Cyril J., assignor to Dowty Equipment Limited, Cheltenham, England. Oleo-pneumatic shock absorber. 2,388,885; Nov. 13.

Union Switch & Signal Company, The: *See*—
Beall, Charles R., assignor.
Bone, Herbert L., assignor.
Crago, Paul H., assignor.
Thompson, L. E., and Jenkins, assignors.

United Geophysical Company, Inc.: *See*—
Peterson, Raymond A., assignor.

United Shoe Machinery Corporation: *See*—
Davis, Emery R., assignor.
Downer, Gerald W., assignor.
Haas, Otto R., assignor.

United States Catheter & Instrument Corp.: *See*—
Jeckel, Norman C., assignor.

United States Gypsum Company: *See*—
Stitt, Roger H., assignor.

United States Rubber Company: *See*—
Wallace, Edward H., assignor.

United States Steel Corporation et al.: *See*—
Greesman, M. A., and Miller, assignors.

United States Time Corporation, The: *See*—
Rosengren, Bernhard, assignor.

Universal Oil Products Company: *See*—
Iverson, John O., assignor.
Nelson, Edwin F., assignor.
Schmerling, L., and Inatieff, assignors.
Zimmerman, Gordon B., assignor.

Upton, Frederick P., New Rochelle, assignor to Geneto Corporation, Mount Vernon, N. Y. Handle-bar switch. 2,389,013; Nov. 13.

Utermohlen, William P., Jr.: *See*—
Hasche, R. L., and Utermohlen.

Van Allan, James A.: *See*—
Allen, C. F. H., and Van Allan.

Veselý, Josef, Winchmore Hill, London, England. Varying the velocity of movement of the breech block in automatic guns. 2,389,095; Nov. 13.

Vickers Incorporated: *See*—
Bonnell, George C., assignor.

Von Bramer, Harold, and L. G. Davy, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. N-sec-butyl-p-nitroaniline. 2,388,886; Nov. 13.

Wakefield, Richard E. B.: *See*—
Hess, F. O., and Wakefield.

Walker, Howard, Philadelphia, Pa. Brake mechanism. 2,389,096; Nov. 13.

Walker, O. S., Co. Inc.: *See*—
Gothia, Daniel F., assignor.

Wallace, Edward H., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Making molds. 2,388,776; Nov. 13.

Walter, Charles T.: *See*—
Newton, L. R., Haase, and Walter.

Warnat, Kurt, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparing purified calcium pantothenate. 2,389,097; Nov. 13.

Weber, Victor, Greensburg, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Temperature regulating device. 2,389,014; Nov. 13.

Weco Products Company: *See*—
Després, Lilly D., assignor.

Wehr, Guy, Steubenville, Ohio. Blast furnace charging bell. 2,388,941; Nov. 13.

Weinaug, Charles F.: *See*—
Dousiin, D. R., and Weinaug.

Weisberger, Arthur A., and E. G. Glick, Hammond, Ind., assignors to American Steel Foundries, Chicago, Ill. Spring winding machine. 2,389,109; Nov. 13.

Weissberger, Arnold, and J. L. Leiserson, assignors to Eastman Kodak Company, Rochester, N. Y. Gel and gelling agent. 2,388,887; Nov. 13.

Welch, Philip J., Brookline, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Expanding tubes in tube seats. 2,389,098; Nov. 13.

Welding Service, Inc.: *See*—
Frickey, R. E., and McKee, assignors.

Weller, Harvey C., assignor to Surface Combustion Corporation, Toledo, Ohio. Furnace for heating lens blanks. 2,388,888; Nov. 13.

Wenner, Wilhelm, Upper Montclair, assignor to Hoffman-La Roche, Inc., Roche Park, Nutley, N. J. Production of diamino succinic acid. 2,389,099; Nov. 13.

Wentz, Jere L., Passaic, N. J. Exercising apparatus. 2,388,777; Nov. 13.

Western Electric Company, Incorporated: *See*—
Anderson, D. G., and Fairfield, assignors.
Bandur, Adolph F., Dillinger, and Ogden, assignors.
Bugler, A. G., and Heath, assignors.
Corderman, Roy C., assignor.
Martindell, Frank, assignor.

Westinghouse Air Brake Company, The: *See*—
Bent, Arthur J., assignor.
Hewitt, Ellis E., assignor.
Hines, Claude M., assignor.
Kelley, Cecil S., assignor.
Whitney, Ralph T., assignor.

Westinghouse Electric Corporation: *See*—
Chapman, J. F., and Riesz, assignors.
Gottlieb, Manious, assignor.
Newton, John S., assignor.
Welch, Philip J., assignor.

Wheeler, John D., Vancouver, Wash. Crutch. 2,388,778; Nov. 13.

Wheeler, Leonard A.: *See*—
Panushka, J. B., and Wheeler.

Whelan, William B., Chicago, Ill. Rotary electrical apparatus. 2,388,889; Nov. 13.

White, Gerald, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Tempering glass. 2,388,808; Nov. 13.

White, Gerald, and D. E. Grimes, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for use in the tempering of glass. 2,388,809; Nov. 13.

Whitney, Ralph T., Irwin, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,389,100; Nov. 13.

Whitted, John B., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Four-way valve. 2,388,890; Nov. 13.

Whittemore, Winthrop C., Port Washington, assignor to The Dentists' Supply Company, New York, N. Y. Denture articulator. 2,389,101; Nov. 13.

Wico Electric Company: *See*—
Phelon, Russell E., assignor.

Wiczer, Sol B., Washington, D. C. Solidified unstable compounds. 2,388,719; Nov. 13.

Williams, Benjamin F., Salem, Oreg. Respiratory mask. 2,389,102; Nov. 13.

Williams, Beverly E., and L. L. Cadwell, assignors to Industrial Patents Corporation, Chicago, Ill. Treating carcasses. 2,388,891; Nov. 13.

Willis, Bernard D., deceased, Oak Park, by W. W. Owen, Elgin, Ill., executor, assignor to Automatic Electric Laboratories, Inc. Automatic switching system. 2,388,810; Nov. 13.

Wilson & Co., Inc.: *See*—
Safrin, Leopold, assignor.

Wilson, Earl L., assignor to Columbian Rope Company, Auburn, N. Y. Ladder. 2,388,892; Nov. 13.

Wood Conversion Company: *See*—
Brownlee, Robert N., assignor.

Wood, Donald L., assignor to Eastman Kodak Company, Rochester, N. Y. Lens. 2,388,893; Nov. 13.

Wood, Edmund P., et al., trustees: *See*—
Boehmler, Erving M., assignor.

Wood, Fremont E., Gabbs Valley, Nev. Motor ignition control. 2,389,103; Nov. 13.

Wormell, Robert L., Coventry, assignor to Courtaulds Limited, London, England. Manufacture of artificial textile fibers. 2,389,015; Nov. 13.

Worthington Pump and Machinery Corporation: *See*—
Sebald, Joseph F., assignor.

Wright-Batcheider Corporation: *See*—
Wright, Wallace C., assignor.

Wright, Marcus G., assignor of thirty-five one-hundredths to T. P. Campbell and thirty-five one-hundredths to W. M. Owen, Denver, Colo. Drilling apparatus. 2,388,720; Nov. 13.

Wright, Wallace C., Brookfield, N. H., assignor to Wright-Batcheider Corporation, Boston, Mass. Welt insole and sewing rib for attachment thereto. 2,389,114; Nov. 13.

Wynne, Charles G., Leicester, England. Optical objective. 2,389,016; Nov. 13.

Yackel, Edward C., J. A. Leermakers, and C. J. Staud, assignors to Eastman Kodak Company, Rochester, N. Y. Developing photographic emulsions. 2,388,894; Nov. 13.

Young, Harold W., Maywood, Calif. Rivet set. 2,388,895; Nov. 13.

Zaloudek, William A.: *See*—
Hobbs, H. H., and Zaloudek.

Zatko, Michael, Oaklawn, Ill. Welder's comforting and accessory suspension belt. 2,388,811; Nov. 13.

Zimmerman, Gordon B., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,388,942; Nov. 13.


# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).


Rhythmeter for determining sterility and fertility. G. L. Tilbrook. Re. 22,692; Nov. 13.

Shuttlecock machine. W. E. Humphrey. Re. 22,691; Nov. 13.


# LIST OF DESIGN INVENTIONS


Airplane. T. P. Hall. 142,861–2; Nov. 13.
Blanket, Dog. A. Ardmore. 142,815; Nov. 13.
Boat. W. H. Miller. 142,889; Nov. 13.
Bracelet or similar article. D. H. Millard. 142,887; Nov. 13.
Bracelet or similar article, Flexible band for a. V. Guglielmi. 142,859; Nov. 13.
Bracelet or similar article, Link chain for. M. Rossein. 142,908; Nov. 13.
Brooch or similar article. N. Barbieri. 142,816–26; Nov. 13.
Brooch or similar article. A. Philippe. 142,905; Nov. 13.
Brooch or similar article. G. Verrecchio. 142,921; Nov. 13.
Brush, Tooth. R. D. Strieby. 142,917; Nov. 13.
Cabinet, Merchandise display. F. M. Ingersoll. 142,865; Nov. 13.
Cap, Container. P. A. Derham. 142,844; Nov. 13.
Chandelier. G. Kauders. 142,871; Nov. 13.
Cigarette case and compact, Combination. L. Katz. 142,870; Nov. 13.
Clothespin. A. M. Andrews. 142,813; Nov. 13.
Coupling and clamping device, Combination pipe. W. S. Campbell. 142,834; Nov. 13.
Coupling for a drawn vehicle, Gooseneck. W. E. Martin. 142,881–4; Nov. 13.
Coupling for holding paint brushes, Jar. T. O. Fredell. 142,849; Nov. 13.
Deflector, Air. R. M. Clayton. 142,835; Nov. 13.
Desk and blackboard, Combined. S. H. Geffner. 142,850; Nov. 13.
Dispenser, Match. F. R. McNine. 142,886; Nov. 13.
Doll. L. R. Reinert. 142,907; Nov. 13.
Dress. S. Aber. 142,907–8; Nov. 13.
Dress. E. Cutler. 142,839; Nov. 13.
Dress. Z. Golden. 142,854–7; Nov. 13.
Dress. A. M. Kats. 142,860; Nov. 13.
Dress. J. Walker. 142,926; Nov. 13.
Earring. F. Morrow. 142,890–2; Nov. 13.
Fabric, Textile. J. Gl[illegible] 142,853; Nov. 13.
Folder for bills, pictu[illegible]rds, or the like, Combined. J. Wagner. 142,923.
Food tray and cup, Comb[illegible]. O. Buxbaum. 142,831; Nov. 13.
Fork or other article of flatware. I. A. Lipman. 142,875–8; Nov. 13.
Frame, Picture. W. McCrory. 142,885; Nov. 13.
Frame, Spectacle. A. and E. Barrett. 142,827; Nov. 13.
Game board. C. R. Billington. 142,830; Nov. 13.
Game board. H. I. Hagloch and L. W. Rose. 142,860; Nov. 13.
Grill, Portable foldable. U. K. Johannsen. 142,866; Nov. 13.
Guard for sewing machine operators, Face. J. F. Imberman. 142,864; Nov. 13.
Handbag. B. Calem. 142,832; Nov. 13.
Handbag. G. J. Glick. 142,852; Nov. 13.
Handle, Valve. R. H. Wright. 142,928; Nov. 13.
Hangar, Airplane. A. E. Rausenbach. 142,828; Nov. 13.
Hat. S. Behr. 142,829; Nov. 13.
Heater, Combination wood and coal. R. C. Calton. 142,833; Nov. 13.
Holder, Cigarette. R. E. Daze. 142,842; Nov. 13.
Holder for cigarettes and matches, Combined. L. M. Provost. 142,906; Nov. 13.
Holder, Razor blade. C. Dresdner. 142,845; Nov. 13.
Jacket. Z. Golden. 142,858; Nov. 13.
Jointer or similar article. R. H. Andresen. 142,811; Nov. 13.
Lathe or similar article, Wood turning. R. H. Andresen. 142,812; Nov. 13.
Lighter for cigarettes or the like. L. A. Cutrow. 142,840; Nov. 13.
Pin. J. V. Ecker. 142,846; Nov. 13.
Pin or similar article, Jewelry. F. Morrow. 142,893–901; Nov. 13.
Pipe, Smoking. C. W. Von Rosenberg. 142,922; Nov. 13.
Pitcher, Covered. J. B. Ward. 142,927; Nov. 13.
Plate. S. L. Gerson. 142,851; Nov. 13.
Pliers. A. H. Miller. 142,888; Nov. 13.
Pliers or similar article, Pair of. E. L. Johnson, Jr. 142,867; Nov. 13.
Range. J. D. Coleman. 142,837; Nov. 13.
Refrigerator, Display. C. B. Shreve. 142,910; Nov. 13.
Ring, Finger. H. J. Jung. 142,868; Nov. 13.
Saw or similar article, Band. R. H. Andresen. 142,810; Nov. 13.
Saw or similar article, Circular. R. H. Andresen. 142,809; Nov. 13.
Scarf, Head. B. B. Smith and E. Z. Cauter. 142,915; Nov. 13.
Seat, Infant's portable toilet. S. S. Schnittmann. 142,909; Nov. 13.
Sharpener, Knife. A. W. Loucony. 142,880; Nov. 13.
Sharpener, Pencil. E. C. Hoffmann. 142,863; Nov. 13.
Shelf, Refrigerator. O. H. Paddock. 142,904; Nov. 13.
Shelf, Wall. N. Vander Bloomen. 142,920; Nov. 13.
Shoe. J. P. Famolare. 142,847; Nov. 13.
Shoe or the like, Woman's. G. Codish. 142,836; Nov. 13.
Shower head attachment for bath salts. O. d'Algodt. 142,841; Nov. 13.
Slipper. M. S. Silver. 142,914; Nov. 13.
Spoon or similar article. G. L. Turner. 142,918; Nov. 13.
Stand or the like, Crocheting. T. B. Owens. 142,903; Nov. 13.
Stand, Telephone desk. G. Deakin. 142,843; Nov. 13.
Suit, Lady's. S. Kuznetz. 142,874; Nov. 13.
Support, Maternity garter. A. K. Collins and L. R. Hamilton. 142,838; Nov. 13.
Telephone, Field. C. A. Knorr. 142,873; Nov. 13.
Tenderizing machine, Meat. J. P. Spang. 142,916; Nov. 13.
Tool unit, Machine. W. D. Archea. 142,814; Nov. 13.
Toy for children, Educational. H. Shrier. 142,911; Nov. 13.
Toy wagon. E. F. Silkman. 142,912; Nov. 13.
Toy, Wooden pull. E. F. Silkman. 142,913; Nov. 13.
Tray. A. Kerby. 142,872; Nov. 13.
Tray or article of similar nature. N. Moss. 142,902; Nov. 13.
Walker, Baby. J. P. Fegely. 142,848; Nov. 13.
Wallpaper. F. Urschel. 142,919; Nov. 13.
Washing machine. G. W. Walker. 142,924–5; Nov. 13.
Watch and bracelet, Combined. A. R. Livingston. 142,879; Nov. 13.

# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetylenes from light hydrocarbons, Separating. I. D. Hall. 2,388,913; Nov. 13.
Acid, Manufacture of nicotinic. J. Lee and S. D. Heineman. 2,389,065; Nov. 13.
Acid, Production of diamino succinic. W. Wenner. 2,389,099; Nov. 13.
Acids, Aliphatic dibasic. C. F. H. Allen and J. A. Van Allan. 2,388,813; Nov. 13.
Acids, Production of chlorinated carboxylic. F. C. Schubart. 2,389,088; Nov. 13.
Adapter for sand blast machines, Regulating and reducing. E. C. Bick. 2,388,818; Nov. 13.
Adhesives and their manufacture. E. W. Eweson. 2,388,910; Nov. 13.
Adjustable lens mount for gas masks. N. R. Schutz and J. Dubitsky. 2,388,713; Nov. 13.
Agricultural device. N. Z. Hebert. 2,388,689; Nov. 13.
Aircraft. E. A. Stalker. 2,388,806; Nov. 13.
Aircraft heater control apparatus. J. H. Leslie, II. 2,388,853; Nov. 13.
Air filter. H. Pearson. 2,388,933; Nov. 13.
Airplane. H. A. Hofgren. 2,388,973; Nov. 13.
Airplane heating means. F. O. Hess and C. P. Mann. 2,388,970; Nov. 13.
Airplane heating system. F. O. Hess and R. E. B. Wakefield. 2,388,969; Nov. 13.
Airscrew. F. M. Thomas and P. R. Price. 2,388,718; Nov. 13.
Alkylation process, Hydrogen fluoride. J. O. Iverson. 2,388,918–19; Nov. 13.
Aluminum hydrate from clay, Extracting. S. C. Lyons. 2,388,983; Nov. 13.
Ammunition link, Disintegrating. H. J. Alter. 2,388,943; Nov. 13.
Apparatus and method for sanitizing. W. L. Mallmann, C. H. Kain, and R. J. Schaefer. 2,388,753; Nov. 13.
Apparatus for applying adhesive to container body ends. H. A. Fink. 2,388,911; Nov. 13.
Apparatus for balancing propeller blades. H. P. Reiber. 2,388,705; Nov. 13.
Apparatus for making flavored confections. A. C. Routh. 2,389,084; Nov. 13.
Apparatus for making hollow rubber articles. N. E. Tillotson. 2,389,009; Nov. 13.
Apparatus for marking egg-laying hens. J. A. Beam. 2,388,898; Nov. 13.
Apparatus for producing intercoupled relatively movable castings. L. H. Morin. 2,388,986; Nov. 13.
Apparatus for use in the tempering of glass. G. White and D. E. Grimes. 2,388,809; Nov. 13.
Aroylaminonitrodiphenylamine. C. S. Argyle. 2,388,663; Nov. 13.
Article forming apparatus. A. J. Smith. 2,388,876; Nov. 13.
Articulator, Denture. W. C. Whittemore. 2,389,101; Nov. 13.
Automatic nozzle. R. T. Kilman. 2,388,852; Nov. 13.
Automatic switching system. B. D. Willis. 2,388,810; Nov. 13.
Automatic valve. R. H. Lacart, R. H. Gilbert, and H. L. Beekley. 2,388,696; Nov. 13.
Automobile window screen. F. Kolarik. 2,388,747; Nov. 13.
Azo-methine compounds, Manufacture of. T. L. Cantrell and J. G. Peters. 2,388,903; Nov. 13.
Back lash take-up. T. W. Feeney. 2,389,035; Nov. 13.
Backpart forming machine. E. R. Davis. 2,388,726; Nov. 13.
Badge. J. A. Dondero. 2,388,728; Nov. 13.
Ball, disk, and drum mechanism. E. Dawson. 2,388,680; Nov. 13.
Barbecue. A. E. Cramer. 2,388,831; Nov. 13.
Beet cleaner. J. A. Harwood. 2,388,740; Nov. 13.
Belt, Welder's comforting and accessory suspension. M. Zatko. 2,388,811; Nov. 13.
Benzenes and naphthalenes, Making primary alkylated. E. J. Mills, Jr. 2,388,758; Nov. 13.
Biological materials and products resulting therefrom, Preservation of. J. C. Hormel. 2,388,917; Nov. 13.
Blade structure for aircraft sustaining rotors. P. H. Stanley. 2,388,879; Nov. 13.
Blind, Window. L. T. Smith. 2,388,715; Nov. 13.
Blocks, Forming earth building. J. A. Davis. 2,388,679; Nov. 13.
Blouse. S. Mirsky. 2,388,926; Nov. 13.
Boat propulsion means. C. H. Sawyer. 2,388,711; Nov. 13.
Bookmark. L. Germain. 2,388,736; Nov. 13.
Book rest and holder, Collapsible. P. H. Thompson. 2,388,771; Nov. 13.
Bottle closure. J. F. Millard. 2,389,072; Nov. 13.
Bowling pin setter. R. E. Rundell. 2,388,707; Nov. 13.
Brake: *See*—
Fluid brake. Fluid pressure brake.
Brake mechanism. H. Walker. 2,389,096; Nov. 13.
Brake valve device. E. E. Hewitt. 2,389,048; Nov. 13.
Braking device. H. E. Davidson. 2,389,031; Nov. 13.
Brassière. A. Miller. 2,388,737; Nov. 13.
Broach sharpening machine. H. H. Gotberg. 2,388,785; Nov. 13.
Broach, Tube sizing. J. Y. Blasek. 2,388,948; Nov. 13.
Brush and brush material. R. O. Peterson. 2,388,867; Nov. 13.
Buckle. A. Loos, Jr. 2,388,752; Nov. 13.
Building construction. A. W. Hedgren. 2,388,968; Nov. 13.
Burner: *See*—
Plate burner. Vaporizing burner.
Burner control mechanism. G. D. Bower. 2,388,666; Nov. 13.
Burner with scoop pilot ring. Pot type. B. Hayter. 2,388,914; Nov. 13.
Butadiene from actylenes, Separating. C. E. Morrell and M. W. Swaney. 2,388,928; Nov. 13.
Butenes from a sulphuric acid solution thereof, Recovery and regeneration of normal. H. J. Hibshman and W. T. Knox, Jr. 2,388,971; Nov. 13.
Cabinet for foods or the like. S. Knapp. 2,388,746; Nov. 13.
Cabinet or the like. L. Kaiser. 2,388,978; Nov. 13.
Cable slitter. R. J. Montgomery. 2,388,698; Nov. 13.
Cable splicing clamp. H. H. Merriman. 2,388,862; Nov. 13.
Calcium pantothenate, Preparing purified. K. Warnat. 2,389,097; Nov. 13.
Calculating machine. H. L. Lambert. 2,389,062; Nov. 13.
Camera construction. G. B. Pollock. 2,388,995; Nov. 13.
Can feed mechanism. J. H. Schurch. 2,388,804; Nov. 13.
Carbonator. J. Kantor. 2,388,850; Nov. 13.
Carcasses, Treating. B. E. Williams and L. L. Cadwell. 2,388,891; Nov. 13.
Casein, Production of. W. F. Oatman. 2,388,991; Nov. 13.
Caster wheel mechanism. J. P. Seaholm. 2,388,874; Nov. 13.
Catalysts, Drying pelleted. W. W. Gary and R. B. Secor. 2,388,735; Nov. 13.
Catalysts, Regeneration of nickel alloy. J. Drew. 2,388,959; Nov. 13.
Catheters, Method and machine for making. N. C. Jeckel. 2,388,693; Nov. 13.
Cellulose ethers and producing the same. F. H. Reichel and R. T. K. Cornwell. 2,388,764; Nov. 13.
Centrifugal spark control mechanism for flywheel magnetos. R. E. Phelon. 2,388,994; Nov. 13.
Cereal product, Making. F. A. Collatz. 2,388,904; Nov. 13.
Chipper knife assembly. S. D. Payzer and N. A. Gray. 2,388,799; Nov. 13.
Cigarette or the like, Multiple. H. R. Bauer and W. A. Bogg. 2,389,104; Nov. 13.
Clamp: *See*—
Cable splicing clamp.
Cleaner: *See*—
Beet cleaner. Suction cleaner.
Cleaning composition, Dry. L. H. Flett. 2,388,962; Nov. 13.
Clip: *See*—
Fuse terminal clip.
Closure, Container. A. Gudheim. 2,388,738; Nov. 13.
Closure or shutter, Headlamp. C. H. Kuschel and H. C. Brill. 2,388,787–8; Nov. 13.
Closure, Transparent. M. Knight and C. D. Lowry. 2,388,786; Nov. 13.
Coating composition for bituminous surfaces, Adhesive and adherent. M. H. Hecht. 2,388,846; Nov. 13.
Coating composition, Gelatin. D. R. Swan. 2,388,881; Nov. 13.
Coating compositions, Emulsion. A. R. Trist. 2,389,011; Nov. 13.
Code calling signal. C. S. Rhoads. 2,389,082; Nov. 13.
Collating machine, Paper. C. L. Leifer. 2,389,066; Nov. 13.
Colloidal dispersions of materials. A. R. Trist. 2,389,012; Nov. 13.





Color printing system. W. T. Hansen, Jr. 2,388,842; Nov. 13.
Combat vehicle. M. C. Schwab. 2,388,873; Nov. 13.
Communication system. R. C. Corderman. 2,388,906; Nov. 13.
Compounds, Dibenzanthrone. E. G. Beckett. 2,388,665; Nov. 13.
Condenser. J. F. Sebald. 2,389,005; Nov. 13.
Confection. B. Atkinson. 2,388,815; Nov. 13.
Connector: *See*—
Wire connector.
Connector. R. H. Corliss. 2,388,954; Nov. 13.
Constructing shell-form structures, Method and apparatus for. W. Neff. 2,388,701; Nov. 13.
Control apparatus. M. Gottlieb. 2,389,040; Nov. 13.
Control apparatus, Fluid pressure. A. J. Bent. 2,389,020; Nov. 13.
Control means. E. J. Dillman. 2,389,111; Nov. 13.
Control mechanism. W. W. Criley. 2,388,832; Nov. 13.
Control mechanism, Circuit breaker. H. E. Pearson. 2,388,934; Nov. 13.
Controlled swivel joint. D. W. Goodwin. 2,388,841; Nov. 13.
Cooling apparatus, Gun. J. R. Stephenson. 2,388,807; Nov. 13.
Cooling arrangement for gas turbines. S. R. Puffer. 2,388,997; Nov. 13.
Cooling arrangement, Gas turbine. S. R. Puffer and R. H. Norris. 2,388,998; Nov. 13.
Cooling system. C. D. Marshall and C. O. Buttrill. 2,389,106; Nov. 13.
Corset stay mounting. L. Forget. 2,389,037; Nov. 13.
Counting device. E. G. Rice. 2,389,107; Nov. 13.
Coupling: *See*—
Hose coupling.
Crutch. J. D. Wheeler. 2,388,778; Nov. 13.
Cryptographic machine. B. Tann. 2,389,093; Nov. 13.
Curler, Hair. W. H. Maxwell. 2,388,791–2; Nov. 13.
Curler, Hair. J. B. Panushka and L. A. Wheeler. 2,388,797; Nov. 13.
Current rectifiers of the selenium type, Manufacture of alternating. L. E. Thompson and A. Jenkins. 2,389,008; Nov. 13.
Demulsifying and settling apparatus, Liquid. W. M. Mount. 2,388,796; Nov. 13.
Detecting flaws in rails, Method and apparatus for. R. E. Frickey and C. W. McKee. 2,388,683; Nov. 13.
Device for binding. H. Einzig. 2,388,960; Nov. 13.
Device for feeding pinion blanks. B. Rosengren. 2,389,083; Nov. 13.
Diaphragm valve. C. Muesser. 2,388,988–9; Nov. 13.
Dibenzanthrone compounds, Manufacture of. E. T. Howell. 2,388,743; Nov. 13.
Die. H. K. Egli. 2,388,838; Nov. 13.
Diolefins from ethylene, steam, and calcium carbide, Preparing. C. H. Holder. 2,388,916; Nov. 13.
Dispensing apparatus. J. F. Longhway. 2,389,068; Nov. 13.
Dispensing rack. C. Strauss. 2,389,092; Nov. 13.
Distillation, Method of and apparatus for. A. Latham, Jr. 2,389,064; Nov. 13.
Domestic appliance. M. E. Fry. 2,388,839; Nov. 13.
Domestic appliance. G. C. Pearce. 2,388,702; Nov. 13.
Draft control for heaters. T. C. Cheasley. 2,388,829; Nov. 13.
Drafting mechanism for textile fibers. J. Noguera. 2,388,760; Nov. 13.
Drawstring fastener. J. H. Talbott and W. R. Christensen. 2,388,717; Nov. 13.
Drawer for vertical filing cabinets, Swing front face. A. H. Lieske. 2,388,922; Nov. 13.
Drilling apparatus. M. G. Wright. 2,388,720; Nov. 13.
Driving mechanism. W. J. Morrill. 2,388,699–700; Nov. 13.
Dust separation, Grinding. A. L. Feild. 2,388,731; Nov. 13.
Dusting apparatus. D. Parker. 2,388,798; Nov. 13.
Dyestuffs, Cyanine. D. J. Fry and J. D. Kendall. 2,388,963; Nov. 13.
Electric chucks, Fabrication of. D. F. Gotha. 2,388,737; Nov. 13.
Electric control system. E. H. Haug. 2,388,845; Nov. 13.
Electric detonator. J. Stuart, II. 2,389,086; Nov. 13.
Electric flasher. P. H. Chase and J. V. O'Neill. 2,388,780; Nov. 13.
Electric ignition system for gaseous fuel burners. B. C. Douglas. 2,388,909; Nov. 13.
Electrical apparatus. C. E. Bennett. 2,388,899; Nov. 13.
Electrical apparatus, Rotary. W. B. Whelan. 2,388,889; Nov. 13.
Electrical controlling apparatus. P. H. Crago. 2,388,956; Nov. 13.
Electrical device. A. G. Bugler and H. P. Heath. 2,388,667; Nov. 13.
Electrical indicating instrument. R. A. Ammon. 2,388,897; Nov. 13.
Electrical instrument mounting. J. F. Chapman and K. Riesz. 2,388,675; Nov. 13.
Electrical method and apparatus for logging boreholes. C. B. Aiken. 2,388,896; Nov. 13.
Electrical strain gauge. V. S. Harrison. 2,388,966; Nov. 13.
Electrically separated flush valve. R. M. Nelson and J. I. Bellamy. 2,388,990; Nov. 13.
Electrode cooler for electric arc furnaces. J. R. Dubsky. 2,389,033; Nov. 13.
Electronic brake control apparatus. C. M. Hines. 2,389,049; Nov. 13.
Electronic brake control apparatus. C. M. Hines. 2,389,051; Nov. 13.
Electronic brake control system. C. M. Hines. 2,389,050; Nov. 13.
Electronic trigger method and circuit. F. G. Albin. 2,388,812; Nov. 13.
Electropneumatic brake system. C. M. Hines. 2,389,052; Nov. 13.
Emulsions, Mixed grain. L. D. Mannes and L. Godowsky, Jr. 2,388,859; Nov. 13.
Engine: *See*—
Multiple opposed piston engine.
Engine turning means. H. W. Schmidt. 2,388,803; Nov. 13.
Equalizer, Draft. V. J. Tichota. 2,389,094; Nov. 13.
Esters of alpha-ethacrylic acid. R. L. Hasche and W. P. Utermohlen, Jr. 2,388,844; Nov. 13.
Evaporator. W. H. Thompson. 2,388,773; Nov. 13.
Exercising apparatus. J. L. Wentz. 2,388,777; Nov. 13.
Extracting apparatus. K. Finsterbusch. 2,388,732; Nov. 13.
Fastener: *See*—
Drawstring fastener. Refrigerator door fastener.
Feather picker for fowls. W. R. Smith. 2,389,006; Nov. 13.
Feed device, Ammunition. G. W. Downer. 2,388,958; Nov. 13.
Feed mechanism for cartridge belts. G. T. Bixby. 2,388,670; Nov. 13.
Fiber felts, Forming. R. N. Brownlee. 2,389,024; Nov. 13.
Fibers, Manufacture of artificial textile. R. L. Wormell. 2,389,015; Nov. 13.
Filament treating system. F. A. Barta. 2,388,945; Nov. 13.
File holder. M. A. Jaynes. 2,388,920; Nov. 13.
Film, Subbing photographic. A. E. Beguin and D. R. Swan. 2,388,817; Nov. 13.
Filter: *See*—
Air filter.
Filter. H. E. Carter. 2,388,668; Nov. 13.
Firing head for gun perforators. J. G. Smylie. 2,388,938; Nov. 13.
Fishing reel. J. T. King. 2,388,979; Nov. 13.
Flexible polymeric product and making same. C. O. Guss and R. W. Amidon. 2,388,685; Nov. 13.
Flow responsive switch. N. Brewer. 2,388,671; Nov. 13.
Fluid brake. L. C. Potter. 2,388,704; Nov. 13.
Fluid control valve. W. A. Ray. 2,388,868; Nov. 13.
Fluid pressure brake. R. T. Whitney. 2,389,100; Nov. 13.
Flushing apparatus. W. J. Dunn. 2,388,836; Nov. 13.
Four-way valve. J. B. Whitted. 2,388,800; Nov. 13.
Fractionation. E. F. Nelson. 2,388,931; Nov. 13.
Frame for eyeglasses. P. M. Brown. 2,389,023; Nov. 13.
Fruit treating apparatus. R. L. Ewald and H. A. Skog. 2,388,632; Nov. 13.
Furfural purification. D. R. Douslin and C. F. Weinaug. 2,388,834; Nov. 13.
Furnace. A. T. Johanson. 2,388,976; Nov. 13.
Furnace charging bell, Blast. G. Wehr. 2,388,941; Nov. 13.
Furnace for heating lens blanks. H. C. Weller. 2,388,888; Nov. 13.
Fuse. J. J. Horan. 2,388,691; Nov. 13.
Fuse terminal clip. T. B. Taylor. 2,388,863; Nov. 13.
Galvanometer. L. B. Redmond. 2,389,081; Nov. 13.
Gap adjuster, Spark plug. J. C. Coombs. 2,388,953; Nov. 13.
Gases, Analyzing. D. G. C. Hare. 2,389,046; Nov. 13.
Gauge: *See*—
Electrical strain gauge.
Gear reduction unit, Worm. W. Noble. 2,388,863; Nov. 13.
Gel and gelling agent. A. Weissberger and J. L. Leiserson. 2,388,887; Nov. 13.
Geological prospecting system. B. A. Peterson. 2,388,703; Nov. 13.
Glass composition, Lead. J. H. Partridge. 2,388,866; Nov. 13.
Glass, Tempering. G. White. 2,388,808; Nov. 13.
Glossmeter. E. C. Dench. 2,388,727; Nov. 13.
Glycerol production. E. I. Fulmer, L. A. Underkofler, and R. J. Hickey. 2,388,840; Nov. 13.
Governor, Speed. C. R. Beall. 2,388,946; Nov. 13.
Grinding wheel mounting. R. H. Lombard. 2,388,697; Nov. 13.
Handcuff. A. Ruttiman. 2,388,766; Nov. 13.
Handle-bar switch. F. P. Upton. 2,389,013; Nov. 13.

Hanger: *See*—
Sucker rod hanger. Trolley wire hanger.
Heat exchanger. G. E. Clancy. 2,388,721; Nov. 13.
Heat treating dielectric materials, Method of and apparatus for. G. H. Brown. 2,388,824; Nov. 13.
Heater: *See*—
Solar heater.
Heating device. L. A. Burrows. 2,388,901; Nov. 13.
Heating furnace and burner therefor. F. A. Corbin and H. F. Netzhammer. 2,389,027; Nov. 13.
Hinge. H. Traumüller. 2,389,010; Nov. 13.
Holder: *See*—
File holder.
Holder for line throwing guns, Cord. A. T. La Pierre. 2,388,749; Nov. 13.
Hose coupling. K. Pape and A. N. Troshkin. 2,388,992; Nov. 13.

Hydraulic drilling device. R. R. Hays. 2,388,741; Nov. 13.
Hydraulic lift mechanism. S. B. McLeod. 2,388,755; Nov. 13.
Hydraulic lift truck. H. E. Page. 2,388,864; Nov. 13.
Hydraulic safety brake system. C. E. Roy. 2,388,706; Nov. 13.
Hydrocarbon oil composition. E. W. Cook and W. D. Thomas, Jr., 2,389,110; Nov. 13.
Hydrocarbon oils, Treatment of. L. Schmerling and V. N. Ipatieff. 2,388,937; Nov. 13.
Hydrocarbons, Conversion of. G. B. Zimmerman. 2,388,942; Nov. 13.
Hydrocarbons, Production of high-purity aromatic. D. F. Gould. 2,389,041; Nov. 13.
Ignition control, Motor. F. E. Wood. 2,389,103; Nov. 13.
Implement hitch. B. C. Kuntz. 2,388,981; Nov. 13.
Indicator: *See*—
Slow feed indicator.
Infant's toilet seat. R. C. Lewis. 2,388,856; Nov. 13.
Inflammable gases, Treating. F. J. Kurth. 2,389,059; Nov. 13.
Ink pad and spreader assembly. J. A. Dondero. 2,388,729; Nov. 13.
Insecticide. S. I. Gertler and H. L. J. Haller. 2,388,684; Nov. 13.
Insole and sewing rib for attachment thereto, Welt. W. C. Wright. 2,389,114; Nov. 13.
Inspection apparatus, Glass. L. I. Louvlaux. 2,388,789; Nov. 13.
Inspiration for gas burners. A. E. Moxley. 2,388,930; Nov. 13.
Intervalometer. H. R. Habig. 2,388,686; Nov. 13.
Isomerization process, Continuous. H. J. Ogorzaly. 2,388,932; Nov. 13.
Joint: *See*—
Controlled swivel joint.
Joint assembly, Roller bearing. J. H. Booth. 2,388,950; Nov. 13.
Knitting machine. R. H. Lawson and P. W. Bristow. 2,388,750; Nov. 13.
Knitting machine and marking attachment therefor, Flat hosiery. E. R. Ammon. 2,388,944; Nov. 13.
Ladder. E. L. Wilson. 2,388,892; Nov. 13.
Ladder apparatus, Inter-deck. N. L. Dahlander. 2,388,678; Nov. 13.
Lamp and bulb guard, Combination work. N. R. Schwartz. 2,389,089; Nov. 13.
Lap pin. J. T. Tice. 2,388,774; Nov. 13.
Lens. D. L. Wood. 2,388,893; Nov. 13.
Lens diaphragms, Automatic adjustment of. A. E. Schubert. 2,389,087; Nov. 13.
Link. H. B. Holroyd. 2,388,690; Nov. 13.
Linoleum composition. P. O. Powers. 2,389,078–9; Nov. 13.
Liquid measuring apparatus. D. G. Anderson and W. B. Fairfield. 2,388,662; Nov. 13.
Load handling mechanism. C. W. Morrison. 2,388,987; Nov. 13.
Loader for self-propelled vehicles, Front end. J. W. Crabtree. 2,389,029; Nov. 13.
Loom. H. L. Shuttleworth. 2,389,091; Nov. 13.
Lubricating and corrosion-preventing composition. J. E. Shields and U. B. Bray. 2,389,090; Nov. 13.
Machine for applying multicolored flock. J. W. Riggenbach. 2,388,909; Nov. 13.
Machine for manufacturing molded pulp articles. M. P. Chaplin. 2,388,828; Nov. 13.
Machine for welding. F. Martindell. 2,388,754; Nov. 13.
Magnetic material. A. F. Bandur, J. F. Dillinger, and A. N. Ogden. 2,388,664; Nov. 13.
Magnetic shielding for transformers and the like. W. G. Howe. 2,388,848; Nov. 13.
Manifold for internal-combustion engines, Exhaust manifold for. P. E. Mercier. 2,388,924; Nov. 13.
Mask, Respiratory. B. F. Williams. 2,389,102; Nov. 13.
Mask structure. J. E. Duggan. 2,388,835; Nov. 13.
Mat, Link. D. W. Moore, Jr. 2,388,927; Nov. 13.
Material digging and handling apparatus. S. Grubich. 2,389,044; Nov. 13.
Measuring and controlling apparatus. W. L. Shaffer. 2,388,769; Nov. 13.
Measuring and marking cord lengths. C. W. Skinner. 2,388,875; Nov. 13.
Measuring device, Flow. N. Brewer. 2,388,672; Nov. 13.
Metal body and making same, Powdered. J. Kuzmick. 2,389,061; Nov. 13.
Metal, Casting. R. K. Hopkins. 2,388,974; Nov. 13.
Micro wave control apparatus. J. H. Cotton. 2,388,830; Nov. 13.
Milling machine. H. M. Scarff. 2,388,872; Nov. 13.
Mixing device. A. Hirschl. 2,388,972; Nov. 13.
Mixture control apparatus. D. J. Deschamps. 2,388,681; Nov. 13.
Molds, Making. E. H. Wallace. 2,388,776; Nov. 13.
Motor: *See*—
Two-speed motor.
Motor protector. G. C. Pearce. 2,388,800; Nov. 13.
Mounting: *See*—
Corset stay mounting. Grinding wheel mounting.
Electrical instrument mounting.
Multifocal ophthalmic lens blanks, Making. J. H. Hammon. 2,388,687; Nov. 13.
Multiple opposed piston engine. W. G. Meyers. 2,388,756; Nov. 13.
N-sec-butyl-p-nitroaniline. H. Von Bramer and L. G. Davy. 2,388,886; Nov. 13.
Neckwear, Man's. H. Pfau. 2,388,993; Nov. 13.
Needle grinder. Hypodermic. E. G. Mascarenhas. 2,389,069; Nov. 13.
Negative resistance apparatus, Keyed multifrequency. A. C. Schroeder. 2,389,004; Nov. 13.
Net, Hair. L. D. Després. 2,388,957; Nov. 13.
Nipple, Nursing. H. Heilborn. 2,388,915; Nov. 13.
Nonscalloping bimetallic sheet metal, Making substantially. W. L. Keene and W. A. Carlson. 2,388,694; Nov. 13.
Nozzle, Spray. H. H. Hobbs and W. A. Zaloudek. 2,389,053; Nov. 13.
Oil and producing same, Soluble. C. A. Cohen. 2,388,677; Nov. 13.
Oil substitute and making the same, Drying. C. H. Bibb and R. C. Palmer. 2,388,947; Nov. 13.
Olefinic hydrocarbons, Preparation of. H. O. Mottern. 2,388,929; Nov. 13.
Opener, Letter. A. A. Krlewaldt. 2,388,695; Nov. 13.
Optical objective. C. G. Wynne. 2,389,016; Nov. 13.
Optical system, Dual power. L. H. Brown. 2,388,673; Nov. 13.
Ores containing sodium chloride, Flotation process for. P. A. Ray. 2,389,080; Nov. 13.
Overload protection for refrigeration systems. A. B. Newton. 2,389,073; Nov. 13.
Perforator, Multiple. E. Kern. 2,389,105; Nov. 13.
Photographic developer. F. R. Bean. 2,388,816; Nov. 13.
Photographic duplicating and projection machine. L. M. Severeid. 2,388,768; Nov. 13.
Photographic emulsions, Developing. E. C. Yackel, J. A. Leermakers, and C. J. Staud. 2,388,894; Nov. 13.
Photographic objective. M. Reiss. 2,388,869; Nov. 13.
Picture, Animated wall. F. C. Sagendorf. 2,389,085;
Pin: *See*—
Lap pin.
Pin setter for bowling alleys. R. E. Rundell. 2,388,709; Nov. 13.
Pin setting mechanism for bowling alleys. L. W. Bates. 2,388,708; Nov. 13.
Piston, Multiface. E. R. Dailey. 2,388,781; Nov. 13.
Piston ring clamping device. H. M. Scarff. 2,388,871; Nov. 13.
Pitting machine. G. W. Asjlock, Jr. 2,388,814; Nov. 13.
Plastic tubing, Bending. M. German. 2,389,038; Nov. 13.
Plate burner. F. T. Powers. 2,388,762; Nov. 13.
Platform for lift trucks, Portable. C. D. Fallert. 2,388,730; Nov. 13.
Plow, Adjustable two-way hand snow. J. S. Martin. 2,388,985; Nov. 13.
Plug, Valve. S. C. Carter. 2,388,827; Nov. 13.
Plural feed back system for light sources. W. R. Le Page. 2,388,854; Nov. 13.
Pneumatic clutch control. L. B. Lindsley. 2,388,857; Nov. 13.
Polishing device, Diamond. B. Levy. 2,388,751; Nov. 13.
Polyamides, Synthetic linear. D. D. Coffman and H. B. Stevenson. 2,388,676; Nov. 13.
Polyisobutylene-wax compositions. G. P. Mack. 2,388,984; Nov. 13.
Portable truck grain elevator. R. L. Kooiker. 2,388,921; Nov. 13.
Print making machine. G. M. Dye. 2,388,837; Nov. 13.
Printing plate manufacture. A. J. Spelker. 2,388,878; Nov. 13.
Processing bacon. M. Britt. 2,388,823; Nov. 13.
Projector, Motion picture. R. J. Miller. 2,388,794; Nov. 13.
Proportioning system, Fluid. T. A. Baker. 2,388,669; Nov. 13.
Prosthesis, Denture. E. G. Lang. 2,389,063; Nov. 13.
Protector: *See*—
Motor protector.
Protective system. H. E. Strang and J. W. Butler. 2,389,007; Nov. 13.





Pump: *See*—
Thermal pump.
Pump for fuel system. A. J. Stepanoff. 2,388,939; Nov. 13.
Pyridine derivatives and the manufacture of same. M. Hoffer. 2,389,054; Nov. 13.
Rack: *See*—
Dispensing rack.
Radio control, Remote. K. A. Kopetzky. 2,388,748; Nov. 13.
Range finder for cameras. H. Schwartz and W. Castedello. 2,388,714; Nov. 13.
Razor. H. H. Clein. 2,388,722; Nov. 13.
Recorder, Phonograph. L. B. Glaser and R. G. Franey. 2,388,964; Nov. 13.
Recording apparatus. A. Blain. 2,389,021; Nov. 13.
Reed for musical instruments. A. Brilhart. 2,388,822; Nov. 13.
Reel: *See*—
Fishing reel.
Refining means, Oil. A. M. Braun. 2,388,821; Nov. 13.
Refractory body of high electronic emission. J. Kurtz. 2,389,060; Nov. 13.
Refrigerator door fastener. J. V. Jamison, Jr. 2,389,056; Nov. 13.
Regulator: *See*—
Voltage regulator.
Reinforced concrete tank. C. Kandall. 2,389,057; Nov. 13.
Relief valve for power transmission. G. C. Bonnell. 2,388,820; Nov. 13.
Resin, Polyvintal ketal acetal. J. D. Ryan and F. B. Shaw, Jr. 2,388,802; Nov. 13.
Resolution of enantiomorphs. H. B. Hass. 2,388,688; Nov. 13.
Rethreading tool. A. Macklet. 2,388,790; Nov. 13.
Retractable vehicle support. P. Masters. 2,388,923; Nov. 13.
Rivet set. H. W. Young. 2,388,895; Nov. 13.
Riveter, Squeeze. E. H. Souter. 2,388,877; Nov. 13.
Roll changing apparatus for electrolytic coating lines. C. J. Klein. 2,388,980; Nov. 13.
Roller, Ammunition. C. A. Hathaway. 2,388,967; Nov. 13.
Rubber, Amelioration of. P. H. M. Compagnon and J. N. L. Le Bras. 2,388,905; Nov. 13.
Sampling device. E. T. Roetman. 2,388,801; Nov. 13.
Scale. R. C. Haferl and A. F. Hohne. 2,388,912; Nov. 13.
Scale, M. Thorsson. 2,389,108; Nov. 13.
Scale mechanism. H. G. Reichel. 2,389,113; Nov. 13.
Screen: *See*—
Automobile window screen.
Sealing device. W. Messinger. 2,388,925; Nov. 13.
Sealing method. E. L. Stein. 2,388,770; Nov. 13.
Seat: *See*—
Infant's toilet seat.
Sewage disposal. J. A. Montgomery and L. E. Livingston. 2,388,795; Nov. 13.
Sewer sludge, screenings, and garbage combustion apparatus. A. C. Peterson and C. R. Raiter. 2,389,077; Nov. 13.
Sewing and binding machine. O. R. Haas. 2,388,739; Nov. 13.
Sewing machine. L. R. Newton, H. E. Haase, and C. T. Walter. 2,389,112; Nov. 13.
Shield, Corn protector. F. P. Donnelly. 2,389,032; Nov. 13.
Shock absorber, Oleo-pneumatic. C. J. Underwood. 2,388,885; Nov. 13.
Shoe construction. W. Hoy. 2,388,744; Nov. 13.
Signal: *See*—
Code calling signal.
Ski, Water. C. L. Schatz. 2,389,001; Nov. 13.
Slicing machine. H. J. Criner. 2,388,725; Nov. 13.
Slow feed indicator. F. B. Harvuot. 2,388,843; Nov. 13.
Snap-acting device. G. W. Bower. 2,388,951; Nov. 13.
Snap action constant level device. L. V. McCarty. 2,388,793; Nov. 13.
Soap composition. L. Safrin. 2,388,767; Nov. 13.
Sodium chromate, Recovering. M. J. Udy. 2,388,775; Nov. 13.
Solar heater. R. H. Taylor. 2,388,940; Nov. 13.
Solidified unstable compounds. S. B. Wicxer. 2,388,719; Nov. 13.
Soluble material which becomes insoluble upon separation from solvent. W. O. Kenyon and W. F. Fowler, Jr. 2,388,851; Nov. 13.
Spacing device for typewriters, Line. G. Prezioso. 2,388,936; Nov. 13.
Spark, supercharger, and throttle control. C. F. Schorn. 2,389,003; Nov. 13.
Spring assembly. G. E. Taylor. 2,388,882; Nov. 13.
Spring bending machine. F. J. Horton. 2,389,055; Nov. 13.
Stabilizer. E. Bagnall. 2,389,017; Nov. 13.
Starch-gluten separation. R. W. Callaghan and G. W. Elverum. 2,388,902; Nov. 13.
Steel in elevated temperature service under stress. M. A. Grossmann and R. F. Miller. 2,389,043; Nov. 13.
Stereo trainer. S. M. MacNeille and G. J. Koch. 2,388,858; Nov. 13.
Stoker, Fuel. D. R. Stahl. 2,388,805; Nov. 13.
Sucker rod hanger. J. L. Haddock and S. Dixon. 2,389,045; Nov. 13.
Suction cleaner. L. A. Griffith. 2,389,042; Nov. 13.
Suit, Diving. J. W. Browne. 2,388,674; Nov. 13.
Sulphur dioxide, Production of. H. F. Merriam. 2,389,071; Nov. 13.
Sulphuric acid, Manufacture of. H. F. Merriam and A. M. Harkness. 2,389,070; Nov. 13.
Support: *See*—
Retractable vehicle support.
Support for concrete forms. F. D. Parmenter. 2,388,865; Nov. 13.
Switch: *See*—
Flow responsive switch. Handle-bar switch.
Switch. J. S. Nunes. 2,389,075; Nov. 13.
Switch assemblage. W. C. Furnas, E. B. Schumacher, and R. S. Kercher. 2,388,784; Nov. 13.
Switch assemblage. W. C. Furnas and D. G. Spotts. 2,388,783; Nov. 13.
Switch operating apparatus, Railway. H. L. Bone. 2,388,819; Nov. 13.
Switching and control mechanism, Impulse. P. E. Fischler and J. Nathansohn. 2,388,733; Nov. 13.
Synchronizer for oscillators. R. L. Campbell. 2,389,025; Nov. 13.
System for the transmission of angular notions. F. V. Johnson. 2,388,977; Nov. 13.
Table. W. F. Breen and M. B. Good. 2,389,022; Nov. 13.
Tamper for cigarette machine feeders. R. Thompson. 2,388,772; Nov. 13.
Tank: *See*—
Reinforced concrete tank.
Tank construction, Armored. W. A. Cost. 2,389,028; Nov. 13.
Tapping. E. M. Boehmler. 2,388,779; Nov. 13.
Telegraph transmitter. M. T. Goetz. 2,388,965; Nov. 13.
Television apparatus. G. Patterson, Jr. 2,388,761; Nov. 13.
Television system, Color. A. N. Goldsmith. 2,389,039; Nov. 13.
Temperature regulating device. V. Weber. 2,389,014; Nov. 13.
Tension regulating mechanism. W. B. Heinz. 2,389,047; Nov. 13.
Tensioning device. G. L. Leithiser. 2,388,982; Nov. 13.
Terminal fastening for electrical capacitors. K. H. Ballard. 2,389,018; Nov. 13.
Terpene ethers. A. L. Rummelsburg. 2,388,765; Nov. 13.
Tester, Pole soundness. H. J. Dana. 2,389,030; Nov. 13.
Testing arrangement for trunks to community dial offices. A. T. Perry. 2,389,076; Nov. 13.
Textile mill spindle. H. H. Brooksieker and P. I. Thyreen. 2,388,900; Nov. 13.
Textile yarns and like materials, Shrinking of. F. B. Hill and W. H. Kimpton. 2,388,742; Nov. 13.
Thermal pump. E. M. Lieberman. 2,389,067; Nov. 13.
Thermal switch and relay. J. Schmidinger. 2,388,712; Nov. 13.
Tile, Manufacturing surface ornamented acoustical. R. H. Stitt. 2,388,880; Nov. 13.
Titanium dioxide, Preparing. W. J. Cauwenberg and C. A. Tanner, Jr. 2,389,026; Nov. 13.
Tool: *See*—
Rethreading tool.
Vertical turret machine tool.
Tool for inserting insulating strips, Hand. F. S. Kundtz. 2,388,853; Nov. 13.
Trailer, Boat. H. S. Sackett. 2,388,870; Nov. 13.
Transition control system. R. M. Dilworth and T. O. Lillquist. 2,388,782; Nov. 13.
Transmission. J. Jandasek. 2,388,849; Nov. 13.
Transmission control mechanism. G. T. Randol. 2,388,763; Nov. 13.
Transmission, Variable speed power. K. W. Couse. 2,388,955; Nov. 13.
Trolley wire hanger. S. S. Matthes. 2,388,860; Nov. 13.
Truck, Lifting. W. C. House. 2,388,692; Nov. 13.
Truss. C. G. Hildreth. 2,388,847; Nov. 13.
Tubes in tube seats, Expanding. P. J. Welch. 2,389,098; Nov. 13.
Turbine apparatus. J. S. Newton. 2,389,074; Nov. 13.
Turbine arrangement, Aircraft gas. E. S. Clark. 2,388,952; Nov. 13.
Turbine, Multistage high pressure elastic fluid. J. F. Jefferson. 2,388,975; Nov. 13.
Turning device, Wood. G. Burgeson. 2,388,825; Nov. 13.
Twine and producing the same, Paper. M. Katz. 2,388,745; Nov. 13.
Two-speed motor. E. O. Thompson. 2,388,884; Nov. 13.
Typographical compositing machine, Photo-mechanical. R. C. Elliott, M. R. Dewhurst, and J. B. S. Booth. 2,388,961; Nov. 13.
Utensils, Making enameled cooking. R. S. Cobb and W. B. Moore. 2,388,723; Nov. 13.

**Valve:** *See*—
Automatic valve. Diaphragm valve. Electrically separated flush valve. Fluid control valve. Four-way valve. Plug valve.

Valve. H. W. Sanford. 2,388,710; Nov. 13.
Valve construction. A. Roberts. 2,389,000; Nov. 13.
Valve device, Control. C. S. Kelley. 2,389,058; Nov. 13.
Valve mechanism. E. J. Svenson. 2,388,716; Nov. 13.
Valves, Sealing rotary plug type. W. A. Fennell. 2,389,036; Nov. 13.
Vaporizing burner. R. W. De Lancey. 2,388,907–8; Nov. 13.
**Vehicle:** *See*—
Combat vehicle.
Velocity of movement of the breech block in automatic guns, varying the. J. Vesely. 2,389,095; Nov. 13.
Ventilating system, Closet. R. H. Bloxham. 2,388,949; Nov. 13.
Ventilator, Ridge roll. W. A. Moore. 2,388,759; Nov. 13.
Ventilator, Window. D. S. Funk. 2,388,734; Nov. 13.
Vertical turret machine tool. R. L. Bazley and W. E. De Voe. 2,389,019; Nov. 13.
Visor, Automobile window. G. W. Schatzman and A. P. Fergueson. 2,389,002; Nov. 13.
Voltage regulator. R. H. Preston. 2,388,996; Nov. 13.
Welding machine. C. Elsler, Jr. 2,389,034; Nov. 13.
Winding machine, Spring. A. A. Weisberger and E. G. Glick. 2,389,109; Nov. 13.
Windrower, Small grain. W. C. McCann. 2,388,861; Nov. 13.
Wire connector. E. Cornella. 2,388,724; Nov. 13.
Wool manufacture, Mineral. E. R. Powell. 2,388,935; Nov. 13.
Yarn conditioning process. J. R. Caldwell. 2,388,826; Nov. 13.
Yarn treating process and resulting product. J. B. Dickey and J. G. McNally. 2,388,833; Nov. 13.


# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 13, 1945

**In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.**

NOTE.—First number—class, second number—subclass, third number—patent number

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2— | 9: 2,388,712 | 49— | 45: 2,388,809 | 97— | 179: 2,388,689 | 161— | 1: 2,388,686 | 212— | 134: 2,388,990 | 260— | 78: 2,388,851 |
| | 26: 2,389,037 | | 89: 2,388,808 | 98— | 42: 2,388,759 | 164— | 0.5: 2,388,938 | 214— | 1.1: 2,388,987 | | 84.5: 2,388,685 |
| | 42: 2,388,757 | 51— | 8: 2,388,818 | | 94: 2,388,734 | | 29: 2,388,838 | | 65: 2,388,870 | | 232: 2,388,764 |
| | 105: 2,388,926 | | 131: 2,388,735 | 99— | 82: 2,388,904 | | 91: 2,389,105 | | 103: 2,389,044 | | 240: 2,388,903 |
| | 150: 2,388,903 | | 168: 2,388,697 | | 107: 2,388,823 | 167— | 30: 2,388,684 | | 140: 2,389,029 | | 2,388,963 |
| | 270: 2,388,717 | | 221: 2,389,089 | | 2,388,891 | 170—135.6: | 2,388,718 | 215— | 31: 2,389,072 | 295.5: | 2,389,054 |
| 4— | 239: 2,388,856 | | 229: 2,388,751 | | 199: 2,388,917 | | 2,389,003 | | 38: 2,388,738 | | 2,389,065 |
| 5— | 275: 2,388,882 | 56— | 135: 2,388,861 | | 421: 2,388,831 | 171— | 95: 2,388,897 | 216— | 62: 2,388,770 | 355: | 2,388,665 |
| 8—115.5: | 2,388,676 | 57— | 88: 2,388,900 | 101— | 103: 2,388,944 | | 2,389,081 | 219— | 4: 2,388,754 | 357: | 2,388,743 |
| | 127.6: 2,389,015 | | 155: 2,388,745 | | 401.3: 2,388,578 | | 97: 2,388,845 | | 2,389,034 | 486: | 2,388,844 |
| | 132: 2,388,742 | 60— | 20: 2,388,924 | 102— | 28: 2,389,086 | | 119: 2,388,946 | | 11: 2,388,945 | 504: | 2,388,677 |
| 9— | 21: 2,389,001 | | 41: 2,388,997 | | 78: 2,388,891 | | 228: 2,388,889 | | 20: 2,388,702 | 505: | 2,389,041 |
| 10— | 1: 2,388,779 | | 2,388,998 | 103— | 5: 2,389,067 | 172— | 36: 2,388,955 | | 2,388,839 | 515: | 2,389,088 |
| | 2,388,790 | | 52: 2,388,755 | 106— | 53: 2,388,866 | | 239: 2,388,769 | | 2,389,014 | 534: | 2,389,097 |
| 12— | 51: 2,388,726 | | 54: 2,388,849 | | 123: 2,388,910 | | 278: 2,388,884 | 222— | 318: 2,388,939 | | 2,389,099 |
| 13— | 17: 2,389,033 | | 97: 2,388,716 | | 129: 2,388,881 | 173— | 324: 2,388,724 | 224— | 5: 2,388,811 | 535: | 2,388,688 |
| 15— 3.21: | 2,388,740 | 61— | 70: 2,388,674 | 107— | 1: 2,389,084 | 174— | 18: 2,388,899 | 226— | 127: 2,388,852 | | 2,388,813 |
| | 179: 2,388,867 | 62— | 4: 2,388,800 | | 16: 2,388,815 | | 35: 2,388,848 | 228— | 42: 2,388,678 | 558: | 2,388,663 |
| 16— | 159: 2,389,010 | | 2,389,073 | 110— | 15: 2,389,077 | | 160: 2,388,860 | | 67: 2,388,892 | 577: | 2,388,896 |
| 17— 11.1: | 2,389,006 | | 141: 2,389,105 | | 109: 2,388,805 | 175— | 21: 2,388,664 | 230— | 42: 2,389,042 | 611: | 2,388,765 |
| 18— | 1: 2,388,824 | 64— | 25: 2,388,994 | 112— | 62: 2,388,739 | | 115: 2,388,909 | 234— | 59: 2,389,021 | 666: | 2,388,947 |
| | 41: 2,389,009 | 66— | 131: 2,388,750 | | 197: 2,389,112 | | 182: 2,388,896 | 235— | 130: 2,389,062 | 671: | 2,388,758 |
| | 42: 2,388,996 | 70— | 16: 2,388,766 | 115— | 19: 2,388,711 | | 183: 2,388,663 | 236— | 1: 2,389,111 | 677: | 2,388,971 |
| | 47.5: 2,388,880 | 72— | 13: 2,389,057 | 116— | 119: 2,388,736 | | 294: 2,389,007 | | 16: 2,388,829 | 680: | 2,388,916 |
| | 56: 2,389,038 | 73— | 66: 2,388,705 | 117— | 66: 2,388,723 | | 307: 2,388,675 | 240— | 7.1: 2,388,787 | 681.5: | 2,388,913 |
| | 58: 2,388,776 | | 81: 2,389,030 | | 139.5: 2,388,826 | | 320: 2,388,812 | | 2,388,788 | | 2,388,928 |
| 19— | 130: 2,388,760 | | 209: 2,388,672 | | 2,388,933 | | 341: 2,388,990 | | 54: 2,389,089 | 682: | 2,388,929 |
| | 156: 2,389,024 | 74— | 97: 2,388,951 | 119— | 45: 2,388,998 | | 366: 2,389,008 | 241— | 92: 2,388,799 | 683.4: | 2,388,918 |
| | 162: 2,388,774 | | 142: 2,388,780 | 121— | 38: 2,388,662 | 177— | 7: 2,389,082 | 242— | 55.5: 2,389,092 | | 2,388,919 |
| 20— 1.11: | 2,388,949 | | 291: 2,388,699 | 122— | 189: 2,388,976 | | 311: 2,389,103 | | 75: 2,389,047 | 683.5: | 2,388,932 |
| | 78.3: 2,388,927 | | 2,388,700 | 123— | 51: 2,388,756 | | 337: 2,388,977 | | 84.5: 2,388,979 | 683.6: | 2,388,942 |
| | 92: 2,388,954 | | 388: 2,388,690 | | 119: 2,388,681 | | 353: 2,388,733 | | 132: 2,388,749 | 768: | 2,388,905 |
| 21— | 58: 2,388,753 | | 425: 2,388,963 | | 139: 2,388,669 | | 380: 2,388,810 | | 156: 2,388,982 | 261— | 36: 2,388,850 |
| 22— | 200: 2,388,974 | | 441: 2,389,035 | 126— | 110: 2,388,970 | 178— | 5.4: 2,389,039 | | 15: 2,388,973 | | 107: 2,388,933 |
| 23— | 56: 2,388,775 | | 531: 2,389,031 | | 271: 2,388,940 | | 5.8: 2,388,761 | 244— | 18: 2,388,879 | | 115: 2,389,005 |
| | 119: 2,388,983 | 78— | 41: 2,388,877 | 127— | 67: 2,388,902 | | 17: 2,388,965 | | 40: 2,388,806 | 262— | 13: 2,389,008 |
| | 172: 2,389,070 | | 46: 2,388,895 | 128— | 100: 2,388,847 | 179—175.2: | 2,389,076 | 246— | 33: 2,388,956 | 263— | 8: 2,388,762 |
| | 177: 2,389,071 | 84— | 393: 2,388,822 | | 146: 2,389,102 | 181— 0.5: | 2,388,703 | | 242: 2,388,819 | | 43: 2,388,888 |
| | 202: 2,389,026 | 87— | 9: 2,388,693 | | 252: 2,388,915 | | 43: 2,389,059 | 248— | 120: 2,388,730 | | 2,389,027 |
| | 232: 2,389,046 | 89— | 14: 2,388,727 | 129— | 1: 2,388,960 | 188— | 78: 2,389,096 | 249— | 2: 2,389,113 | 265— | 68: 2,389,108 |
| 24— | 163: 2,388,752 | | 2,388,789 | 131— | 8: 2,389,104 | | 90: 2,388,704 | 250— | 9: 2,388,906 | 266— | 27: 2,388,941 |
| 25— | 131: 2,388,865 | | 18.3: 2,388,794 | | 109: 2,388,772 | | 184: 2,388,946 | | 10: 2,388,748 | 267— | 64: 2,388,885 |
| | 131.5: 2,388,701 | | 20: 2,388,858 | 132— | 41: 2,388,791 | 189— | 34: 2,388,908 | | 11: 2,388,830 | | 67: 2,389,017 |
| | 156: 2,388,679 | | 24: 2,388,708 | | 2,388,792 | | 64: 2,388,786 | | 17: 2,389,004 | 270— | 58: 2,389,066 |
| 29—25.42: | 2,389,018 | | 2,388,837 | | 2,388,797 | 192— | 3.5: 2,388,763 | | 27.5: 2,389,060 | 272— | 73: 2,388,777 |
| | 42: 2,389,019 | | 2,388,842 | | 49: 2,388,957 | | 85: 2,388,857 | | 36: 2,389,025 | 273— | 43: 2,388,707 |
| | 70: 2,388,872 | | 2,388,912 | 134— | 169: 2,388,836 | | 139: 2,388,832 | 251— | 24: 2,388,988 | | 2,388,708 |
| | 80: 2,388,920 | | 2,389,087 | 135— | 49: 2,388,778 | 193— | 37: 2,388,967 | | 2,388,989 | | 2,388,709 |
| | 90: 2,388,948 | | 32: 2,388,673 | 137— | 53: 2,388,820 | 195— | 5: 2,388,991 | | 103: 2,388,827 | 274— | 13: 2,388,964 |
| | 155.5: 2,388,737 | | 53: 2,389,023 | | 68: 2,388,793 | | 38: 2,388,840 | | 107: 2,389,000 | 277— | 27: 2,388,710 |
| | 189: 2,389,061 | | 54: 2,388,687 | | 139: 2,388,696 | 196— | 11: 2,388,732 | | 108: 2,388,800 | 280—33.44: | 2,388,923 |
| | 269: 2,388,871 | | 57: 2,388,860 | | 2,388,808 | | 53: 2,388,937 | 253— | 34: 2,389,110 | | 2,389,094 |
| | 270: 2,388,853 | | 2,388,893 | | 166: 2,388,801 | | 94: 2,388,931 | | 40.7: 2,389,090 | 48: | 2,388,692 |
| 30— | 60: 2,388,722 | | 2,389,016 | 139— | 55: 2,389,091 | 197— | 114: 2,388,936 | | 121: 2,388,767 | 285— | 86: 2,388,992 |
| | 91: 2,388,698 | 90— | 14.1: 2,388,807 | 140— | 105: 2,389,055 | 198— | 22: 2,388,804 | | 161: 2,388,962 | 97.3: | 2,388,841 |
| | 269: 2,388,695 | | 83: 2,388,670 | | 121: 2,388,862 | | 115: 2,388,921 | | 237: 2,388,959 | 286— | 8: 2,388,925 |
| 32— | 19: 2,389,063 | | 2,388,958 | 142— | 38: 2,388,825 | 200— | 3: 2,388,783 | | 316: 2,388,887 | | 9: 2,389,036 |
| | 32: 2,389,101 | | 35: 2,388,690 | 144— | 2: Re. 22,601 | | 64: 2,389,075 | | 359: 2,389,012 | 287— | 90: 2,388,950 |
| 33— | 125: 2,388,875 | | 2,388,943 | 146— | 27: 2,388,814 | | 81: 2,388,843 | | 362: 2,388,796 | 290— | 3: 2,388,782 |
| 34— | 25: 2,388,735 | | 36: 2,388,873 | | 28: 2,388,682 | | 81.9: 2,388,671 | 253— | 39: 2,388,952 | 292— | 79: 2,389,056 |
| | 90: 2,388,746 | 90— | 1: 2,389,063 | | 78: 2,388,725 | | 124: 2,388,784 | | 59: 2,389,074 | 296— | 95: 2,389,002 |
| 35— | 3: 2,389,003 | 91— | 8: 2,388,999 | 148— | 12: 2,388,694 | | 134: 2,388,883 | | 76: 2,388,975 | 299— | 114: 2,389,053 |
| 36— | 8.5: 2,389,032 | | 50: 2,388,911 | | 2,389,043 | | 137: 2,388,712 | | 78: 2,389,040 | 303— | 1: 2,389,048 |
| | 11.5: 2,388,744 | | 54.5: 2,388,729 | 153— | 48: 2,388,953 | | 157: 2,389,013 | 254— | 10: 2,388,864 | | 20: 2,389,052 |
| | 22: 2,389,114 | | 65: 2,388,835 | | 64: 2,389,109 | | 168: 2,388,934 | | 131: 2,388,903 | | 21: 2,389,049 |
| 37— | 53: 2,388,985 | 92— | 56: 2,388,828 | | 82: 2,389,098 | 201— | 63: 2,388,998 | 255— | 4.4: 2,388,741 | | 2,389,050 |
| 40— | 1.5: 2,388,729 | 93— | 93: 2,389,107 | 158— | 27: 2,388,901 | | 67: 2,388,667 | | 47: 2,388,720 | | 2,389,051 |
| | 115: Re. 22,602 | 95— | 2: 2,388,859 | | 28: 2,388,666 | 202— | 46: 2,388,834 | 257— | 236: 2,388,721 | 54: | 2,389,020 |
| 42— | 3: 2,389,095 | | 4.5: 2,388,961 | | 2,388,855 | | 75: 2,389,064 | 259— | 178: 2,388,972 | | 2,389,058 |
| 43— | 148: 2,388,798 | | 9: 2,388,817 | | 2,388,907 | | 174: 2,388,773 | 260— | 4: 2,388,984 | 68: | 2,389,100 |
| 44— | 7: 2,388,719 | | 11: 2,388,995 | | 2,388,908 | 209— | 127: 2,388,731 | | 19: 2,389,078 | 84: | 2,388,706 |
| 45— | 2: 2,388,922 | | 44: 2,388,714 | | 2,388,909 | | 166: 2,389,080 | 305— | 9: 2,389,028 | | |
| | 57: 2,388,771 | | 88: 2,388,816 | | 91: 2,388,914 | 210— | 7: 2,388,795 | 309— | 4: 2,388,781 | | |
| 46— | 36: 2,389,085 | | 2,388,894 | | 120: 2,388,930 | | 122.5: 2,388,821 | | 21: 2,389,079 | | |
| 49— | 1: 2,388,935 | 97— | 48: 2,388,961 | 160— | 184: 2,388,715 | | 134: 2,388,668 | | 22: 2,389,011 | 311— | 84: 2,389,022 |
| | 5: 2,388,876 | | 127: 2,388,874 | | 369: 2,388,747 | 211— | 60: 2,389,045 | | 32: 2,388,846 | 312—140.2: | 2,388,978 |
| | | | | | | | | | 36: 2,388,802 | 315— | 151: 2,388,854 |

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,388,671: | 200—81.9 | 2,388,746: | 34— 90 | 2,388,867: | 15—179 | 2,388,944: | 101—103 | 2,389,027: | 263— 43 | 2,389,071: | 23—177 |
| 2,388,693: | 87— 9 | 2,388,848: | 174— 35 | 2,388,908: | 156— 28 | 2,388,945: | 219— 11 | 2,389,041: | 260—505 | 2,389,077: | 110— 15 |
| 2,388,713: | 3— 9 | 2,388,851: | 260— 78 | 2,388,910: | 106—123 | 2,388,991: | 195— 5 | 2,389,042: | 220— 42 | 2,389,106: | 62—141 |
| 2,388,735: | 34— 25 | 2,388,854: | 315—151 | 2,388,939: | 222—318 | 2,389,011: | 260— 22 | 2,389,043: | 148— 12 | | |

## CLASSIFICATION OF DESIGNS

D 3— 4: Des. 142,856
Des. 142,874
13: Des. 142,839
Des. 142,915
17: Des. 142,838
19: Des. 142,903
26: Des. 142,807
Des. 142,808
Des. 142,830
Des. 142,854
Des. 142,855
Des. 142,856
Des. 142,857
Des. 142,860
Des. 142,926
D 4— 5: Des. 142,909
D 7— 7: Des. 142,836
Des. 142,847
Des. 142,914
D 9— 2: Des. 142,917
D13— 1: Des. 142,828
D14— 6: Des. 142,881
Des. 142,882
Des. 142,883
Des. 142,884
D15— 1: Des. 142,848
D17— 6: Des. 142,813
D22— 3: Des. 142,845
D26—14: Des. 142,843
Des. 142,873
D29—20: Des. 142,885
D33— 3: Des. 142,904
Des. 142,920
7: Des. 142,850
D34— 4: Des. 142,907
5: Des. 142,830
Des. 142,860
15: Des. 142,911
Des. 142,912
Des. 142,913
D36— 2: Des. 142,851
D37— 1: Des. 142,880
D38—10: Des. 142,815
D44—10: Des. 142,821
Des. 142,872
Des. 142,902
21: Des. 142,927
D45— 4: Des. 142,859
Des. 142,879
Des. 142,887
9: Des. 142,890
Des. 142,891
Des. 142,892
10: Des. 142,893
16: Des. 142,908
19: Des. 142,816
Des. 142,817
Des. 142,818
Des. 142,819
Des. 142,820
Des. 142,821
Des. 142,822
Des. 142,823
D45—19: Des. 142,824
Des. 142,825
Des. 142,826
Des. 142,846
Des. 142,893
Des. 142,894
Des. 142,895
Des. 142,896
Des. 142,897
Des. 142,898
Des. 142,899
Des. 142,900
Des. 142,901
Des. 142,905
Des. 142,921
D48—23: Des. 142,871
27: Des. 142,840
28: Des. 142,886
142,906
D49— 1: Des. 142,924
Des. 142,925
D54— 6: Des. 142,812
12: Des. 142,875
Des. 142,876
Des. 142,877
Des. 142,878
Des. 142,918
13: Des. 142,867
Des. 142,868
14: Des. 142,814
D55— 1: Des. 142,811
Des. 142,916
D57— 1: Des. 142,827
D58—25: Des. 142,849
26: Des. 142,844
D59—10: Des. 142,919
D62— 4: Des. 142,835
D70— 2: Des. 142,864
D71— 1: Des. 142,861
Des. 142,862
Des. 142,889
D74— 1: Des. 142,863
D78— 1: Des. 142,928
D80—11: Des. 142,865
Des. 142,910
D81— 4: Des. 142,837
10: Des. 142,866
19: Des. 142,833
D85— 8: Des. 142,842
Des. 142,922
D86—10: Des. 142,870
D87— 3: Des. 142,832
Des. 142,852
Des. 142,923
D91— 1: Des. 142,841
3: Des. 142,834
D92— 1: Des. 142,853
D93— 3: Des. 142,809
Des. 142,810

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

IN RE HERITAGE

*No. 5,918. Decided June 28, 1945*

[150 F.(2d) 554; 66 USPQ 217]

1. PATENTABILITY—PATENTABLE SUBJECT MATTER.

"Owing to the fact that claims 1 and 2 are essentially directed to a purely mental process of making a selection of the amount of coating material to be used in coating a porous fiber board in accordance with a predetermined system they do not define patentable subject matter."

2. WORDS AND PHRASES—"SURFACE-COATED."

"The contention of counsel for appellant that the term 'surface-coated,' as used in claims 15, 19, 20, and 21, definitely excludes an impregnated body is, in our opinion, untenable."

3. PATENTABILITY—FIBER BOARD—"CRITICAL DIFFERENCE."

Product claims 15, 19, 20, and 21, drawn to a "dry surface-coated fiber board" in which each of the surface fibers is completely coated, but the pores between them remain open, *Held* unpatentable over the prior art, where nothing of record established that "there is any critical difference between coating the surface fibers only and coating all the fibers;" citing *Continental Fibre Co.* v. *Formica Insulation Co.*, 287 Fed. 455.

4. SAME—METHOD OF COATING FIBER BOARD—FUNCTIONAL LIMITATION.

In regard to claims 12 and 25, and with particular reference to claim 13, which defines a "method of making a coated porous-surfaced fiber board" and recites that the quantity of coating composition applied is "but slightly in excess of the amount which is just sufficient to coat the fibers completely whereby approximately the porosity of the uncoated board is retained for exhibiting substantially the same sound reduction coefficient as the uncoated board," *Held* that "the limitation as to the amount of coating material in those claims is merely functional and, therefore, cannot be relied upon to lend patentability to the claims;" citing *General Electric Co.* v. *Wabash Appliance Corp. et al.*, 304 U. S. 364, 491 O. G. 463.

5. SAME—SAME.

Claims 4 and 5, directed to a method of coating a porous sound reducing fiber board, *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Mr. W. Bartlett Jones* for Heritage.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 1, 2, 4, 5, 13, 15, 19, 20, 21, and 23) in appellant's application for a patent for an alleged invention relating to a method of producing porous coated fiber boards.

Claims 1, 4, 13, and 15 are illustrative of the appealed claims. They read:

1. The method of producing a porous coated fiber board by coating a porous fiber board having fibers with undesired color qualities with a coating composition capable of producing an opaque coating on the fibers and capable of filling voids between fibers, which comprises coating a series of specimens of the board with the coating agent at known amounts per unit area in a progressive series including at one end of the series incompletely coated fibers and at the other end completely coated fibers and completely filled voids, testing the coated series to find the critical usage between (1) incompletely coated fibers evidenced by appearance of color of the uncoated fiber at the coated surface of the specimens and (2) completely coated fibers evidenced by lack of visible color of the uncoated fibers, determining a noise reduction coefficient effected by the coated specimens of the series whereby it is found that there is a range of usage wherein there is a rapid variation in sound reduction coefficient between two substantially constant and critical values of sound reduction coefficient in the series, one constant value being for specimens with the fibers all coated and the voids filled, and the other constant value being for specimens wherein surface voids are present and the fibers may be uncoated or incompletely coated, or completely coated, selecting those usages which are within said variable range of sound reduction coefficients and above the first mentioned critical usage for color change as usages which may be employed to produce a coated board having surface voids for sound reduction and a color free from effect by appearance of exposed fiber, and applying the coating composition to said board at a usage within the range selected.

4. The method of coating a porous sound reducing fiber board having a surface with pores which comprises applying an aqueous coating composition to the board, while wet with water which composition is capable upon drying of coating the fibers and also capable of sealing the pores of the surface in a relatively high usage and of leaving unsealed pores in a relatively low usage, the quantity of composition applied being at least sufficient completely to coat the dry fibers while leaving the pores of the dry board substantially unsealed, and drying the wet board and the coating.

13. The method of making a coated porous-surfaced fiber board which comprises applying a coating composition to a fiber mat, which composition is capable of forming an adherent solid coat upon the fibers and also capable of sealing the pores of the surface in a relatively high usage and of leaving unsealed pores in a relatively low usage, the quantity of composition applied being but slightly in excess of the amount which is just sufficient to coat the fibers completely whereby approximately the porosity of the uncoated board is retained for exhibiting substantially the same sound reduction coefficient as the uncoated board.

15. A dry surface-coated fiber board having interfelted fibers and inter-fiber voids characterized by the appearance of pores at the surface, each of the fibers of which the forms are visible at the surface having a continuous coat thereon, which coat is integral with like coats on other fibers at fiber-contacts and fiber crossings, the usage of coating material being at least not below the amount which is critical between an amount which incompletely coats the said fibers and an amount which completely coats the said fibers, the critical point being where the porosity begins to decrease while the said fibers are completely coated.

The references are: Carmichael, 395,951, January 8, 1889; Cutler et al., 1,779,532, October 28, 1930; Ulrich, 1,818,874, August 11, 1931; Novak, 2,104,052, January 4, 1938.

Appellant's alleged invention relates to the manufacture of coated porous-surfaced fiber boards for decorative and industrial uses, and has for its principal object the application of a coloring or protective coating on such boards, without materially impairing their porosity or acoustic properties. The desired result is obtained by coating only the outer fibers and leaving the pores between the fibers open throughout the board. In applying the coating, the board is first wetted, so that its pores are substantially filled with water, and the coating material is then applied in the form of an aqueous composition which lies on the surface of the board. The board is then dried, removing both the water used in the original wetting and the water in the coating composition, with the result that only the surface fibers are coated. The coating material is used in such quantity that it covers the surface fibers of the board, but does not fill the pores.

It is stated in appellant's application that the noise reduction coefficient of porous board is not affected by the application of coating material to the surface fibers unless the coating material is applied in such an amount that it fills or partially fills the pores; that the noise reducing coefficient becomes progressively lower, as more material is added, until the pores are entirely filled, after which the coefficient remains substantially constant, regardless of the amount of coating material applied; that the amount of coating material considered most desirable is that which produces the most complete surface coating without closing or partially closing the pores; and that a lesser amount will not prevent a change in color of the coated surface on exposure to light and air, but a greater amount will close or partially close the pores, resulting in a decreased noise reduction coefficient.

In order to determine the proper amount of any particular material to be used in coating a particular board, samples of the board are coated with progressively increasing amounts of material, beginning with zero and ending with a complete covering of the surface. The samples are then tested for "noise reduction coefficient," that is, the percentages of sound absorbed. The group at the lower end of the coating range has substantially a constant high coefficient; whereas, the intermediate group varies from a high to a low coefficient, and the group at the upper end of the coating range has substantially a low coefficient. The intermediate group, therefore, represents the range from the point at which the coating begins to fill the pores to the point at which it completely fills them. Accordingly, for a complete coating with maximum sound absorption, the sample having the least amount of coating of those in the intermediate range should be selected.

The patents to Carmichael, Cutler et al., and Ulrich are generally similar and disclose the treatment of fiber board by the application of a material which is dissolved in an organic solvent and which impregnates the individual fibers throughout the board, but does not fill the pores, whereas in appellant's process, as disclosed in his application, the coating material does not penetrate to the inner fibers.

The patent to Novak relates to the treatment of "paper, fiber board or the like." In this patent, a web of the material to be treated is wetted and passed through a bath of an aqueous solution of a permeating material.

Claims 1 and 2 are drawn to an alleged method which comprises coating samples with varying amounts of material, testing them for sound reduction coefficient, selecting a specimen within the range of varying coefficients, which range lies between the two ranges of substantially constant coefficients, and using the amount of material applied to the selected specimen as the criterion in future coating. Those claims have been rejected by the tribunals of the Patent Office as not defining any art within the scope of the protection provided by the patent statutes, and, therefore, not defining patentable subject matter.

It is, of course, common knowledge, as indicated in the decision of the Board of Appeals, that a porous board has better sound absorbing properties than a non-porous board. Accordingly, in coating a board which is to be used for absorbing sound it would be understood that the board should remain as porous as possible, and that the coating material should not be applied in such quantities as to destroy or materially lessen the capacity of the board for absorbing sound. Obviously, therefore, the amount of coating material to be used would be determined by applying varying amounts to specimens and testing such specimens for their noise reduction coefficients. The specimen selected, after such testing, should be the one which had the greatest amount of coating and which substantially retained its original coefficient. In making such tests it would, of course, be found that the lightly coated samples had a substantially constant coefficient and that, as the amount of coating material was increased, a point would be reached at which the coefficient became less. This would naturally be the point selected, if it were desired to give as much protection to the board as possible without lowering its acoustic value.

The feature of appealed claims 1 and 2 which is relied on for patentable novelty is the mental process of making a selection of the amount of coating material to be used in accordance with a predetermined system. Such purely mental acts are not proper subject matter for protection under the patent statutes, as held by the tribunals of the Patent Office. See *In re Cooper et al.*, 30 C. C. P. A. (Patents) 946, 134 F.(2d) 630, 57 USPQ 117, 553 O. G. 177; *Don Lee, Inc.* v. *Walker*, 61 F.(2d) 58, 14 USPQ 272; *In re Bolongaro*, 20 C. C. P. A. (Patents) 845, 62 F.(2d) 1059, 16 USPQ 295, 431 O. G. 3.

In the case of *In re Cooper et al.*, supra, this court, in holding that the determination of the proportions of elements to be used in an alloy in accordance with a specified formula did not involve patentable subject matter, said:

> The appellants have set out a formula for determination of the carbon content of steel corresponding to given quantities of the alloying elements. This, however, is not patentable per se as it does not fall within any of the statutory classes of invention as set out in section 4886 R. S. Patentability of the claims may not rest solely on the fact that the carbon contents specified therein are calculated from the formula.

[1] Owing to the fact that claims 1 and 2 are essentially directed to a purely mental process of making a selection of the amount of coating material to be used in coating a porous fiber board in accordance with a predetermined system they do not define patentable subject matter.

Claims 4, 5, 13, 15, 19, 20, 21, and 25 were rejected by the Primary Examiner on the patents to Carmichael, Cutler et al., Ulrich, or Novak, and claims 4, 5, 13, and 25 were also rejected by him as being functional, "since," he stated, "they do not set forth the amount of composition used but state that sufficient is employed to obtain the desired result of covering the fibers but leaving the pores open."



The Board of Appeals concurred in the Examiner's rejection of claims 4, 5, 13, and 25 as being functional, and called attention to the fact that the Examiner had rejected all of the claims, except those numbered 1 and 2, as being unpatentable over the references of record. With reference to the Novak patent, the Board stated that "The degree to which" the apparatus disclosed by the patentee "coats or approaches saturation is not patentable." The Board further stated that the amount of coating called for by claims 4, 5, 13, 15, 19, 20 and 21 was merely a matter of degree and did not involve invention.

In a decision in response to a request by counsel for appellant for reconsideration of its original decision, the Board stated that "the process claims are in effect for a testing scheme to arrive at the proper concentration of coating by variably coating several samples and testing the same. The making of samples and testing the same is conventional practice."

Claims 15, 19, 20, and 21 are product claims drawn to a "dry surface-coated fiber board" in which each of the surface fibers is completely coated, but the pores between them remain open.

In the Ulrich patent it is stated that the asphalt or like material which is applied to the porous board will "encase and impregnate the individual fibers of the mass" but will not "fill the interstices or air pockets," and that the process of the patent "leaves the interstices or air voids in the boards substantially unimpaired."

[2] The contention of counsel for appellant that the term "surface-coated," as used in claims 15, 19, 20, and 21, definitely excludes an impregnated body is, in our opinion, untenable.

[3] Those claims describe the surface of the board only, and are silent as to what is below the surface. It is immaterial, therefore, so far as they are concerned, whether or not the fibers below the surface are impregnated. The exact degree of penetration of the board by the liquid is, as held by the Board of Appeals, a matter of degree only.

In the case of *Continental Fibre Co.* v. *Formica Insulation Co.*, 287 Fed. 455, the Circuit Court of Appeals (Sixth Circuit) made the following observation which we think is applicable here:

> • • • We are not able to think that the difference between a surface permeation and saturation and a saturation which goes to the center of the sheet is in itself anything more than a difference in degree • • •.

There is nothing of record in the instant case which would support a holding that there is any critical difference between coating the surface fibers only and coating all the fibers.

We are of opinion that claims 15, 19, 20, and 21 are unpatentable in view of the disclosure in the Ulrich patent.

[4] Claims 13 and 25, which are directed to a process, are not limited to the application of a coating material to the surface only.

As hereinbefore noted, in the Ulrich process all the surface fibers are completely coated, but, as stated by the patentee, the porosity of the board is not materially impaired.

We are of opinion that the rather indefinite requirements of claims 13 and 25 as to the amount of coating material are insufficient to define patentable subject matter in view of the process disclosed in the Ulrich patent. As pointed out by the Patent Office tribunals, the limitation as to the amount of coating material in those claims is merely functional and, therefore, cannot be relied upon to lend patentability to the claims. *General Electric Co.* v. *Wabash Appliance Corp. et al.*, 304 U. S. 364, 491 O. G. 463.

Claim 25 includes the steps of determining the minimum usages of coating material necessary to produce certain results.

As hereinbefore stated, patentability cannot be predicated on mental processes as steps in a method claim.

[5] Method claims 4 and 5, together with claims 13, 15, 19, 20, 21, and 25, were rejected by the Examiner "as being unpatentable over Carmichael, Cutler, Ulrich or Novak," the Examiner stating that, although the first three patents "fail to disclose that the board being treated is wet with water," Novak "shows that it is desirable to maintain a web in wet condition if it is to receive an aqueous bath."

It is evident, we think, from the quoted excerpt from the Examiner's decision that it was the intention of the Examiner to reject claims 4 and 5 on the patents to Carmichael, Cutler et al., or Ulrich in view of the disclosure in the patent to Novak. The Board of Appeals did not reverse that ground of rejection, but entered a general affirmance of the Examiner's decision.

An affirmance by the Board has the legal effect of affirming all grounds of rejection applied by the Examiner, "and not expressly reversed by the Board." *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780, 17 USPQ 330, 433 O. G. 223; *In re Wahl*, 30 C. C. P. A. (Patents) 719, 132 F.(2d) 323, 50 USPQ 158, 549 O. G. 3.

The Examiner also stated that, although Carmichael, Cutler et al., and Ulrich used organic solvents in order to apply the coating material, rather than an aqueous dispersion as called for by claims 4 and 5, that difference was not a patentable one as the liquid, whether water or an organic material, is removed by the final step of drying the board.

We are in accord with that holding, as it is obvious that the specific solvent used is merely a matter of choice. Furthermore, claims 4 and 5 distinguish over Carmichael, Cutler et al., and Ulrich only by stating that the board is wet when the coating material is applied. That feature is clearly disclosed in the patent to Novak, and we are of opinion that if it were desired to employ an aqueous dispersion instead of an organic solvent, it would be obvious to wet the board prior to the application of the coating material, as taught by Novak. Claims 4 and 5 do not state that the coating material is

confined to the surface of the board. Moreover, as hereinbefore stated, the specific depth of penetration of a coating material is merely a matter of degree. We hold, therefore, that the rejection of claims 4 and 5 on the patents to Carmichael, Cutler et al., or Ulrich in view of the patent to Novak was proper.

It may be, as contended by counsel for appellant, that the wetting of the board in the Novak process does not completely prevent the coating material from penetrating the pores of the board. However, claims 4 and 5 do not state that the board is wetted to such an extent that all its pores are filled with water, or that the coating material is applied in such a manner that it will be excluded from the pores by the water. Accordingly, the wetting broadly defined in those claims presents no distinction over the wetting disclosed in the Novak patent.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

### IN RE ROCKWELL

*No. 5,014. Decided June 22, 1945*

[150 F.(2d) 560; 66 USPQ 215]

1. PATENTABILITY—INVENTION.

"In describing his drawing, the patentee Sciaky states that the showing is diagrammatic. Clearly his device is not shown as a unit, as is the device of appellant. The Examiner held, however, that it would not require invention to assemble the elements of the Sciaky patent into a unit, as, for instance, mounting them on a common base or placing them in a housing. It seems to us that such an expedient would be obvious to one skilled in the art, for the reason that diagrammatic drawings are commonly used by draftsmen in similar situations."

CLAIMS—INTRODUCTORY CLAUSE.

"The general rule is that the introductory clause of a claim which states only the environment, intended use or purpose of the structure later recited in the claim is not a limitation on the subject matter This, like most rules, is subject to exception. An examination of the authorities discloses that the exception governs when the introductory clause is that portion of the claim which gives meaning and vitality to it."

3. SAME—SAME.

The introductory clause reading, "A power unit for intensifying and modulating hydraulic pressure, to be interposed as a unit in the hydraulic line between a master cylinder and an hydraulic motive means in a system of the character indicated," *Held* not to "serve as a limitation on the elements of the claims which follow it," but to be "merely a statement of the intended use of the power unit and a positioning thereof."

4. PATENTABILITY—POWER UNIT.

Certain claims to a power unit *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Messrs. Mitchell & Beckert* (*Mr. Martin T. Fisher* and *Mr. Fred J. Beckert* of counsel) for Rockwell.

*Mr. W. W. Cochran* for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting on prior art claims 56, 58 and 61 of patent application No. 307,116, relating to a Power Unit.

Claims 36, 38, 39 and 40 were allowed by the Examiner and claims 57, 59 and 60 were allowed by the Board.

Claim 56 is illustrative of the subject matter of the claims and reads as follows:

56. A power unit for intensifying and modulating hydraulic pressure, to be interposed as a unit in the hydraulic line between a master cylinder and an hydraulic motive means in a system of the character indicated, said power unit comprising a fluid pressure actuated member, pressure fluid connection means thereto, valve means for controlling the pressure fluid for actuating said fluid pressure actuated member, hydraulically actuated means for controlling said valve means, an hydraulic cylinder, low pressure hydraulic connection means to said hydraulic cylinder and to said hydraulically actuated means, means for cutting off communication between said low pressure hydraulic connection means and said hydraulic cylinder and for thereafter generating high hydraulic pressure in said cylinder while said hydraulically actuated means remains connected to said low pressure hydraulic connection means for controlling said valve means by low hydraulic pressure, said means for generating high hydraulic pressure in said cylinder including hydraulic piston means connected for operation by said fluid pressure actuated member, high pressure hydraulic connection means to said hydraulic cylinder, said fluid pressure actuated member, hydraulic cylinder, piston means, valve means and hydraulically actuated means for controlling said valve means being assembled as an integral unit for unit handling and installation, and said fluid pressure connection means, said low pressure hydraulic connection means, and said high pressure hydraulic connection means constituting the sole essential operative connections to said power unit.

The references cited are: Smart, 732,789, July 7, 1903; Carpenter, 791,075, May 30, 1905; Loughead, 1,472,801, November 6, 1923; Cruse, 1,875,723, September 6, 1932; Rockwell, 1,896,374, February 7, 1933; Pardee, 1,927,752, September 19, 1933; Rockwell, 1,953,988, April 10, 1934; Sciaky, 2,032,185; February 25, 1936; Russell, 2,053,301, September 8, 1936.

The application is a division of application Serial No. 239,436, which covers the system or combination of a master cylinder, power unit and brake motors, especially as applied to braking systems on vehicles. The present application is limited to the power unit per se.

The invention relates to a vacuum-air differential power unit to be installed any place in the hydraulic line between the master cylinder and the wheel brake cylinders. The unit permits foot-generated pressure from the master cylinder to be transmitted through the hydraulic line to the brake cylinders on the wheels so as to adjust the brakes into operative position. Thereafter, the power unit, under control of the said foot-generated pressure, comes into action to increase the pressure on the brake cylinders to the desired braking force. The elements of the power unit are encased in a housing and are set forth in the quoted claim.

Appellant in his application states that his invention relates particularly to a power unit applicable to systems for the application of power for any desired purpose, but with special application in connection with the operation of automotive accessories. While none of the rejected claims are limited to a power unit for use on motor driven vehicles, the case has been briefed and argued entirely as to such use.



In his brief appellant states that the broad substance of his invention resides in a power unit to be installed as such between the master cylinder and the brake cylinders of a standard hydraulic brake system.

It will not be necessary to describe the inventions in the great number of cited patents, but such of them as may be necessary to consider we will discuss.

The Sciaky patent relates to a transmission system for a pressure-operated member such as a hydraulic press. It discloses a means for first applying moderate hydraulic pressure and a means, which is activated automatically when the former pressure reaches a certain stage, for intensifying the pressure.

The Primary Examiner demonstrated in detail in parallel columns the application of all the elements of claim 56 to the Sciaky and Carpenter patents, and rejected it as not patentable over either of them, or each of them in view of the patents to Pardee, Loughead, Smart or Rockwell (appellant here). In view of our conclusion it is not necessary to discuss the Carpenter patent.

Appellant does not seem to contend that the power unit of the rejected claims differs essentially from those of the Sciaky and Carpenter patents. He urges that the devices disclosed therein are not unitary structures which could be handled and detached as a unit on a machine such as an automobile. It is quite true that those references do not state the use of the devices in connection with motor-driven vehicles, but as heretofore noted none of the rejected claims is limited to the unit in an automobile.

[1] In describing his drawing, the patentee Sciaky states that the showing is diagrammatic. Clearly his device is not shown as a unit, as is the device of appellant. The Examiner held, however, that it would not require invention to assemble the elements of the Sciaky patent into a unit, as, for instance, mounting them on a common base or placing them in a housing. It seems to us that such an expedient would be obvious to one skilled in the art, for the reason that diagrammatic drawings are commonly used by draftsmen in similar situations.

The Examiner further referred to the Pardee, Loughead, Smart and Rockwell patents as illustrating brake mechanisms designed in unit form. It is clear to us that the elements disclosed in the rejected claims are clearly met by the device of the Sciaky patent, particularly in view of the references last-mentioned.

[2][3] Appellant contends most vigorously that the introductory clause of the rejected claims defines "the gist and substance of the invention," and that it limits the invention to a power unit to be installed as such between the master cylinder and the brake cylinders. The general rule is that the introductory clause of a claim which states only the environment, intended use or purpose of the structure later recited in the claim is not a limitation on the subject matter. This, like most rules, is subject to exception. An examination of the authorities discloses that the exception governs when the introductory clause is that portion of the claim which gives meaning and vitality to it. *Hall* v. *Shimadzeu*, 19 C. C. P. A. (Patents) 1288, 59 F.(2d) 225, 13 USPQ 259, 424 O. G. 330; *Braren* v. *Horner*, 18 C. C. P. A. (Patents) 971, 47 F.(2d) 358, 8 USPQ 455, 408 O. G. 825; *In re Dawe*, 19 C. C. P. A. (Patents) 728, 53 F.(2d) 543, 11 USPQ 181, 414 O. G. 301; *In re Wolfe*, 21 C. C. P. A. (Patents) 974, 69 F.(2d) 550, 21 USPQ 105, 445 O. G. 540; *Deutsch et al.* v. *Ball*, 22 C. C. P. A. (Patents) 1322, 77 F.(2d) 930, 25 USPQ 470, 461 O. G. 245; and *In re Stacy*, 30 C. C. P. A. (Patents) 972, 135 F.(2d) 232, 57 USPQ 307, 554 O. G. 11. The introductory clause here does not, as contended by appellant, serve as a limitation on the elements of the claims which follow it, but, in our opinion, is merely a statement of the intended use of the power unit and a positioning thereof. We again point out that the claims are not for anything but the power unit.

Claim 58 was rejected for the same reasons as claim 56. It contains the additional limitation that the power unit is operated by the pressure differential between atmospheric air and vacuum. However, as pointed out by the Examiner, the use of an air-vacuum pressure differential is old in the art, as disclosed in the patents to Gruss, Rockwell, Loughead, and Russell.

Claim 61 is broader than claim 56 and was rejected on the same grounds.

[4] We are of opinion that claims 56, 58 and 61 have been properly rejected.

It is interesting to observe that the claims allowed by the Board each contains the same introductory clause as appears in the rejected claims. Of course they were not allowed for that reason, but appellant is certainly in no position to argue that his device has not sufficient patent protection under his allowed claims.

The decision of the Board of Appeals is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

### CHANDLER *v.* MOCK

*No. 5,000. Decided June 22, 1945*

[150 F.(2d) 563; 66 USPQ 209]

1. INTERFERENCE—REDUCTION TO PRACTICE—TESTS.

"To constitute reduction to practice of a complex mechanical device as the basis for awarding priority of invention, the law requires a preponderance of evidence in an interference proceeding to the effect that the device was subjected to a test under actual working conditions which demonstrated not that the device might work, but that it actually did work. See, *Jacke* v. *Long*, *Jacke* v. *Goldsborough*, 27 C. C. P. A. (Patents) 1147, 111 F.(2d) 184, 45 USPQ 354, 520 O. G. 4; *Payne* v. *Hurley*, 21 C. C. P. A. (Patents) 1144, 71 F.(2d) 208, 21 USPQ 624, 448 O. G. 3."

2. SAME—SAME—SAME.

"An engine is not defined as a limitation of the count here in issue and it is not for this court to say in what

manner an inventor shall make use of his device. However, the burden of proof was upon appellant to establish the use to which his carburetor was to be applied and to establish that the actual working conditions under which it was designed to function were present in making the test to which the device was subjected in order to establish its reduction to practice. *McKee* v. *Stevens*, 23 C. C. P. A. (Patents) 701, 79 F.(2d) 914, 27 USPQ 358, 462 O. G. 673."

3. SAME—SAME—SAME.

"Appellant produced no proof as to whether the nature of the tests that were made met these requirements. It is true, as stated in his brief, that 'the function of a carbureter is to mix the air, flowing to the engine, with gasoline or other combustible fuel; and to control the proportions of the mixture.' Moreover, carburetors, like spark plugs, are commonly used in engines and bench or shop tests which do not meet the requirements of the actual working conditions under which such devices are designed to operate are insufficient to constitute reduction to practice. *Mock* v. *Johnson*, 1923 C. D. 227, 52 App. D. C. 300, 286 Fed. Rep. 369, 313 O. G. 4; *Payne* v. *Hurley*, supra."

4. SAME—SAME—SAME.

Appellant's "air box" and bench tests *Held* insufficient to effect a reduction to practice of the carburetor in issue.

5. SAME—SAME—SAME.

*Held* that the witness who made the records of the engine tests of appellant's carburetor should have clearly and satisfactorily interpreted and explained them.

6. EVIDENCE—LEADING QUESTIONS.

"Wiegand's testimony was given some six years after the time when he had conducted the tests and made the records thereof. His recollection of what then took place as to the successful operation of the device should have been directly stated by him. Instead of doing that, the words were put in his mouth in the form of a conclusion by the leading questions of counsel. In appraising the value of evidence given under such circumstances, the Supreme Court of the United States made the following comment in the case of *The Barbed Wire Patent*, 143 U. S. 275, 284, 58 O. G. 1555: 'Witnesses whose memories are prodded by the eagerness of interested parties to elicit testimony favorable to themselves are not usually to be depended upon for accurate information."

7. INTERFERENCE—REDUCTION TO PRACTICE—TESTS—EVIDENCE AS TO SUCCESS.

In response to the contention that the statements of appellant's "expert" witnesses of successful operation should be sufficient to establish reduction to practice, *Held*, "While a witness in a court of justice is not to be disparaged because he has won renown in his field of endeavor, nevertheless his reputation cannot be utilized to cover a deficiency in evidence."

8. SAME—SAME—SAME.

Held that upon appellant rested the duty of adducing facts "essential to his case in establishing successful reduction to practice;" citing *Marden and Nicholson* v. *Braselton*, 28 C. C. P. A. (Patents) 1077, 119 F.(2d) 174, 49 USPQ 256, 529 O. G. 251; and *MacGregor* v. *Johnston*, 21 C. C. P. A. (Patents) 1216, 71 F.(2d) 165, 22 USPQ 42, 448 O. G. 508.

9. SAME—SAME—SAME.

"Appellant urges that the involved tests demonstrated that the basic structure of the invention here in issue was capable of producing the result sought to be accomplished and that only slight details of such structure were altered in a desire to achieve the best performance of the tested device. * * * The cases relied upon by appellant in this connection disclose that in each instance the invention described in the issue had been reduced to practice and that subsequent alterations were made to perfect its operation. Such is not the case here."

APPEAL from the Patent Office. Affirmed.

*Mr. Edgar Cummings Sanborn* and *Mr. Edwin R. Hutchinson* for Chandler.

*Mr. W. A. Gebhardt* and *Mr. Charles M. Funkhouser* (*Messrs. Scrivener & Parker*, and *Mr. N. Douglas Parker, Jr.*, of counsel) for Mock.

O'CONNELL, *J.*:

This is an appeal by Chandler from an award of priority of invention to Mock in a decision of the Board of Interference Examiners of the United States Patent Office.

The interference involves appellant Chandler's patent, No. 2,228,000, granted January 7, 1941, on his application filed May 2, 1938, and appellee Mock's application, Serial No. 362,572, filed October 24, 1940, as a continuation of his application, Serial No. 118,718, filed January 2, 1937.

The subject matter of the invention pertains to a carburetor and is sufficiently described in the sole count in issue, which reads:

Fuel supply means for a throttle controlled carburetor having an air entrance and a moisture outlet connected to a super charger comprising, a source of fuel supply under pressure, pressure reducing means therefor, automatic means responsive to the absolute pressure at the discharge side of the supercharger for controlling the pressure reducing means, and automatic means responsive to the drop in pressure from the air entrance to the mixture outlet created by the throttle for controlling the pressure reducing means whereby the pressure on the fuel at the low pressure side of the pressure reducing means is responsive to the drop in pressure due to the throttle and also to the absolute pressure created by the supercharger.

Before the Board of Interference Examiners, appellant, the junior party, sought to establish priority of conception and reduction to practice by the testimony of the witnesses Chandler, Wiegand, and Hunt relative to certain engine and "air box" tests of the device described in the issue together with records alleged to have been made contemporaneously with the running of such tests during the latter part of August and the earlier part of September, 1936. Appellee, the senior party, submitted no testimony and for conception and reduction to practice relied on the date of his original application filed on January 2, 1937.

The Board held that while the construction of appellant's device satisfied the requirement of the count, nevertheless his device was not only insufficiently tested to effect its reduction to practice, but also that his conduct during the critical period was lacking in diligence.

The crux of the question to be here decided is the sufficiency of the tests of the involved device. Appellant urges that its reduction to practice was amply established and offers the following citations to the record in support of his position:

In September, 1936, Chandler's invention was subjected to extensive tests on an engine, by F. J. Wiegand, test engineer of the Wright Aeronautical Company, at Paterson, New Jersey (R. 252–4, Qs. 4–22). Chandler, who was present for some of the tests (R. 238–9, Qs. 61, 64–68; R. 241–2, Qs. 86–90), testified to the satisfactory operation of the apparatus and produced a record which he made, showing data compiled during certain of the tests (R. 239, Qs. 64–68). Wiegand testified that the apparatus operated successfully and performed the function for which it was intended (R. 254, Qs. 23 and 24). He accompanied his testimony by detailed test records which he made contemporaneously with the running of the tests (R. 255, Qs. 33–39).



Appellant further contends that since the limitations of the count do not include an engine, reduction to practice was established also by his evidence relative to "air box" tests made at Detroit and Dayton.

It appears from the evidence introduced by appellant that the carburetor of a small aircraft engine which operates in the right side up position at low altitudes is a simple device. But as aircraft engines have increased in power and the art of flying has advanced, a multiplicity of new elements have been required to enable an aircraft engine to operate at high altitudes under all weather conditions and in an inverted position.

The preliminary statement made by Chandler and verified by him under oath in the interference proceeding discloses that he had been working in connection with airplane carburetors for aviation engines and had been experiencing certain difficulties with the performance of the engines which he thought were due to carburetion difficulties. This was the problem that confronted Chandler and according to the respective specifications of the two devices here submitted by him, Chandler sought to solve the problem of the advanced art of aviation carburetion by the invention of the device described in the count.

In his testimony, Chandler identified Exhibit 1 as a carburetor which was developed by his organization prior to the date of the invention here in issue. In the original carburetor, Exhibit 1, described as an airplane carburetor in the application of Milton J. Kittler, Serial No. 107,386, filed October 24, 1936, the fuel flow was varied under the control of supercharger pressure, but it lacked what is called "load compensation." To improve that feature of the original carburetor, the invention here in issue, described in appellant's application also as an airplane carburetor, was developed by Chandler to supplement the original carburetor by adding a channel suction control to the supercharger control.

The parts of the respective carburetors, Chandler testified, were structurally different, but it is noted that the carburetor here in issue was designed to function with a supercharger and the supercharger is one of the elements defined in the count of the interference.

Appellee Mock urged before the Board of Interference Examiners that since the device in issue was designed to function in an airplane engine, appellant was obliged to put the carburetor to a test on an engine in an airplane. The Board overruled Mock's argument and held that the structure claimed by appellant could be applied to other engines because the count of the interference was not limited to an airplane engine. As hereinbefore stated, appellant here urges further that the count was not limited to an engine and he was therefore not required to use an engine in testing the device in order to establish its reduction to practice.

[1] To constitute reduction to practice of a complex mechanical device as the basis for awarding priority of invention, the law requires a preponderance of evidence in an interference proceeding to the effect that the device was subjected to a test under actual working conditions which demonstrated not that the device might work, but that it actually did work. See, *Jacke* v. *Long*, *Jacke* v. *Goldsborough*, 27 C. C. P. A. (Patents) 1147, 111 F.(2d) 184, 45 USPQ 354, 520 O. G. 4; *Payne* v. *Hurley*, 21 C. C. P. A. (Patents) 1144, 71 F.(2d) 208, 21 USPQ 624, 448 O. G. 3.

The engine tests relied upon by appellant were conducted by the witness Wiegand in the plant of the Wright Aeronautical Corporation at Paterson, New Jersey. Six carburetors embodying the channel suction control in combination with the supercharger pressure control were constructed by Chandler's organization and employed in making the tests. In the interference proceeding, Chandler testified that he was then unable either to locate or produce any one of the six carburetors complete upon which the tests were run.

Chandler testified further that he witnessed a test at Paterson on September 1, 1936, and as to another test and other pertinent matters, he said in response to questions by his attorney:

Q. 64. Have you any other test record in that book which is pertinent here?
A. On page 94 we show the data taken from an engine run on September 2, 1936. This data shows air flow pressure drop, fuel flow, fuel-air ration, supercharger pressure, diaphragm pressure and R. P. M.
Q. 65. Was that test satisfactory?
A. Yes. This one of numerous tests that were run in arriving at a final specification. As I look at the data, it looks as though the fuel-air ratios were acceptable.
Q. 66. Did you apply the date to that sheet?
A. This sheet is marked September 2, 1936.
Q. 67. In your handwriting?
A. Yes.
Q. 68. Was the date applied on that date?
A. Yes.
Q. 69. Is there any other record sheet in that book pertinent here?
A. Page 110 of this book is another data sheet.
Q. 70. Showing results of what?
A. Showing results of a test run at Paterson. This again illustrates that the diaphragm pressures could be varied to get different mixtures as desired.
Q. 71. Were all of these tests run with the same carburetor and the same control?
A. The tests were all run with carburetor No. 12 and probably with the same control although the control was being altered and modified from time to time to get additional information concerning its characteristics and functioning.

* * * * * * *

Q. 86. I hand you another letter dated September 3, 1936 and ask what that letter is?
A. This is a letter written by me to Scott Hunt from Paterson going over some of the development details of the carburetor and on Page 5 I mention the functioning of the control.
Q. 87. Will you read the pertinent part on Page 5 to which you refer?
A. "The control checks itself remarkably well on the engine and they are acquiring considerable confidence in it. Better put some of Stanton's Sperm Oil on the moving parts, that is, just a film of it." * * * "The big difference between the control on the engine and at Dayton is at wide open at Dayton it took only 10 inches diaphragm pressure to get 725 pounds. Here it took a net of 19 inches. I do not understand the difference."

. . . . . .

Q. 96. Your application for this patent was not filed until May 1938. What was the reason for the delay in filing the patent application?
A. In working with this control, we developed in the latter part of 1936 [Exhibit 1] a method of obtaining this enrichment that was only a function of fuel flow in place of being a function of diaphragm pressure and fuel suction. It therefore was a more simple device to make and use in production and after it demonstrated its ability to give the desired results we used it on the production carburetors. The carburetor with the control that we adopted for production [Exhibit 1] still lacks what we call load compensation and during 1937 a great many

studies were made as to how the control, as shown in the Patent No. 2,228,000, [here in issue] could be modified to perform the enrichening function and also to improve the load characteristics of the carburetor. These studies during this period of time were not successful and we, therefore, decided to file an application covering its original scope and use.

Wiegand testified that the engine tests at Paterson were conducted and recorded by him on log sheets. These sheets constituted the records of the engine tests, Exhibit 16, and are dated consecutively from September 4th to 12th, with the date of one sheet missing.

In response to questions propounded by appellant's attorney, Wiegand further testified:

Q. 22. Do I correctly understand that a carburetor equipped with the unit comprising Exhibits No. 6 and No. 8 was mounted on an engine and actually run?
A. That is right.
Q. 23. Were these tests successful? That is, did the carburetor equipped with the control consisting of Exhibits No. 6 and No. 8 operate successfully?
A. Yes.
Q. 24. Did the combination perform the function for which it was intended?
A. Yes.

Hunt was project engineer of the Chandler-Evans Corporation and associated with Mr. Chandler since 1917. At the time the involved tests were made he was employed as an experimental engineer. He testified that he was not present at any of the engine tests made in the Wright plant at Paterson. The evidence discloses, however, that Hunt had conducted "airbox" or "bench" tests both before and after the dates on which the engine tests were made. He identified appellant's Exhibit 13 as a letter he wrote and sent to Chandler on September 16, 1936. In this letter, written after the engine tests were completed, Hunt stated:

I believe the reason that the diaphragm does not work properly is because there is no vent to the backside of the diaphragm. This would allow diaphragm pressure to leak past the piston valve and tend to hold the diaphragm off its seat.

Hunt further testified:

Q. 34. What were the circumstances which occasioned the writing of this letter and the sending of the sketch?
A. I had been to Dayton the day before [September 15] with Mr. Chandler. I returned to Detroit and there were certain alterations that we desired to make in the control so that the fuel-air curve would be more nearly perfect. I changed the details of the valve on our bench test at Detroit so that Mr. Chandler would be able to make further alterations if the device I shipped to him did not meet the requirements. I enclosed the sketch which gives the assembly measurements of all the parts in question so that it would not be necessary for him to remeasure all the parts if any of the porting of the valve was to be changed.
Q. 35. Did you make, or were you present when other tests upon this invention were made?
A. I was present and conducted practically all the tests that were made in Detroit in what we call the bench test. I was not present at any engine tests made at Paterson at the Wright Aeronautical Corporation although I was present at tests made in the air box at Wright Field, Dayton, Ohio, on September 15.
Q. 36. Were all of the tests which you either made or witnessed satisfactory?
A. Yes.

[2] An engine is not defined as a limitation of the count here in issue and it is not for this court to say in what manner an inventor shall make use of his device. However, the burden of proof was upon appellant to establish the use to which his carburetor was to be applied and to establish that the actual working conditions under which it was designed to function were present in making the test to which the device was subjected in order to establish its reduction to practice. *McKee* v. *Stevens*, 23 C. C. P. A. (Patents) 701, 79 F.(2d) 914, 27 USPQ 358, 462 O. G. 673.

[3] Appellant produced no proof as to whether the nature of the tests that were made met these requirements. It is true, as stated in his brief, that "the function of a carburetor is to mix the air, flowing to the engine, with gasoline or other combustible fuel; and to control the proportions of the mixture." Moreover, carburetors, like spark plugs, are commonly used in engines and bench or shop tests which do not meet the requirements of the actual working conditions under which such devices are designed to operate are insufficient to constitute reduction to practice. *Mock* v. *Johnson*, 1923 C. D. 227, 52 App. D. C. 300, 286, Fed. Rep. 369, 313 O. G. 4; *Payne* v. *Hurley*, supra.

[4] For the reasons stated, the Board of Interference Examiners was manifestly right in deciding in the instant case that appellant's "air box" and bench tests were insufficient to effect a reduction to practice.

Considered in their most favorable light, such engine tests as were conducted by appellant leave a serious doubt as to whether or not they were sufficient to effect a reduction to practice.

Appellant urges that Chandler was present at one of the tests and made a notation on the log sheet at the time. Chandler figured out that the date of that test was September 1, 1936, but the testimony of Wiegand who made the tests and the consecutive dates of the log sheets leave a doubt as to whether or not a test was run on September 1.

Chandler was shown a sheet recording a test alleged to have been run on September 2, and stated: "As I look at the data, it looks as though the fuel-air ratios were acceptable." Moreover, while the data relative to such test is alleged to be identical with the data recorded on Wiegand's work sheet, Exhibit 16, nevertheless Chandler did not state he was present during the test or that he actually conducted it.

[5] As correctly indicated in the decision of the Board of Interference Examiners, apparently no two of appellant's witnesses described the same tests and, accordingly, they do not corroborate each other in this respect; and as to the records of the engine tests, they do not of themselves show whether the operation of the carburetor was successful. Wiegand who made them was not asked by appellant to explain or interpret them. Moreover, Exhibit 15 shows that during the period of its testing, Wiegand was instructing his subordinates regarding changes to be made in the control of the device on which he was making the test.

It is true, as pointed out in appellee's brief, that the witness Wiegand should have clearly and satisfactorily interpreted and explained the complex tabulations of figures compiled by him, "how they were obtained, what they meant, how the apparatus was connected, and what particular data showed that the control functioned as required by the count, namely 'whereby the pressure on the fuel at the low pressure side of the pressure reducing means is responsive to the drop in pressure due to the throttle and also to the absolute pressure created by the supercharger'. The witness did not pursue this course, however, and the test records standing alone are meaningless."

[6] Wiegand's testimony was given some six years after the time when he had conducted the tests and made the records thereof. His recollection of what then took place as to the successful operation of the device should have been directly stated by him. Instead of doing that, the words were put in his mouth in the form of a conclusion by the leading questions of counsel. In appraising the value of evidence given under such circumstances, the Supreme Court of the United States made the following comment in the case of *The Barbed Wire Patent*, 143 U. S. 275, 284, 58 O. G. 1555: "Witnesses whose memories are prodded by the eagerness of interested parties to elicit testimony favorable to themselves are not usually to be depended upon for accurate information."

[7] Relative to the oral testimony of his "expert" witnesses who stated that the device here in issue successfully operated, appellant states in his brief, with italics: "Actually, Wiegand, like Chandler, *is a carburetor engineer of the highest standing, thoroughly skilled in this art, and completely familiar with the devices tested and their operation.* The testimony of such witnesses as to the success of the tests which they conducted would be of adequate probative value to establish reduction to practice of the tested devices even if records of the tests had not been presented." Furthermore, *"Ample opportunity existed for full cross-examination of Wiegand upon his test data, and for the presentation of rebuttal testimony*, had opposing counsel entertained any doubt that the records did not support his assertion of satisfactory operation of the apparatus tested."

While a witness in a court of justice is not to be disparaged because he has won renown in his field of endeavor, nevertheless his reputation cannot be utilized to cover a deficiency in evidence. See *Marconi Wireless Telegraph Company of America* v. *United States*, 320 U. S. 1, 556 O. G. 339.

[8] Appellant urges in his brief that "The Wright Company and its engineer, Wiegand, were *obviously* acting with Chandler's consent, and in his behalf, in testing the apparatus," and [with reference to certain records] that "these increased pressure values in the engine manifold were, of course, due to the presence of the supercharger for use with which the Chandler control apparatus was designed." [Italics supplied.]

The facts upon which appellant bases the foregoing conclusions were essential to his case in establishing successful reduction to practice, and, if actually present in the operation of the tests, it would have been a simple matter to elicit testimony to that effect and establish such facts by a preponderance of evidence. Appellant has failed to meet the requirements of the law in this respect.



The following observations made by this court in two previously decided cases in which the junior party sought to establish prior conception and reduction to practice in an interference proceeding are here applicable:

It will be observed from the testimony quoted that in each of the questions propounded to this witness he was asked if the lamps were "successfully operated" or if the lamp was a "satisfactory development." There appears to be no reason why the facts upon which his conclusion was based should not have been brought out. *True, they could have been brought out upon cross-examination; nevertheless, the burden was upon appellants to establish priority of invention, and it was their duty to establish facts upon which the conclusion of satisfactory operation was based.* [Italics supplied.] *Marden and Nicholson* v. *Brasseiton*, 28 C. C. P. A. (Patents) 1077, 119 F.(2d) 174, 49 USPQ 256, 529 O. G. 251.

• • • This is not a case where an inexperienced individual inventor was struggling with the solution of a problem. The individuals connected with this controversy, upon both sides, were experienced experts in their respective lines of activity.

When the record is considered as a whole, including the fact that, although the machine tested in Rexburg is said to have worked perfectly in August 1925 the application for patent was not filed until September 1926 and all the circumstances surrounding the parties and the occurrences are looked to, we do not feel that the junior party should prevail simply upon the arbitrary oral statements that the occurrences took place in 1925. The memories of men are too treacherous to admit of blind reliance upon them, and of all the records which it seems that the appellant, Johnston, might have produced in the way of documentary evidence, tending to support the alleged dates, nothing really helpful was produced. *It seems to have been a case in which the effort was to see how little, rather than how much, could be proven.* [Italics supplied.] *MacGregor* v. *Johnston*, 21 C. C. P. A. (Patents) 1216, 71 F.(2d) 165, 22 USPQ 42, 448 O. G. 508.

[9] Appellant urges that the involved tests demonstrated that the basic structure of the invention here in issue was capable of producing the result sought to be accomplished and that only slight details of such structure were altered in a desire to achieve the best performance of the tested device. This contention was rejected by the officials of the Patent Office who are employed as experts in the determination of highly technical questions involving complex mechanical devices and it is impossible to sustain appellant's contention here in the absence of a preponderance of evidence to sustain it. The cases relied upon by appellant in this connection disclose that in each instance the invention described in the issue had been reduced to practice and that subsequent alterations were made to perfect its operation. Such is not the case here.

Chandler stated in his testimony that the invention described in the issue is structurally different from his original carburetor and it is not disputed by appellant that his patent application herein describes a structure that is different from the construction of the device tested.

In Chandler's own words, [June 11, 1942]:

• • • The carburetor with the control that we adopted for production still lacks what we call load compensation and during 1937 a great many studies were made as to how the control, as shown in the Patent No. 2,228,000, could be modified to perform the enrichening function and also to improve the load characteristics of the carburetor. These studies during this period of time were not successful and we, therefore, decided to file an application covering its original scope and use.

The record here submitted fully warrants the holding of the Board of Interference Examiners to the effect that appellant's evidence failed to establish that his device was tested sufficiently or with the proper results to effect its reduction to practice

and that since he was not actively engaged in reducing his device to practice at and immediately prior to the time appellee filed his application and entered the field on January 2, 1937, nor for sixteen months thereafter until appellant filed his application on May 2, 1938, he was lacking in diligence during the critical period.

It would serve no useful purpose to here state and discuss other questions presented by the respective parties inasmuch as appellant has failed to show reduction to practice prior to the filing of appellee's application on January 2, 1937, and was clearly lacking in diligence during the critical period.

For the reasons stated, appellee is entitled to an award of priority and the decision of the Board of Interference Examiners is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

IN RE KUHN ET AL.

*No. 5,007. Decided May 29, 1945*

[150 F.(2d) 145; 66 USPQ 117]

1. PATENTABILITY—INVENTION.

"The point of law which appellants raise was considered and passed upon by this court in the recent case of *In re Stover*, 32 C. C. P. A. (Patents) —, 146 F.(2d) 299, 64 USPQ 186, 573 O. G. 367. There we held that under well established authority no creative concept or invention is involved if the cited references, individually or collectively, suggest doing the thing that the applicant has done."

2. SAME—THERMAL RESPONSIVE WAFER.

Claims to a thermal responsive wafer and to the method of making it *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Mr. Frank H. Hubbard* (*Mr. Edwin R. Hutchinson* and *Mr. William C. Lyon* of counsel) for Kuhn et al.

*Mr. W. W. Cochran* for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner in rejecting, in view of the prior art, all of the claims in appellants' application for a patent. The alleged invention relates to expansible wafers and has among its objects to provide a wafer which alone constitutes a thermal responsive unit.

Of the appealed claims, Nos. 13, 15, 18, 20, 21, and 22 are for the device and 8 and 9 are for the method of making it.

Claims 8, 15, and 18 are illustrative and read as follows:

8. The method of forming a self-contained thermal responsive wafer having therein volatile liquid which comprises introducing a small quantity of volatile liquid by capillary action between two disks each formed of a single piece of sheet metal solid throughout the flexing area thereof and normally contiguous throughout such area and then uniting said disks peripherally to render the assembly vapor tight.

15. A self-contained thermal responsive wafer containing a volatile liquid and comprising two metal disks of like thickness of metal, which disks are drawn to like forms and together for assembly in substantially liquid tight relation, each consisting of a single piece of sheet metal solid but flexible from its center to its margin, and said disks being marginally welded with their opposing flexible faces normally contiguous throughout to a degree obtainable only under substantial pressure thereby to restrict to a very thin and air-free film the liquid between said faces.

18. In combination, relatively movable parts and a self-contained thermal responsive wafer to effect relative movement of said parts, said wafer containing a volatile liquid and comprising sheet metal disks substantially alike and of like thickness of metal, each being solid and flexible from its center to its margin and said disks being marginally welded with their opposing flexible faces contiguous throughout, thereby to restrict to a very thin and air-free film the liquid between said faces, said wafer being supported by and between bearings on said relatively movable parts, which bearings engage said wafer centrally on opposite sides.

The references cited are: Barnett et al. (British), 10,100, June 18, 1903; British patent, 101,256, August 31, 1916; Halsey, 1,073,899, September 23, 1913; Wingfield, 1,527,102, February 17, 1925; Persons, 2,180,018, November 14, 1939; Persons, 2,203,841, June 11, 1940; Leonard et al., 2,206,905, July 9, 1940.

The patent to Halsey relates to a volatile liquid thermostat, and omitting all references to drawings, the pertinent parts, insofar as the case at bar is concerned, read as follows:

The object * * * is to increase the sensibility, smooth and uniform travel of the diaphragm and to simplify manufacture.

* * * the thermostat consists of two dished flanged corrugated metal disks, the concave disk, forms the flexible diaphragm, pressed from thin tinned sheet steel which corresponds in form to the thicker and rigid front plate. The diaphragm plate is inserted within the flange of and against the front plate, and soldered about the periphery, thus forming a hermetically sealed expansion chamber entirely of steel or iron, the interior surface of which may be either tinned or bare. * * *

* * * * * * *

A small and definite quantity of a suitable liquid having its boiling point under atmospheric pressure at approximately 66 degrees Fahrenheit, is sealed between the diaphragm and front plate, being just sufficient in quantity to distend the diaphragm to its safe limit of travel when said liquid is fully volatilized. When the liquid is condensed the flexible diaphragm collapses snugly against the front plate, leaving a thin film of liquid between, all air being carefully excluded. * * *

In this specification, Wingfield describes his invention, so far as pertinent to the issue in this case, as follows:

My invention relates to steam traps having a valve that is actuated by the expansion and contraction of a capsule containing a volatile liquid, * * *

A steam trap capsule in accordance with my invention consists essentially of a rigid circular plate or disc corrugated on one side or face, a diaphragm or elastic plate spun or pressed over the corrugated side of the rigid plate and hard or silver-soldered or welded to the rigid plate simultaneously with a filling tube, the diaphragm being spun into the corrugations of the back plate after the hard soldering or welding operation to reestablish its elasticity. The diaphragm carries the valve or the valve holder and the rigid back plate is provided with means for suspending the capsule.

* * * * * * *

* * * When the diaphragm is corrugated the chamber between it and the plate 1 is evacuated and liquid is sucked into it through the capillary tube which is then closed at its end by hard-soldering or welding and embedded in its groove 12. * * *

The Persons patent, No. 2,180,018, relates to a thermostatically operated switch. Omitting references to drawings, we quote from the specification:

It is an object * * * of the invention to provide means for transmitting the extremely small motion of a thermal element into the relatively greater motion of switch elements or the like.

The invention further comprehends means for adjusting the thermal elements so that the switch will operate at different temperatures.

* * * * * * *

A pair of diaphragms are secured together at their peripheries, and normally they are contiguous throughout substantially all of their faces. [One] diaphragm is secured to [a] tubular stud and is in communication with the bore therethrough. By this means, the fluid transmitted by the tube from [a] suitable bulb acts to separate [one] diaphragm from the [other] diaphragm * * *. Preferably, the fluid * * * fills the entire space therein so that no air is present in the system. However, when the fluid is cold, the diaphragms are contiguous * * * and separate only when the fluid is heated. The fluid may comprise a suitable liquid.



The patent to Persons, No. 2,203,841, relates to a thermostat comprising two corrugated members which are stamped together so as to insure that they will interfit and permit the two members to be contiguous throughout. Any space that may exist between the two members is adapted to be completely filled with some thermally-responsive material, preferably of the liquid type.

The patent to Leonard et al. relates to the valve art. The specification describes "a thermostatic element, whereby the thermostatic element 31, which is formed of thin flexible metal and it contains an expansible fluid, may be retained between the two heads, the thermostatic element 31 being shaped at its central portion so as to snugly fit within the concave heads 18 and 28."

The Barnett et al. patent relates to a thermostat to automatically control the degree of heat to be used as a circuit closer in green-houses, incubators or as a fire alarm. The device has two corrugated disks made of thin brass, the corrugations of one disk fitting into the other so that there is comparatively small space between them. The disks are soldered or brazed together leaving only a small part unjoined to enable the space between the disks to be filled with ether or with methylated spirit or both. After filling, the space between the disks is hermetically sealed.

The British patent, No. 101,256, so far as pertinent, reads as follows:

This invention relates to improvements in steam traps of the class operated by the expansion and contraction of a hermetically sealed capsule or chamber containing a volatile liquid and its vapour.

* * * * * * *

* * * the capsules or the like are made of steel and are hermetically sealed by welding, preferably electric welding, * * *.

The foregoing references disclose that the device and the method of manufacture as described in appellants' application are old in the art and quite common. It is important therefore to examine appellants' arguments to learn just what they claim they did that was neither done nor suggested by those to whom patents have been previously granted.

"What appellants did," and we quote from their brief, "was to stamp and form the two disks together in nested relation for *likeness and intimate contact* of the disks to limit the liquid fill *to a minute quantity. They taught filling* by *capillary action*, as by placing the nested disks in a container to be progressively evacuated and filled with a volatile liquid. They taught filling as a step to be taken prior to uniting the disks peripherally. They taught sealing of the wafer by welding together the peripheral flanges of the two disks while maintaining the disks in intimate relation thus to provide for return of the disks to intimate relation following expansion of the wafer." [Italics not ours.]

It will be noted that both the British references show a sealed wafer comprising two flexible disks confining a volatile liquid, while Leonard et al. and the Persons references show the use of expansible liquid which accomplishes the same purpose as the volatile liquid employed in the device disclosed by appellants.

Claims 8 and 9, drawn to method, were rejected by the Primary Examiner as being substantially met by the patent to Halsey and as lacking invention over Barnett et al. in view of the patent to Persons, No. 2,203,841. The aforesaid claims, as well as the remainder of the appealed claims, were adequately examined and passed upon in the decision of the Board of Appeals, which, so far as pertinent, reads as follows:

Claims 8 and 9, which are drawn to the method, stand rejected as being * * * substantially met by the patent to Halsey, and as lacking invention over Fig. 2 of Barnett in view of the Persons Patent 2,203,841. * * * With respect to the rejection on the patent to Halsey, while the patentee does not state the manner in which the liquid is introduced between the plates or introduction of the volatile liquid while the flexing portions are normally contiguous, Wingfield does show the idea of introducing a volatile liquid by capillary action through a capillary tube, after which the device is sealed.

With respect to the rejection on Barnett and Persons, the Examiner states that the provision of closely interfitting corrugated metal disks with upstanding flanges as well as a closely interfitting relation by forming them together as suggested by Persons, would appear to involve no more than skill in the art and produce no new result. In this connection, it is noted that Persons discloses his corrugations as being stamped together so as to insure that they will interfit and permit the two members to be contiguous throughout.

In view of the prior art referred to above, and for the reasons stated and discussed by the Examiner, we consider that claims 8 and 9 do not define a patentable invention over such art.

Claims 13 and 15 recite the close together relation of the disks and these claims stand rejected as being unpatentable over Halsey on the ground that the disks of this patent are so arranged with respect to each other that they must be separated by the minute amount necessary to accomodate [sic] the liquid therebetween. Halsey states that he uses a small and definite quantity of suitable liquid which in just sufficient in quantity to distend the diaphragm to its safe limit of travel when said liquid is fully volatilized. It is stated further that when the liquid is condensed the flexible diaphragm collapses snugly against the front plate F leaving a thin film of liquid between, all air being carefully excluded. With respect to the limitation that the opposing flexible faces of the disks are normally contiguous throughout to a degree obtainable only under substantial pressure, the Examiner refers to the patent to Persons 2,203,841 as showing it to be old in the art to form two nested disks by stamping when closely interfitting disks are required.

Appellants argue that Halsey does not show a film of vaporizable liquid of a thickness not greater than that possible with the disks, prior to sealing, pressed together under high pressure. We have carefully considered this rejection in the light of appellants' arguments in his [sic] brief and it is our conclusion that these claims were properly rejected, since whatever difference in film thickness of the liquid there may be between appellants' device and that of the references is not critical, but would amount, at most, to a matter of degree.

Claim 18 defines the relatively movable parts to be actuated by the wafer and bearings for the wafer centrally engaging the wafer on opposite sides. With respect to this limitation, the Examiner refers to the Persons Patent 2,180,018 as showing that a wafer mounting of this type is common practice. The Wingfield patent is also referred to in this connection. We agree with the Examiner that there is no invention in the type of bearings called for in this claim, and we likewise agree with the Examiner that there would be no invention in utilising the movement of two corrugated members instead of a single member as in Halsey, in view of the Persons Patent 2,180,018, which is relied upon to show the latter feature. While the wafer of the Persons patent may not be imperforate or formed of a pair of solid disks, as claimed, such construction is old in the art as shown by Halsey. We see nothing inventive or unobvious in making both disks of the wafer of Halsey flexible if desired.

Claim 20 contains the limitations that the disks are essentially flat with clean and smooth adjacent faces. * * * While Halsey proposes the use of pulverized quick lime in the chamber between the disks and shows what appears to be a cupped diaphragm as distinguished from the essentially flat wafer called for in this claim, * * * it would not amount to invention to make the

Halsey plates essentially flat since this form of wafer appears to be well known to the art, nor do we see anything patentable in the idea of making the adjacent faces of the disks clean and smooth. Halsey apparently uses powdered lime because of the gas selected, but it is to be noted that he uses high grade tin plate for his diaphragm, which is ordinarily clean and smooth.

Claims 21 and 22 appear to be rejected on the ground that they do not patentably distinguish over claim 20. Appellant points out that claim 21 defines the disks as being essentially flat, which has already been referred to above, and that they have concentric corrugations, the latter feature being old in the art as shown by Halsey, Persons and Wingfield. As to the contiguousness of the adjacent faces of the disks throughout, as defined in claim 22, this limitation appears to be fully satisfied in the patents to Persons and even Halsey when the disks are collapsed.

Citing the cases of *In re Hofmann*, 25 C. C. P. A. (Patents) 975, 95 F.(2d) 257, 37 USPQ 222, 494 O. G. 471, and *In re Bencker*, 25 C. C. P. A. (Patents) 1097, 96 F.(2d) 326, 37 USPQ 537, 496 O. G. 282, appellants contend that:

> The Examiner and the Board neglecting the directions given them by this court in the above cited cases, considered the requirements of the claims individually rather than collectively, ignoring certain requirements, and both straining the references and combining the references regardless of type.

Referring to the invention in the Hofmann case, this court in the opinion of the majority, so far as pertinent, stated:

> • • • His [appellant's] creative concept should, therefore, be considered in its entirety in order to determine whether the solution of the problem confronting him (that of providing a container that would prevent the unintentional use of poisonous preparations) involved invention. • • •

The Bencker case held that invention was involved in the creative concept of combining elements of the prior art, as the structure defined in appellant's application would not be obvious to one skilled in the art after examining the cited references.

[1] The point of law which appellants raise was considered and passed upon by this court in the recent case of *In re Stover*, 32 C. C. P. A. (Patents) —, 146 F.(2d) 299, 64 USPQ 186, 573 O. G. 367. There we held that under well established authority no creative concept or invention is involved if the cited references, individually or collectively, suggest doing the thing that the applicant has done.

Obviously, the decisions relied upon by appellants are not applicable to the situation presented by the record in the instant case. The appealed claims, in their entirety, fail to disclose a creative concept for the reason that what appellants have done would be obvious to one skilled in the art after examining the cited references.

With respect to appellants' complaint as to the use of the references by the Patent Office, it may be well to call attention to the fact that the object of an inventor who applies for a patent should be not only to obtain a patent for his invention, but also to obtain a valid patent that will not be subject to a successful subsequent attack for infringement.

[2] It is our opinion based upon a study of the facts herein and the references cited that the Board of Appeals properly rejected the appealed claims.

For the reasons stated, the decision of the Board of Appeals should be affirmed.

Affirmed.

## Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,647,753, Scott & Wellensiek, Drill cutter; 1,856,627, H. W. Fletcher, Cutter for earth boring drill; 1,905,079, Wellensiek & Smith, Roller cutter retaining device; 1,918,902, Fletcher & Kuklell, Conical cutter drill; 1,983,283, L. E. Garfield, Bearing for drill cutter; 2,294,544, same, cutter teeth for well drills; 1,983,316, Scott & Garfield, Three-cone bit; 1,993,286, F. L. Scott, Drill cutter; 2,011,084, same, Mounting for drill cutters; 2,030,442, Garfield & Scott, Roller bearing bit; 2,038,387, F. L. Scott, Roller boring well drill, D. C. Del., Doc. 463, *Chicago Pneumatic Tool Co. et al.* v. *Hughes Tool Co.* Counts 1, 2, and 3 dismissed; complaint dismissed (notice Sept. 12, 1945).

1,744,016, A. P. Steckel, Metal rolling; 1,779,195, same, Method and apparatus for rolling thin sheetlike material, filed July 27, 1943, D. C., N. D. Ohio, E. Div., Doc. 21910, *U. S. A.* v. *Cold Metal Process Co. et al.*

1,779,195. (See 1,744,016.) 1,856,627. (See 1,647,753.)

1,905,079. (See 1,647,753.)

1,917,262. (See Re. 21,956.)

1,918,902. (See 1,647,753.)

1,933,947, M. Weber, Suction fan wheel; 1,933,948, same, Fan wheel; 1,933,949, same, Fan wheel for automobiles; T. M. 306,110, Des. 91,001, same, Impeller wheel; 2,123,448, Des. 91,002, Des. 95,720, same, air circulator; Des. 101,018, same, Fan wheel guard; 2,088,312, same, Air circulation, filed Sept. 12, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1530, *Peerless of America, Inc., et al.* v. *Roto Beam Corp. of America et al.*

1,933,948. (See 1,933,947.) 1,933,949. (See 1,933,947.)

1,983,283. (See 1,647,753.) 1,983,316. (See 1,647,753.)

1,993,286. (See 1,647,753.) 2,011,084. (See 1,647,753.)

2,030,442. (See 1,647,753.) 2,038,387. (See 1,647,753.)

2,074,243, H. Taff, Cover for garment hangers, filed Sept. 10, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1513, *The Fleischer Mills, Inc.*, v. *H. Taff et al.*

2,088,312. (See 1,933,947.)

2,095,535, M. G. Swenson, Artificial tooth, D. C. Minn. (Minneapolis), Doc. 1093, *M. G. Swenson* v. *Henry P. Boos Dental Laboratories.* Judgment for defendant Sept. 18, 1945.

2,111,345, W. O. Wells, Anti-wear guard for gloves, filed Sept. 12, 1945, D. C. Oreg. (Portland), Doc. 2899, *Wells Lamont Corp.* v. *Portland Glove Co. et al.*

2,123,448. (See 1,933,947.)

2,144,600, R. S. Koonce, Method of and apparatus for loading heavy spools; 2,335,517, same, Apparatus for loading heavy spools; 2,335,518, same, Apparatus for loading and transporting large spools; 2,277,219, J. B. Fulton, Loading device; 2,335,516, H. B. Koonce, Method and apparatus for loading articles, filed July 30, 1945, D. C., M. D. N. C. (Greensboro), Doc. —, *Transport Apparatus & Device Co.* v. *Overnite Transportation.*

2,221,213, J. A. Borden, Tape dispenser, filed Sept. 24, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1593, *Minnesota Mining & Mfg. Co.* v. *Industrial Tape Corp.*

2,258,638, W. A. Zarth, Bone conduction audiphone; Re. 22,658, H. Koch, same, filed Sept. 24, 1945, D. C., S. D. N. Y., Doc. 33/110, *Dictograph Products Co., Inc.*, v. *Zenith Radionics Corp. of N. Y.*

2,277,219. (See 2,144,600.)

2,292,628, B. W. Fry, Coin selector, filed Sept. 26, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1618, *National Slug Rejectors, Inc.*, v. *A. B. T. Mfg. Corp.*

2,294,544. (See 1,647,753.)

2,295,917, J. F. Schwan, Hay loader and stacker, filed Sept. 28, 1945, D. C. Kans. (Topeka), Doc. 5581, *Superior Separator Co. et al.* v. *Ottawa Steel Products, Inc.*



2,300,101, E. R. Capita, Spark gap and circuit therefor, filed Sept. 24, 1945, D. C. N. J. (Newark), Doc. 6521, *E. R. Capita* v. *American Type Founders, Inc.*

2,322,041, E. L. Mayo, Automotive vehicle heating apparatus, filed Sept. 21, 1945, D. C., N. D. Ohio, E. Div., Doc. 23354, *Excel Auto Radiator Co.* v. *Bishop & Babcock Mfg. Co.*

2,325,516. (See 2,144,600.) 2,325,517. (See 2,144,600.)

2,325,518. (See 2,144,600.)

2,341,520, M. A. Babb, Starting and operating circuit for gaseous electric discharge device, filed Sept. 25, 1945, D. C. N. J., Doc. 6529, *The Lloyd Products Co.* v. *M. M. Bilofsky et al.*

2,343,086, A. J. Schultz, Safety suspension device, D. C., S. D. N. Y., Doc. 26/557, *Simplex Safety Block Co., Inc., et al.* v. *H. B. Cohen et al.* Consent decree adjudging infringement Sept. 13, 1945.

2,350,327, B. Ender, Hydraulic scoop, filed Sept. 14, 1945, D. C. Wis. (Milwaukee), Doc. 2835, *B. Ender et al.* v. *Arps Corp. et al.*

2,357,312, J. Cryns, Method of preparing wheat germ for use in baking, filed Sept. 17, 1945, D. C., S. D. Ill., N. Div., Doc. P–682, *The Bryo Co.* v. *B. C. Henning.* Same, D. C., N. D. Ill., E. Div., Doc. 45c1560, *The Bryo Co.* v. *G. D. Burke & Co.*

2,369,415, E. B. Sherman, Method of repairing cracked cylinder heads and blocks, filed May 25, 1945, D. C., M. D. N. C. (Greensboro), Doc. —, *E. B. Sherman* v. *A. Anthony et al.*

Re. 18,856, A. Weiss, Rotary intaglio printing machine, D. C., S. D. N. Y., Doc. 25/216, *Babcock Printing Press Corp.* v. *Speedry Gravure Corp. et al.* Consent order of discontinuance (notice Sept. 28, 1945).

Re. 21,956 (of 1,917,262), P. E. Hawkinson, Method of retreading tire casings, filed Feb. 4, 1944, D. C., E. D. Ill. (East St. Louis), Doc. 814, *P. E. Hawkinson Co.* v. *E. A. Peters.* Decree pursuant to stipulation granting injunction effective on and after Dec. 1, 1945. Same, filed Sept. 24, 1945, D. C., M. D. Ga. (Macon), Doc. 383, *P. E. Hawkinson Co.* v. *Den-Nap Electric Mold Co. et al.*

Re. 22,658. (See 2,258,638.)

Re. 22,658, H. Koch, Bone conduction audiphone, filed Sept. 24, 1945, D. C., S. D. N. Y., Doc. 33/110, *Dictograph Products Co., Inc.*, v. *Zenith Radionics Corp. of N. Y.*

Des. 91,001. (See 1,933,947.)

Des. 91,002. (See 1,933,947.)

Des. 95,720. (See 1,933,947.)

Des. 101,018. (See 1,933,947.)

Des. 123,442. (See T. M. 161,439.)

Des. 123,443. (See T. M. 161,439.)

Des. 140,670, E. O. Moncer, Wall vase; Des. 140,823, same, Vase, filed Sept. 11, 1945, D. C., S. D. W. Va. (Huntington), Doc. 330, *E. O. Moncer* v. *J. D. Cober et al.*

Des. 140,823. (See Des. 140,670.)

T. M. 161,439, Chicago Flexible Shaft Co., Lawn sprinkler; T. M. 401,051, same, Lawn sprinklers, hose nozzles, hose couplings, etc.; Des. 123,442, Des. 123,443, F. O. Weirich, Lawn sprinkler, D. C., N. D. Ill., E. Div., Doc. 45c952, *Chicago Flexible Shaft Co.* v. *D. L. Lachance et al.* Consent decree Sept. 18, 1945.

T. M. 306,110. (See 1,933,947.)

T. M. 368,528, Loma Linda Food Co., Beverage making compound, D. C., N. D. Ill., E. Div., Doc. 4791, *Loma Linda Food Co.* v. *Sokol & Co., Inc., et al.* Consent decree Sept. 26, 1945.

T. M. 401,051. (See T. M. 161,439.)

## Register of Patents Available for Licensing or Sale

Pat. 2,264,300. COMPACT AND THE LIKE FOR RECEIVING AND PRESERVING COSMETIC AND SIMILAR PADS. Patented Dec. 2, 1941. Vanity case having hinged sections separated by mirror which serves as cover for section with well containing impregnated cleansing pads, small openings being provided for adding liquid; other section holds powder, rouge, lipstick, etc. (Owner) Helen Davies, 4172 Judge St., Elmhurst, Long Island, N. Y. Groups 34—51; 39—72—81. Reg. No. 557.

Pat. 2,383,573. CLOSURE PLUG WRENCH. Patented Aug. 28, 1945. Metal bar with handle disposed at right angles to bar, a cold chisel formation on one end of bar and a striking face on the other; a wrench member welded to bar slightly back of the striking face, has slot to accommodate various sized closures. (Owner) Frank J. Tomsek, 1314 Holden Ave., Detroit 2, Mich. Groups 33—51—52; 35—42. Reg. No. 556.

Pat. 2,382,014. UNIVERSAL DEMODULATOR FOR FREQUENCY AND AMPLITUDE MODULATION. Patented Aug. 14, 1945. Provides an amplitude-modulation index independent of frequency-modulation and applies said index for compensation of the undesired effect of amplitude-modulation on the frequency-voltage conversion factor of the frequency-demodulator resulting in economies of structure for both FM and AM reception. (Owner) Edward H. Lange, 3608 Forest Hill Rd., Baltimore 7, Md. Group 36—61. Reg. No. 559.

Pat. 2,382,015. DEMODULATOR FOR FREQUENCY AND AMPLITUDE MODULATION. Patented Aug. 14, 1945. Employs an amplitude-modulation index independent of frequency-modulation, derived from double-diode means, and applies said index through compensator-tube means to appropriately cross-modulate a push-pull amplifier to compensate for undesired effect of amplitude-modulation upon the frequency-demodulator. Provides economies in structure for receivers of FM and AM. (Owner) Edward H. Lange, 3608 Forest Hill Rd., Baltimore 7, Md. Group 36—61. Reg. No. 560.

Pat. 2,383,323. DEMODULATOR DEVICE FOR FREQUENCY AND AMPLITUDE MODULATION. Patented Aug. 21, 1945. Demodulator device employing a double diode with a common cathode, and a control means with said common cathode including a third anode for compensating undesired effect of amplitude-modulation on the frequency voltage conversion factor of the frequency-demodulator; providing single tube circuits for FM and AM reception simultaneously. A novel control for connected devices by FM and AM jointly, and economy of tubes and circuit structure for FM and AM receivers. (Owner) Edward H. Lange, 3608 Forest Hill Rd., Baltimore 7, Md. Group 36—61. Reg. No. 561.

Pat. 2,369,055. THERMIONIC DEVICE FOR CONVERTING FREQUENCY-MODULATION INTO AMPLITUDE-MODULATION. Patented Feb. 6, 1945. A frequency-demodulator effecting economies of circuit structure and elements for FM and AM receivers with automatic frequency-control. Employs a parallel resonant circuit in series with a choke-coil and double-diode. (Owner) Edward H. Lange, 3608 Forest Hill Rd., Baltimore 7, Md. Group 36—61. Reg. No. 562.

Pat. 2,109,799. BAT ASSEMBLY. Patented Mar. 1, 1938. Compacts a tennis racquet by sectionalizing the handle so that it swings into contact with the head and acts as both a brace to the stringed frame to prevent warping and a securing means for a ball holder which is an added feature of the invention. Provides complete assemblage of equipment allowing easy accommodation in traveling bags. Adaptable to sports equipment similar to that used in tennis; i. e., badminton, ping-pong and the like. (Owner) Earl E. Moore, 501 Lillian Way, Los Angeles 4, Calif. Group 39—49. Reg. No. 563.

Pat. 2,236,729. GAME APPARATUS. Patented Apr. 1, 1941. Relates to a game board with an elastically dead surface so that games such as billiards may be simulated and utilize the projection and impact of marbles without danger of bouncing. (Owner) Edward A. Herr, 4021 Walnut St., Philadelphia, Pa. Group 39—41. Reg. No. 564.

Pat. 1,914,190. GARMENT DRIER FOR BOUDOIR USE. Patented June 13, 1933. Adjustable rack is positioned above an electric heating unit amply protected by a heat-resistant, non-conducting and non-combustible material such as asbestos. A wire mesh is provided to prevent clothes from falling through to wiring. Heat produced is diffused so that there is no localization of undue heat in spots, thus a garment may be left upon the heater without fear of burning. (Owner) Edward A. Herr, 4021 Walnut St., Philadelphia, Pa. Groups 25—99; 40. Reg. No. 565.

Pat. 2,206,188. SMOKING PIPE. Patented July 2, 1940. Relates to a pipe of usual appearance. To provide a "dry pipe" the bore of the bowl section does not connect with the bore of the stem except through the provision of an L-shaped conduit of relatively small bore so positioned as to prevent the passage of saliva into the stem. Conduit is removable for cleaning and arrangement allows a longer stem with a cavity of larger diameter to be fitted to the neck of the bit. (Owner) Edward A. Herr, 4021 Walnut St., Philadelphia, Pa. Group 39—96. Reg. No. 566.

Pat. 2,013,372. RELIEF VALVE. Patented Sept. 3, 1935. Reg. No. 567.

Pat. 2,053,931. PRESSURE CONTROL VALVE. Patented Sept. 8, 1936. Reg. No. 568.

Pat. 2,089,144. CONTROL VALVE FOR WATER PRESSURE SYSTEMS. Patented Aug. 3, 1937. Reg. No. 569.

Pat. 2,150,460. PRESSURE CONTROL MECHANISM. Patented Mar. 14, 1939. Reg. No. 570.

Pat. 2,252,152. PRESSURE CONTROL VALVE. Patented Aug. 12, 1941. Reg. No. 571.

The five patents listed above cover valves primarily designed for use in closed hot water heating systems for maintaining the water pressure within the system between predetermined maximum and minimum limits. The valves are of the diaphragm type and designed so that they are held against the seat by the pressure within the system and are unseated by a stop member when pressure rises or falls below the maximum and minimum pressures respectively. (Owner) Patent Development Company Limited. Address all correspondence to Charles H. Riches & Sons, 45 Richmond St. West, Toronto, Ontario, Canada. Group 33—61—66.

Pat. 2,373,181. TRANSDUCER. Patented Apr. 10, 1945. Provision of a phonograph pickup of the electro-magnetic type operating with a total unbalanced weight (on a lateral-cut record) so low as to permit use of a permanent stylus of hard material, such as diamond or sapphire, without appreciable wear and capable of reproducing truer sound. Damping material is employed to overcome the natural oscillations of the armature and to remove the slight ringing quality usually associated with sound reproduction. (Owner) Lawrence Fleming, 510 N West St., Falls Church, Va. Group 36—61. Reg. No. 572.

**Notice**

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# TRADE-MARKS

## OFFICIAL GAZETTE, NOVEMBER 13, 1945

[VOL. 580. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 482,667. ARNOLD PLASTIC CO., Toledo, Ohio. Filed Apr. 27, 1945.

APCO

FOR SYNTHETIC PLASTICS IN GRANULAR, SHEET TUBE, AND ROD FORM FOR USE FOR VARIOUS PURPOSES IN THE INDUSTRIAL ARTS.

Claims use since Mar. 10, 1945.

### CLASS 2

### RECEPTACLES

Ser. No. 487,734. IVERS-LEE COMPANY, Newark, N. J. Filed Aug. 29, 1945.

UNI-VAC

FOR MERCHANDISE ENVELOPES FORMED OF METAL FOIL CELLOPHANE, PLIOFILM, OR THE LIKE WITH OR WITHOUT PAPER COVERS.

Claims use since Aug. 14, 1945.

### CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 487,850. MARKAY BAGS, New York, N. Y. Filed Aug. 31, 1945.

CONVERTINA

FOR HANDBAGS.

Claims use since Aug. 1, 1944.

### CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 480,559. BRISTOL-MYERS COMPANY, New York, N. Y. Filed Mar. 7, 1945. Under section 5b of the act of 1905 as amended in 1920.

INGRAM

FOR SHAVING CREAM.

Claims use since July 13, 1944.

Ser. No. 482,897. SOFNA PRODUCTS, INC., New York, N. Y. Filed May 2, 1945.

SOFNALENE

The word "Trademark" is disclaimed separate and apart from the mark as shown on the drawing.

FOR EMULSIFYING DETERGENT USEFUL AS A CLEANER FOR REMOVING GREASE, OIL, DIRT, OR FILINGS FROM IRON, STEEL, COPPER, BRASS, BRONZE, ALUMINUM AND THEIR ALLOYS, AND ALSO FROM CONCRETE, LINOLEUM, PLASTICS, OR TILE.

Claims use since Apr. 4, 1945.

Ser. No. 485,146. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed June 28, 1945.

YES SIR

FOR SHAVING CREAMS AND SOAPS.

Claims use since Dec. 27, 1943.

## CLASS 5

### ADHESIVES

Ser. No. 481,376. STEVEN MOCENY, doing business as Independent Foundry Supply Co., Los Angeles, Calif. Filed Mar. 27, 1945.

**PERMI-BOND**

The word "Bond" is disclaimed apart from the mark.
FOR CORE AND FACING BINDERS.
Claims use since June 1, 1938.

---

## CLASS 6

### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 472,873. PEARL LEESE, New York, N. Y. Filed Aug. 2, 1944.

**MINX**

FOR PERFUMES, PERFUME EXTRACTS, TOILET WATER, FACE POWDER, TALCUM POWDER, EAU DE COLOGNE, SACHET POWDER, CLEANSING CREAM, FACE LOTION, HAND LOTION, ROUGE, AND LIPSTICK.
Claims use since July 1, 1944.

---

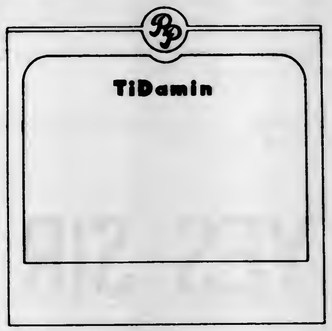
Ser. No. 481,385. HAKON STORJORD, Brooklyn, N. Y. Filed Mar. 27, 1945.

HASTO

FOR MEDICINE FOR COLDS, BY INTERNAL USE.
Claims use since Aug. 1, 1944.

---

Ser. No. 482,011. WILLIAM RADOFF, New York, N. Y. Filed Apr. 11, 1945.




FOR VITAMIN CAPSULES.
Claims use since Sept. 10, 1944.

Ser. No. 484,383. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed June 11, 1945.

**HAND SILK**

Applicant disclaims the word "Hand" apart from the mark.
FOR NAIL LACQUER FOR FINGER NAILS, NAIL POLISH, CREAMS FOR THE FACE AND HANDS, LOTION FOR THE FACE AND HANDS, AND FACE MAKE-UP IN LIQUID FORM.
Claims use since Apr. 23, 1945.

---

Ser. No. 484,385. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed June 11, 1945.

**LIQUID LADYFINGERS**

Applicant disclaims the word "Liquid" apart from the mark.
FOR HAND LOTIONS, CREAMS FOR THE HANDS AND FACE, FACE MAKE-UP IN LIQUID FORM, NAIL LACQUER FOR FINGER NAILS, AND NAIL POLISH.
Claims use since Apr. 23, 1945.

---

Ser. No. 484,433. WILLIAM B. WARD, doing business as William B. Ward Company, Kansas City, Mo. Filed June 11, 1945.

**RATGON**

FOR CULTURED EXTRACT FROM SKUNKS USED AS A SPRAY TO PRECLUDE INVASION OF RODENTS.
Claims use since Mar. 1, 1945.

---

Ser. No. 484,765. HARRY A. WALDMAN, doing business as The Rona Company and Rona Pharmacal Co., Philadelphia, Pa. Filed June 19, 1945.

*Ronazine*

FOR AMPHETAMINE SULFATE.
Claims use since January 1944.

---

Ser. No. 484,766. HARRY A. WALDMAN, doing business as The Rona Company and Rona Pharmacal Co., Philadelphia, Pa. Filed June 19, 1945.

*Ronadex*

FOR DEXTRO-AMPHETAMINE SULFATE.
Claims use since March 1945.



Ser. No. 485,198. CHARLES OF THE RITZ, INC., New York, N. Y. Filed June 29, 1945.

**BLUE LAGOON**

No claim is made to the word "Blue" apart from the mark.
FOR EYE SHADOW.
Claims use since January 1939.

---

Ser. No. 485,456. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 4, 1945.

**RAYCONOL**

FOR LIQUID SOFTENER AND LUBRICANT FOR CONING RAYON YARNS.
Claims use since Dec. 13, 1933.

---

Ser. No. 485,457. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 4, 1945.

**SANFOROL**

FOR LIQUID SURFACE ACTIVE COMPOSITION FOR PRESHRINKING OF TEXTILES.
Claims use since Apr. 20, 1942.

---

Ser. No. 485,459. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 4, 1945.

**SONOFIN**

FOR PASTE COMPOSITION FOR STIFFENING TEXTILE FABRICS.
Claims use since November 1918.

---

Ser. No. 485,461. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 4, 1945.

**SONOLENE**

FOR SURFACE ACTIVE LIQUID COMPOSITION USED IN DYEING OF TEXTILES AS A LEVELING AGENT.
Claims use since January 1917.

Ser. No. 485,728. HIRESTRA LABORATORIES, INC., New York, N. Y. Filed July 12, 1945.

*Endocreme*

Applicant is the owner of T. M. #344,878, registered Apr. 6, 1937.
FOR SKIN CREAM.
Claims use since May 15, 1937.

---

Ser. No. 485,993. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed July 19, 1945.

**CLAD**

FOR PROTECTIVE SKIN CREAMS.
Claims use since about May 20, 1944.

---

Ser. No. 486,236. ABBOTT LABORATORIES, North Chicago, Ill. Filed July 25, 1945.

**SURBEX**

FOR MULTIPLE VITAMIN PREPARATION.
Claims use since July 2, 1945.

---

## CLASS 8

### SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 470,372. ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed May 18, 1944.

ABSORBAL

FOR TOBACCO JARS.
Claims use since May 3, 1922.

---

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 485,203. ISRAEL DOSKIN, doing business as Acme Chemical Company, Pittsburgh, Pa. Filed June 28, 1945.

**AERO-MATIC**

FOR COMBINED DOOR CHECK AND DEODORANT DIFFUSER AND DEODORANT CARTRIDGE FOR USE THEREIN.
Claims use since Aug. 17, 1944.

Ser. No. 485,333. THE EDWARD VALVE & MANUFACTURING CO., INC., East Chicago, Ind. Filed July 2, 1945.

UNIVALVE

FOR VALVES AND PARTS OF VALVES—NAMELY, GLOBE STOP VALVES, ANGLE STOP VALVES, NON-RETURN VALVES, CHECK VALVES, BLOW-OFF VALVES, GATE VALVES, VALVES FOR CONTROLLING FLUID FLOW AT HIGH PRESSURES, VALVES FOR CONTROLLING FLUID FLOW AT HIGH TEMPERATURES, AND IN GENERAL, VALVES FOR CONTROLLING THE FLOW OF FLUIDS UNDER PRESSURE.
Claims use since June 5, 1945.

## CLASS 15

### OILS AND GREASES

Ser. No. 485,665. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed July 10, 1945.

RPM

FOR LUBRICATING OILS AND GREASES.
Claims use since June 12, 1945.

Ser. No. 486,951. INTERNATIONAL LUBRICANT CORPORATION, New Orleans, La. Filed Aug. 9, 1945.

INTERNATIONAL

Applicant is the owner of T. M. Reg. No. 361,743, registered Nov. 1, 1938.
FOR LUBRICATING OILS AND GREASES.
Claims use since Mar. 1, 1937.

Ser. No. 487,132. HUMBLE OIL & REFINING COMPANY, Houston, Tex. Filed Aug. 14, 1945.

BUR-BAN

FOR CUTTING OILS.
Claims use since June 26, 1945.

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 483,523. G. E. SPECIALTY CO., Brooklyn, N. Y. Filed May 18, 1945.

PLAST-O-WAX

No claim is made to the word "Wax" apart from the mark as shown.
FOR FLOOR WAX.
Claims use since March 1944.

Ser. No. 484,852. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Jan. 21, 1945.

SKYLAC

FOR SYNTHETIC RESIN COATING COMPOSITIONS IN THE NATURE OF LACQUERS AND ENAMELS FOR THE TREATMENT OF METAL AND WOOD SURFACES AND TEXTILES INCLUDING THE INTERIOR AND EXTERIOR SURFACES OF AIRCRAFT AND OTHER VEHICLES.
Claims use since May 11, 1945.

Ser. No. 485,488. ATLAS POWDER COMPANY, Wilmington, Del. Filed July 6, 1945.

AQUANITE

FOR LACQUERS AND STAINS.
Claims use since Feb. 1, 1923, on lacquers; and since Apr. 16, 1945, on stains.

## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 479,339. JULIO GONZALEZ Y GONZALEZ, Habana, Cuba. Filed Feb. 2, 1945.

LA ABEJA

FOR CIGARS.
Claims use since Dec. 14, 1944.



## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 486,048. LORAIN PRODUCTS CORPORATION, Lorain, Ohio. Filed July 20, 1945.

FLOTROL

FOR BATTERY CHARGERS.
Claims use since July 13, 1945.

Ser. No. 486,176. SUN VACUUM STORES, Los Angeles, Calif. Filed July 23, 1945.

AIR-CHIEF

FOR ELECTRIC VACUUM CLEANERS.
Claims use since April 1940.

Ser. No. 486,177. SUN VACUUM STORES, Los Angeles, Calif. Filed July 23, 1945.

SUPER CHIEF

FOR ELECTRIC VACUUM CLEANERS.
Claims use since February 1941.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 473,848. ELECTRIC BOAT COMPANY, Bayonne, N. J. Filed Sept. 22, 1944.

Takitezy

FOR WHEELED GOLF-BAG CARRIERS FOR USE ON GOLF COURSES.
Claims use since Aug. 4, 1944.

Ser. No. 487,026. ALUMINUM GOODS MFG. CO., Manitowoc, Wis. Filed Aug. 11, 1945.

MIRRO

FOR TOY COOKING AND BAKING UTENSILS, TOY TEA SETS, AND TOY SAND SETS.
Claims use since Sept. 1, 1917.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 467,709. AL-FIN CORPORATION, New York, N. Y. Filed Feb. 24, 1944.

AL FIN

The drawing is lined for shading only.
FOR BIMETALLIC ARTICLES—NAMELY, INTERNAL COMBUSTION ENGINE AND PUMP CYLINDERS, AND JOURNAL BEARINGS.
Claims use since about Feb. 3, 1944.

Ser. No. 472,981. RAYMOND A. LEACH, West Los Angeles, Calif. Filed Aug. 5, 1944.

CASHIERS JACK-POT

Applicant disclaims the word "Cashiers."
FOR DISPENSING MACHINE, AUTOMATICALLY OPERATED BY DEVICES USED TO REGISTER SALES OR ATTENDANCE, SUCH AS A CASH REGISTER, TURNSTILE, ETC. THE MACHINE WILL DISPENSE PREMIUMS AT A TIME WHEN A CERTAIN NUMBER OF OPERATIONS ARE PERFORMED ON THE DISPENSING MACHINE BY THE OPERATING DEVICES.
Claims use since May 29, 1944.

Ser. No. 481,691. BEAVER GEAR WORKS, INC., Rockford, Ill. Filed Apr. 4, 1945.



The representation of a shaft and worm is disclaimed apart from the mark as a whole.
FOR PRECISION GEARS—NAMELY, SPUR GEARS, HELICAL GEARS, WORM GEARS, BEVEL GEARS, WORMS, SPROCKETS, AND GEAR RACKS.
Claims use since July 31, 1944.

Ser. No. 482,158. J & S TOOL CO., East Orange, N. J. Filed Apr. 14, 1945.

"Fluidmotion"

FOR RADII AND ANGLE DRESSERS FOR THE SERVICING OF GRINDING WHEELS.
Claims use since Feb. 8, 1944.

Ser. No. 482,460. BLACKHAWK MFG. CO., Milwaukee, Wis. Filed Apr. 23, 1945.

"ADJUSTO"

FOR WRENCHES AND WRENCH SETS.
Claims use since March 1933.

Ser. No. 485,899. M. H. WINKLER, doing business as American Bamboo & Mfg. Co., Baton Rouge, La. Filed July 16, 1945.

P-17

FOR BAMBOO LAWN RAKES.
Claims use since Sept. 7, 1944.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 483,751. THE YALE & TOWNE MANUFACTURING COMPANY, Stamford, Conn. Filed May 24, 1945. Under section 5b of the act of 1905 as amended in 1920.

YALE

FOR WEIGHING SCALES.
Claims use since May 23, 1944.

Ser. No. 485,081. GRAFLEX, INC., Rochester, N. Y. Filed June 27, 1945.

TELIE-OPTAR

Applicant is the owner of Reg. No. 398,442.
FOR PHOTOGRAPHIC LENSES.
Claims use since Aug. 17, 1943.

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 474,537. HARRY & BEN FRACKMAN, New York, N. Y., and Miami Beach, Fla. Filed Sept. 23, 1944.

GEMS OF MEMORY

The word "Gems" is disclaimed apart from the mark as shown.
FOR FINGER RINGS, EARRINGS, BRACELETS( NOT INCLUDING WATCHES), BROOCH PINS, AND BAR PINS OF PRECIOUS METAL.
Claims use since July 5, 1944.

Ser. No. 474,538. HARRY & BEN FRACKMAN, New York, N. Y., and Miami Beach, Fla. Filed Sept. 23, 1944.

JEWELS OF JOY

The word "Jewels" is disclaimed apart from the mark as shown.
FOR FINGER RINGS, EARRINGS, BRACELETS (NOT INCLUDING WATCHES), BROOCH PINS, AND BAR PINS OF PRECIOUS METAL.
Claims use since July 5, 1944.

Ser. No. 474,539. HARRY & BEN FRACKMAN, New York, N. Y., and Miami Beach, Fla. Filed Sept. 23, 1944.

RINGS OF MEMORY

The word "Rings" is disclaimed apart from the mark as shown.
FOR FINGER RINGS, EARRINGS, BRACELETS (NOT INCLUDING WATCHES), BROOCH PINS, AND BAR PINS OF PRECIOUS METAL.
Claims use since July 5, 1944.

Ser. No. 475,428. INTERNATIONAL ASSOCIATION OF LIONS CLUBS, Chicago, Ill. Filed Oct. 18, 1944.

LIONS L

FOR EMBLEMS, LAPEL BUTTONS, CHARMS AND LAPEL PINS MADE OF PRECIOUS METAL AND INDICATIVE OF MEMBERSHIP IN THE INTERNATIONAL ASSOCIATION OF LIONS CLUBS.
Claims use since Oct. 18, 1944.



## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 485,741. HARRY A. WOODWORTH, doing business as Dew-Freeze Co., St. Louis, Mo. Filed July 12, 1945.

DEW-FREEZE

The word "Freeze" is disclaimed apart from the mark as shown.
FOR ELECTRICALLY OPERATED REFRIGERATORS FOR FROZEN FOODS.
Claims use since June 1, 1945.

Ser. No. 487,307. CARRIER CORPORATION, Syracuse, N. Y. Filed Aug. 20, 1945.

FROSTMASTER

FOR DOMESTIC REFRIGERATORS, FROZEN FOOD STORAGE UNITS, FOOD FREEZING UNITS, AND CABINETS THEREFOR.
Claims use since Aug. 17, 1945.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 482,735. DUNN & RICHOLT COMPANY, Tujunga, Calif. Filed Apr. 28, 1945.

Cher-Chair

Applicant disclaims any exclusive right to the word "Chair" apart from the mark as shown.
FOR CHILDREN'S TOILET CHAIRS.
Claims use since Apr. 7, 1945.

Ser. No. 484,494. NATIONAL STEEL CABINET COMPANY, Chicago, Ill. Filed June 13, 1945.

MIRR-O-NETTE

FOR BATHROOM MEDICINE CABINETS.
Claims use since May 25, 1945.

Ser. No. 484,495. NATIONAL STEEL CABINET COMPANY, Chicago, Ill. Filed June 13, 1945.

NATCCO

FOR BATHROOM MEDICINE CABINETS.
Claims use since May 1, 1941.

Ser. No. 486,280. MICHAEL RUSSELL STEIN, New York, N. Y. Filed July 25, 1945.

"STEINWELD"

FOR INFLATABLE OR PNEUMATIC PILLOWS AND MATTRESSES.
Claims use since June 1, 1945.

## CLASS 33

### GLASSWARE

Ser. No. 479,156. THATCHER MANUFACTURING COMPANY, Elmira, N. Y. Filed Jan. 29, 1945. Under 10-year proviso as to "Thatcher".

Thatcher T-SQUARE

Applicant disclaims the word "Square" apart from the mark.
FOR GLASS BOTTLES.
Claims use since June 20, 1944.

Ser. No. 483,015. ANCHOR HOCKING GLASS CORPORATION, Lancaster, Ohio. Filed May 5, 1945.

Anchorglass

FOR GLASS ARTICLES—NAMELY, JARS, BOTTLES, JUGS, GLASSES, CUPS, SAUCERS, PLATES, TRAYS, DISHES, AND COOKING UTENSILS.
Claims use since Mar. 15, 1945.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 487,876. THERMOID COMPANY, Trenton, N. J. Filed Aug. 31, 1945.

CUB

FOR ROTARY HOSE.
Claims use since August 1935.

Ser. No. 487,877. THERMOID COMPANY, Trenton, N. J. Filed Aug. 31, 1945.

POWERFLEX

FOR WIRE BRAID HYDRAULIC CONTROL AND INDUSTRIAL GREASE HOSE, AND ROTARY HOSE.
Claims use since April 1934.

## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 487,131. GROSSMAN MUSIC CO., Cleveland, Ohio. Filed Aug. 14, 1945.

TROPHY

FOR BRASS HORNS—NAMELY, TRUMPETS, CORNETS, TROMBONES, BARITONES, FRENCH HORNS, ALTOS, MELLOPHONES, SOUSAPHONES AND BUGLES; BAND INSTRUMENT SUPPLIES—NAMELY, MOUTHPIECES, MUTES, STANDS, AND DERBIES; REED INSTRUMENTS—NAMELY, CLARINETS, SAXOPHONES, OBOES, BASSOONS, AND ENGLISH HORNS; REED INSTRUMENT SUPPLIES—NAMELY, MOUTHPIECES, REEDS, STRAPS, STANDS AND KEY PADS; WIND INSTRUMENTS—NAMELY, FLUTES AND PICCOLOS; FRETTED INSTRUMENTS—NAMELY, GUITARS, MANDOLINS, MANDOLAS, UKULELES, TENOR BANJOS, FIVE-STRING BANJOS, BANJO MANDOLINS, BANJO UKULELES, TENOR GUITARS AND TIPLES; FRETTED INSTRUMENT SUPPLIES—NAMELY, BANJO HEADS, BANJO HEAD GUARDS, BANJO RESONATORS, BANJO BRIDGES, BANJO TAILPIECES, AND STRINGS; BOW PLAYED INSTRUMENTS—NAMELY, VIOLINS, VIOLAS, VIOLONCELLOS, AND BASS VIOLS; BOW PLAYED INSTRUMENT SUPPLIES—NAMELY, BOWS, BOW HAIR, STRINGS, AND BRIDGES; MARIMBAS, BATONS, ACCORDIONS, CONCERTINAS, FIFES, HARMONICAS, OCARINAS, PHONOGRAPHS, PHONOGRAPH RECORDS, PHONOGRAPH RECORD ALBUMS, RADIOS, AND BAND LYRAS.
Claims use since June 1, 1945.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 476,521. MAYFLOWER MANUFACTURING COMPANY, Mineral Wells, Tex. Filed Nov. 16, 1944.




FOR TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND FACIAL TISSUES.
Claims use since September 1933.

Ser. No. 476,697. PROTECTO PRODUCTS CO., INC., Pomona, Calif. Filed Nov. 20, 1944.

Komfo

FOR PAPER TOILET SEAT COVERS.
Claims use since Nov. 4, 1944.

Ser. No. 479,451. MARJORIE WESTHAFER, Downers Grove, Ill. Filed Feb. 5, 1945.

Personally Yours by Marj

FOR BOXES AND CONTAINERS FOR STATIONERY AND STUDIO LETTER HEAD.
Claims use since Sept. 1, 1943.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 471,644. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed June 24, 1944.

Susie

FOR TITLE FOR A CARTOON, SERIES OF CARTOONS, CARTOON STRIP, AND ILLUSTRATED FICTIONAL, POETIC, AND EDITORIAL FEATURE PUBLISHED AT INTERVALS.
Claims use since Nov. 1, 1940.

Ser. No. 473,881. DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, Calif. Filed Sept. 4, 1944.

Douglas AIRVIEW

Applicant disclaims the word "Douglas" apart from the mark shown.
FOR PERIODICALS PUBLISHED IN THE INTERESTS OF INDUSTRIAL AND PUBLIC RELATIONS.
Claims use since December 1940.



Ser. No. 480,768. EARL G. HADLEY, Pittsburgh, Pa. Filed Mar. 10, 1945.

Speech MASTER

Applicant disclaims exclusive use of the word "Speech" apart from the mark as shown.
FOR SPEECH FORMULA CHARTS.
Claims use since May 15, 1943.

Ser. No. 482,515. YANK LEGION NEWS, Portland, Oreg. Filed Apr. 23, 1945.

YANK ~~LEGION~~ NEWS

The exclusive use of the word "News" is disclaimed apart from the mark as shown.
FOR PERIODICAL, SPECIFICALLY A NEWSPAPER DEVOTED TO NEWS OF SPECIAL INTEREST TO VETERANS OF WORLD WAR II.
Claims use since Feb. 6, 1945.

Ser. No. 483,263. ANNETTE GRAEBNER, New York, N. Y. Filed May 12, 1945.




The word "Letters" is disclaimed apart from the mark as shown on the drawing.
FOR INSTRUCTIVE BULLETIN ON LETTER WRITING ISSUED FROM TIME TO TIME.
Claims use since Apr. 9, 1945.

Ser. No. 485,991. ABRAHAM I. FRIEDMAN, doing business as A. I. Friedman Company, New York, N. Y. Filed July 19, 1945.

friem's four pages

The words "four pages" are disclaimed apart from the mark as shown.
FOR PERIODICAL DEALING WITH ART MATERIALS, ART LITERATURE, AND MATTERS OF INTEREST TO ARTISTS.
Claims use since Feb. 7, 1939.

Ser. No. 487,737. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed Aug. 29, 1945.

ONE WORLD

FOR MAGAZINE ON INTERNATIONAL AFFAIRS PUBLISHED QUARTERLY.
Claims use since July 17, 1945.

## CLASS 39

### CLOTHING

Ser. No. 479,800. LADIE-LASSIE FROCK CO., New York, N. Y. Filed Feb. 14, 1945.




No claim is made to the words "A Ladie Lassie Product" apart from the mark as shown.
FOR WOMEN'S, MISSES', AND GIRLS' COTTON DRESSES.
Claims use since Sept. 27, 1944.

Ser. No. 480,163. SUE SCHIFF COHEN, doing business under the name of Sue-Sets, New York, N. Y. Filed Feb. 24, 1945.

Sue-Sets

The applicant disclaims any right to the descriptive word "Sets" apart from the mark as shown.
FOR APRONS FOR WOMEN AND GIRLS.
Claims use since May 1, 1944.

Ser. No. 481,971. THE WILLOFORM MANUFACTURING CO., New York, N. Y. Filed Apr. 10, 1945.

Tantaline

FOR GIRDLES, BRASSIÈRES, FOUNDATION GARMENTS, SLIPS, BANDEAUX, GARTER BELTS, CORSETS, PANTIES, NIGHTGOWNS, PAJAMAS, AND BLOUSES.
Claims use since Mar. 20, 1945.

Ser. No. 483,334. PARKER SHIRT COMPANY, New Britain, Conn. Filed May 14, 1945. Under 10-year proviso.

PARKER

FOR MEN'S, BOYS', AND WOMEN'S OUTER SHIRTS.
Claims use since 1847.

Ser. No. 484,077. BARCLAY HAT CO., Cleveland, Ohio. Filed June 2, 1945.

Heximatic

FOR MEN'S AND BOYS' HATS AND CAPS.
Claims use since Feb. 1, 1945.

Ser. No. 484,387. ATHLETIC SHOE COMPANY, Chicago, Ill. Filed June 11, 1945.

ATHCO

FOR SHOES MADE OF LEATHER, SYNTHETIC FABRIC, RUBBER, AND/OR COMBINATIONS OF THE SAME.
Claims use since September 1930.

Ser. No. 485,173. SPIEGEL, INC., Chicago, Ill. Filed June 28, 1945.

HUNTMASTER

FOR HUNTING COATS, HUNTING TROUSERS, HUNTING CAPS, AND JACKETS.
Claims use since September 1935.

Ser. No. 485,187. AMERICAN GIRL SHOE CO., Boston, Mass. Filed June 29, 1945.

HEDGE HOPPERS

FOR SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, FOR WOMEN, MISSES, AND CHILDREN.
Claims use since June 15, 1945.

Ser. No. 485,247. MATILDA SILVER, doing business as Sufix Manufacturing Co., Boston, Mass. Filed June 29, 1945.

Sufix

FOR LEATHER SLIPPERS FOR MEN, WOMEN, AND CHILDREN.
Claims use since July 1944.

Ser. No. 485,927. SEAGULL MANUFACTURING COMPANY, Philadelphia, Pa. Filed July 17, 1945.

SEAGULL

FOR MEN'S UNDERWEAR.
Claims use since June 1935.

## CLASS 42

## KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 483,949. ALBURTON COMPANY, INC., Boston, Mass. Filed May 30, 1945.

ALCO Fabrics

Applicant disclaims the right to the exclusive use of the word "Fabrics" apart from the mark.
FOR SHOE FABRICS OF WOOL, SILK, COTTON, LINEN, AND RAYON, SOLD IN THE FORM OF YARDAGE AND EXTENDED FOR USE IN MAKING UPPERS, LININGS, AND INTERLININGS FOR SHOES.
Claims use since August 1943.

Ser. No. 484,228. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

BRADLASTIK

FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 10, 1945.

Ser. No. 484,229. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

BRADRIA

FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.



Ser. No. 484,230. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

FAMOUS FINISHES

No claim is made to the exclusive use of the words "Famous Finishes" apart from the mark as shown.
FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

Ser. No. 484,231. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

FEATURED FABRICS IN FAMOUS FINISHES

No claim is made to the exclusive use of the words "Featured Fabrics in Famous Finishes" apart from the mark as shown.
FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

Ser. No. 484,232. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

FINEST IN FINISHING

No claim is made to the words "Finest in Finishing" apart from the mark as shown.
FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

Ser. No. 484,233. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

THE STANDARD FOR FINISH IN FABRICS

No claim is made to the words "The Standard for Finish in Fabrics" apart from the mark as shown.
FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

Ser. No. 484,234. BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945.

THE STANDARD FOR FINISH IN MEN'S WEAR LININGS

No claim is made to the words "The Standard for Finish in Men's Wear Linings" apart from the mark as shown.
FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

Ser. No. 485,366. PONEMAH MILLS, Taftville, Conn. Filed July 2, 1945.

SPOVEN

FOR RAYON FABRIC GOODS IN THE PIECE.
Claims use since May 15, 1945.

Ser. No. 485,367. PONEMAH MILLS, Taftville, Conn. Filed July 2, 1945.

THRU A RING

THE SIGN OF A FINE FABRIC.

The words "Fine Fabric" are disclaimed apart from the mark.
FOR RAYON FABRIC GOODS IN THE PIECE.
Claims use since May 18, 1945.

Ser. No. 487,580. J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Aug. 25, 1945.

EXPRESS

FOR DRAPERIES AND CURTAINS.
Claims use since Oct. 2, 1944.

Ser. No. 487,581. J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Aug. 25, 1945.

PANTEX

FOR DRAPERIES AND CURTAINS.
Claims use since Sept. 16, 1944.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 478,187. THE OHIO CHEMICAL & MFG. CO., Cleveland, Ohio. Filed Jan. 3, 1945.

**OPERAY SURG-O-RAY**

Applicant disclaims "Ray" apart from the mark.
FOR EXPLOSION-PROOF LIGHTING FIXTURES OF THE SINGLE-BEAM, MULTIBEAM, PORTABLE, AND SUSPENDED TYPES USED TO GIVE ILLUMINATION FOR SURGICAL OPERATIONS.
Claims use since December 1933.

Ser. No. 483,994. MARTIN STAUNT, doing business as Midwest Dental Mfg. Co., Chicago, Ill. Filed May 30, 1945.

CARBODENT

FOR DENTAL HANDPIECES.
Claims use since May 18, 1945.

Ser. No. 487,345. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Aug. 20, 1945.

**BONE-AIR**

FOR ELECTRICAL HEARING AIDS AND PARTS THEREOF.
Claims use since May 29, 1944.

Ser. No. 487,880. WALTER E. WULFF, doing business as W. E. Wulff Dental Mfg. Co., Chicago, Ill. Filed Aug. 31, 1945.




FOR DENTAL HANDPIECES AND ACCESSORIES THEREFOR.
Claims use since Apr. 17, 1945.

## CLASS 45

### BEVERAGES, NONALCOHOLIC

Ser. No. 485,900. HENRY W. BATTEIGER, doing business as Fount-Hope Mineral Water, Evansville, Ind. Filed July 17, 1945.

**FOUNT-HOPE**

FOR MINERAL WATER.
Claims use since May 1, 1945.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 474,423. THE CHARLES A. PETERSON COMPANY, Cleveland, Ohio. Filed Sept. 20, 1944.

**CAPCO**

FOR SHELLED EDIBLE NUTS, RAW OR SALTED.
Claims use since on or about Apr. 29, 1937.

Ser. No. 483,607. SHIBLI S. DAMUS, doing business as United Citrus Growers, Colton, Calif. Filed May 21, 1945.

**SHEIK**

FOR FRESH CITRUS FRUITS.
Claims use since May 3, 1922.

Ser. No. 484,432. EDITH A. VARNER, Wichita, Kans. Filed June 11, 1945.



*Mother Varner's*

The lining of the drawing is for shading only. The portrait is that of the applicant.
FOR CANNED FRUIT PRESERVES, SWEET RELISH, PICKLES, AND HORSERADISH.
Claims use since Oct. 15, 1937.



Ser. No. 485,378. T. O. TOMASELLO, Watsonville, Calif. Filed July 2, 1945




No claim is made to the word "Brand" apart from the mark as shown.
FOR FRESH VEGETABLES.
Claims use since May 31, 1945.

Ser. No. 485,494. 40-FATHOM FISH, INC., New York, N. Y. Filed July 6, 1945.




Applicant is the owner of United States trade-mark registration No. 202,461, registered Aug. 25, 1925, and of United States trade-mark registration No. 231,162, registered Aug. 16, 1926. Applicant disclaims the representation of the fish apart from the mark.
FOR FISH AND SHELLFISH PRODUCTS—NAMELY, FRESH FISH, CANNED FISH AND SHELLFISH, FROZEN FISH AND SHELLFISH, AND CANNED AND FROZEN FISH CAKES.
Claims use since 1939.

Ser. No. 486,308. KELLEY-CLARKE COMPANY, Seattle, Wash. Filed July 26, 1945.

ANTLER

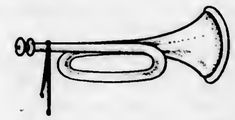
Applicant is the owner of Reg. No. 248,157.
FOR CANNED FISH.
Claims use since Apr. 1, 1902.

Ser. No. 486,312. KELLEY-CLARKE COMPANY, Seattle, Wash. Filed July 26, 1945.

BLUE JACKET

Applicant is the owner of Reg. No. 368,894.
FOR CANNED SALMON, CRAB, SHRIMP, OYSTERS, AND TUNA.
Claims use since Jan. 15, 1899.

Ser. No. 486,313. KELLEY-CLARKE COMPANY, Seattle, Wash. Filed July 26, 1945.



BUGLE

Applicant is the owner of Reg. No. 248,257.
FOR CANNED FISH.
Claims use since Apr. 1, 1904.

Ser. No. 486,779. JOHN F. JELKE COMPANY, Chicago, Ill. Filed Aug. 6, 1945.

Spring-bok

FOR OLEOMARGARINE.
Claims use since Nov. 25, 1914.

Ser. No. 486,791. JOHN F. JELKE COMPANY, Chicago, Ill. Filed Aug. 6, 1945.

*Glenola*

FOR OLEOMARGARINE.
Claims use since Jan. 1, 1906.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 13, 1945

417,679. SPARKLING WINES. VALDOME, INCORPORATED, Staten Island, N. Y.
Filed February 4, 1943, Serial No. 459,349. PUBLISHED AUGUST 28, 1945. Class 47.

417,680. NON-ALCOHOLIC CONCENTRATED LIQUID PRODUCT FOR USE IN MAKING MIXED DRINKS. RICKERFOR & SALADINO, doing business as Rickey-Sal All-in-One, New Orleans, La.
Filed March 6, 1943. Serial No. 458,952. PUBLISHED AUGUST 28, 1945. Class 49.

417,681. HYDRAULICALLY BONDED ASBESTOS HEAT INSULATING BLOCKS. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed July 21, 1943. Serial No. 462,212. PUBLISHED AUGUST 28, 1945. Class 12.

417,682. AUTOMOBILES. LELAND HOLZER, New York, N. Y.
Filed September 27, 1943. Serial No. 463,673. PUBLISHED AUGUST 28, 1945. Class 19.

417,683. RUM, GIN, WHISKY, ETHYL ALCOHOL, BRANDY, AND ANISETTE. COMPAÑIA CUBANA DE ALCOHOL, S. A., Santa Cruz del Norte and Habana, Cuba.
Filed March 20, 1944. Serial No. 468,438. PUBLISHED AUGUST 28, 1945. Class 49.

417,684. VEHICLE SEAT COVERS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed March 27, 1944. Serial No. 468,728. PUBLISHED SEPTEMBER 4, 1945. Class 19.

417,685. PLASTIC LININGS AND BRICK PARTS FOR ACID PROOF TANKS. NUKEM PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 1, 1944. Serial No. 468,928. PUBLISHED AUGUST 28, 1945. Class 12.

417,686. ROTARY FANS, EXHAUST BLOWERS, FORCED DRAFT BLOWERS, FURNACE BLOWERS, DUST COLLECTORS, AND CIRCULATING BLOWERS, ALL FOR VENTILATING AND AIR CONDITIONING. RAYMOND J. SCHEFFLER, doing business as Grand Rapids Die and Tool Company, Grand Rapids, Mich.
Filed April 3, 1944. Serial No. 468,973. PUBLISHED SEPTEMBER 4, 1945. Class 34.

417,687. PRINTED BOOKS, PAMPHLETS, CIRCULARS, AND NEWSPAPERS. UNITED RUBBER WORKERS OF AMERICA, Akron, Ohio.
Filed April 19, 1944. Serial No. 469,478. PUBLISHED AUGUST 28, 1945. Class 38.

417,688. SANITARY NAPKINS. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed April 22, 1944. Serial No. 469,567. PUBLISHED SEPTEMBER 4, 1945. Class 44.

417,689. REFRACTORY CEMENT. BOTFIELD REFRACTORIES COMPANY, Philadelphia, Pa.
Filed April 27, 1944. Serial No. 469,719. PUBLISHED AUGUST 28, 1945. Class 12.

417,690. REFRACTORY CEMENT AND FIREBRICK. BOTFIELD REFRACTORIES COMPANY, Philadelphia, Pa.
Filed April 27, 1944. Serial No. 469,720. PUBLISHED AUGUST 28, 1945. Class 12.

417,691. CURTAINS, TABLECLOTHS, TOWELS, BED SHEETS, PILLOW CASES, PERCALE PIECE GOODS, DRAPERY FABRICS, UPHOLSTERY FABRICS, BLANKETS, RUGS, AND CARPETS. ALLIED STORES CORPORATION, Wilmington, Del., doing business as "The Bon Marche", Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J., also doing business as Home Furnishings Institute.
Filed May 15, 1944. Serial No. 470,252. PUBLISHED SEPTEMBER 4, 1945. Class 42.

417,692. RUM, GIN, WHISKEY, ETHYL ALCOHOL, COGNAC, BRANDY, AND ANISETTE. COMPAÑIA CUBANA DE ALCOHOL, S. A., Santa Cruz del Norte and Habana, Cuba.
Filed May 22, 1944. Serial No. 470,489. PUBLISHED AUGUST 28, 1945. Class 49.

417,693. CANCELLING MACHINES, PERFORATING MACHINES, VALIDATING MACHINES AND ENDORSING AND CHECK SIGNING MACHINES. CUMMINS PERFORATOR, DIVISION OF A. S. C. CORPORATION, Chicago, Ill.
Filed June 15, 1944. Serial No. 471,249. PUBLISHED AUGUST 28, 1945. Class 23.

417,694. RUM, GIN, WHISKY, BRANDY, ETHYL ALCOHOL, COGNAC, AND ANISETTE. COMPAÑIA CUBANA DE ALCOHOL, S. A., Santa Cruz del Norte and Habana, Cuba.
Filed June 22, 1944. Serial No. 471,513. PUBLISHED AUGUST 28, 1945. Class 49.

417,695. RUM, GIN, WHISKY, BRANDY, ETHYL ALCOHOL, COGNAC, AND ANISETTE. COMPAÑIA CUBANA DE ALCOHOL, S. A., Santa Cruz del Norte and Habana, Cuba.
Filed June 22, 1944. Serial No. 471,514. PUBLISHED AUGUST 28, 1945. Class 49.

417,696. GAS AND OIL OPERATED AIR CONDITIONING AND HEATING UNITS. ESSICK MANUFACTURING COMPANY, Los Angeles, Calif.
Filed July 3, 1944. Serial No. 471,898. PUBLISHED AUGUST 28, 1945. Class 34.

417,697. GAME WHICH SIMULATES STOCK AND SHARE SELLING, INVOLVING THE USE OF A DECK OF ORDINARY PLAYING CARDS, BOARDS OR PLAYING SURFACES, ETC. THE CHAD VALLEY CO. LTD., Birmingham, England.
Filed July 13, 1944. Serial No. 472,179. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,698. COMIC STRIP. ANGLO-AMERICAN PUBLISHING COMPANY LIMITED, Toronto, Ontario, Canada.
Filed August 11, 1944. Serial No. 473,173. PUBLISHED AUGUST 28, 1945. Class 38.

417,699. INSTRUCTION SHEETS. J. A. SMITH COMPANY, St. Louis, Mo.
Filed September 4, 1944. Serial No. 473,898. PUBLISHED AUGUST 28, 1945. Class 38.

417,700. STOCKINGS AND SOCKS. D. BYFORD AND CO. LIMITED, Leicester, England.
Filed October 5, 1944. Serial No. 474,948. PUBLISHED AUGUST 28, 1945. Class 39.

417,701. RASP BANDS AND WHEELS FOR REMOVING RUBBER TIRE TREADS AND THE LIKE. ALTON E. TOBEY, Santa Cruz, Calif.
Filed October 5, 1944. Serial No. 474,969. PUBLISHED SEPTEMBER 4, 1945. Class 23.





417,702. DOMESTIC, COMMERCIAL, AND INDUSTRIAL ELECTRICAL LIGHTING FIXTURES, AND FLUORESCENT TUBES. FLUORESCENT CORPORATION OF AMERICA, Cleveland, Ohio.
Filed October 7, 1944. Serial No. 475,049. PUBLISHED AUGUST 28, 1945. Class 21.

417,703. PUBLICATION PUBLISHED APPROXIMATELY MONTHLY AND CONTAINING PICTURES AND FICTIONAL AND NONFICTIONAL ARTICLES OF ESPECIALLY INTEREST TO YOUNG PEOPLE. YOUNG LIFE CAMPAIGN, Dallas, Tex.
Filed October 16, 1944. Serial No. 475,881. PUBLISHED AUGUST 28, 1945. Class 38.

417,704. ADHESIVE CEMENT FOR BONDING CORK, LEATHER, LINOLEUM, METAL, PLASTICS, WALLBOARD, AND WOOD. HERBERT J. HERBERT, New York, N. Y.
Filed October 18, 1944. Serial No. 475,425. PUBLISHED SEPTEMBER 4, 1945. Class 5.

417,705. TWIST DRILLS, REAMERS, MILLING CUTTERS, COUNTERSINKS, AND COMBINATION DRILLS AND COUNTERSINKS. AMPCO TWIST DRILL COMPANY, Jackson, Mich.
Filed October 26, 1944. Serial No. 475,711. PUBLISHED SEPTEMBER 4, 1945. Class 23.

417,706. FLEXIBLE MOLDS FOR THE CASTING OF PLASTER, PLASTICS, METALS, AND THE LIKE. THE PERMA-FLEX MOLD CO., Columbus, Ohio.
Filed November 8, 1944. Serial No. 476,258. PUBLISHED SEPTEMBER 4, 1945. Class 23.

417,707. MECHANICS' APRONS. FANNIE SIEGLE, Seattle, Wash.
Filed November 16, 1944. Serial No. 476,529. PUBLISHED AUGUST 28, 1945. Class 39.

417,708. GAME HAVING A CHARACTERISTICALLY MARKED BASE MEMBER IN RELATION TO WHICH CARDS, SIMULATING HORSES, JOCKEYS, PENALTIES, AND INCIDENTS ASSOCIATED WITH HORSE RACES, ARE PLAYED ACCORDING TO INSTRUCTIONS SUPPLIED WITH THE GAME. PORTERPRINT LIMITED, Leeds, England
Filed November 27, 1944. Serial No. 476,926. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,709. BARBERS' ARMCHAIRS, BEDROOM SUITES, BEDSTEADS, CAMP STOOLS, CARD TABLES, CHAIRS, AND TABLES FOR GENERAL USE, ETC. THONET BROTHERS, INC., New York, N. Y.
Filed December 21, 1944. Serial No. 477,824. PUBLISHED SEPTEMBER 4, 1945. Class 32.

417,710. BARBERS' ARMCHAIRS, BEDROOM SUITES, BEDSTEADS, CAMP STOOLS, CARD TABLES, CHAIRS AND TABLES FOR GENERAL USE, ETC. THONET BROTHERS, INC., New York, N. Y.
Filed December 21, 1944. Serial No. 477,826. PUBLISHED SEPTEMBER 4, 1945. Class 32.

417,711. INDUCTIVE AND DIELECTRIC HEATING APPARATUS IN WHICH CURRENT FOR HARDENING, ANNEALING, BRAZING, HEATING FOR FORGING, MELTING AND DRYING ARTICLES AND PARTS OF ARTICLES IS DERIVED FROM ELECTRONIC TUBES, THE TUBES COMPRISING A PART OF THE APPARATUS. THE OHIO CRANKSHAFT COMPANY, Cleveland, Ohio.
Filed December 28, 1944. Serial No. 478,014. PUBLISHED AUGUST 28, 1945. Class 21.

417,712. MAGAZINE PUBLISHED PERIODICALLY. HARRY "A" CHESLER, doing business as Harry "A" Chesler Features Syndicate, New York, N. Y.
Filed January 12, 1945. Serial No. 478,539. PUBLISHED AUGUST 28, 1945. Class 38.

417,713. COATS FOR WOMEN AND GIRLS. FRANKLIN SIMON & CO., INC., New York, N. Y.
Filed February 5, 1945. Serial No. 479,447. PUBLISHED AUGUST 28, 1945. Class 39.

417,714. SANDING DRUMS FOR SANDING MACHINES. EXACTONE TOOL AND DIE COMPANY, Los Angeles, Calif.
Filed February 7, 1945. Serial No. 479,510. PUBLISHED AUGUST 28, 1945. Class 23.

417,715. SPECIALLY PREPARED RESIN FOR USE IN SOIL TO RENDER SOIL NON-ABSORBENT OF MOISTURE AND INCAPABLE OF TURNING INTO MUD. HERCULES POWDER COMPANY, Wilmington, Del.
Filed February 9, 1945. Serial No. 479,623. PUBLISHED SEPTEMBER 4, 1945. Class 12.

417,716. NECKTIES. CLUETT, PEABODY & CO., INC., Troy, N. Y.
Filed February 14, 1945. Serial No. 479,778. PUBLISHED JUNE 26, 1945. Class 39.

417,717. SUITS FOR MEN AND YOUNG MEN, MEN'S AND YOUNG MEN'S SPORT CLOTHES—NAMELY, SPORT JACKETS, SLACKS, AND SUITS. ABRAHAM M. SANDERS, doing business as Al Sanders Co., New N. Y.
Filed February 17, 1945. Serial No. 479,953. PUBLISHED AUGUST 28, 1945. Class 39.

417,718. MARINE CRAFT—NAMELY, MOTOR BOATS. WESTERN BOAT BUILDING CO., Tacoma, Wash.
Filed February 17, 1945. Serial No. 479,960. PUBLISHED SEPTEMBER 4, 1945. Class 19.

417,719. HERNIA TRUSSES. VINCENZO SCATTONE, New York, N. Y.
Filed March 1, 1945. Serial No. 480,390. PUBLISHED SEPTEMBER 4, 1945. Class 44.

417,720. HAND BAGS, PURSES, COIN PURSES, TWOFOLD PURSES OR HIP BOOKS, THREE-FOLD PURSES, MUSIC ROLLS, MUSIC SATCHELS, AND MUSIC FOLIOS. MCCOY, JONES & COMPANY, INC., Chicago, Ill.
Filed March 3, 1945. Serial No. 480,466. PUBLISHED SEPTEMBER 4, 1945. Class 3.

417,721. DOLLS. MILLS & EASLEY, New York, N. Y.
Filed March 3, 1945. Serial No. 480,467. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,722. RUBBER VIBRATION MOUNTS FOR MACHINERY AND EQUIPMENT. HAMILTON KENT MANUFACTURING COMPANY, Kent, Ohio.
Filed March 7, 1945. Serial No. 480,581. PUBLISHED SEPTEMBER 4, 1945. Class 23.

417,723. ELECTRIC INSULATING COMPOUND FOR WATERPROOFING IGNITION SYSTEMS. SURE-RITE PRODUCTS COMPANY, Philadelphia, Pa.
Filed March 7, 1945. Serial No. 480,630. PUBLISHED SEPTEMBER 4, 1945. Class 21.

417,724. MONTHLY GENERAL PUBLICATION COVERING FASHIONS, BEAUTY, CAREER INFORMATION, AND OTHER SUBJECTS. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y.
Filed March 27, 1945. Serial No. 481,361. PUBLISHED AUGUST 28, 1945. Class 38.

417,725. GAS, OIL, COAL, AND WOOD BURNING STOVES AND RANGES; OVENS FOR USE WITH SUCH STOVES AND RANGES; ETC. MOFFATS LIMITED, Weston, Ontario, Canada.
Filed March 28, 1945. Serial No. 481,418. PUBLISHED SEPTEMBER 4, 1945. Class 34.

417,726. PERIODICAL TO BE PUBLISHED ANNUALLY. INDUSTRIAL UNION OF MARINE AND SHIPBUILDING WORKERS OF AMERICA, also doing business as The Industrial Union of Marine and Shipbuilding Workers of America, CIO, Camden, N. J.
Filed April 2, 1945. Serial No. 481,631. PUBLISHED AUGUST 28, 1945. Class 38.

417,727. DOLL MILLINERY KITS. FEDERATED FASHIONS, INC., New York, N. Y.
Filed April 5, 1945. Serial No. 481,739. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,728. FOLDING PICTURE PUZZLES. STROMBECK PARSS INC., Moline, Ill.
Filed April 6, 1945. Serial No. 481,807. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,729. JOINTINGS AND PACKINGS FOR ENGINES MADE UP OF SPIRIT WITH GUM RESIN AND SHELLAC WITH HIGH TEMPERATURE PROPERTIES TO WITHSTAND HEAT AND PRESSURE. KENILWORTH MANUFACTURING COMPANY LIMITED, London, England.
Filed April 9, 1945. Serial No. 481,897. PUBLISHED SEPTEMBER 4, 1945. Class 12.

417,730. SEALED ELECTRICAL TRANSFORMER CASES. ARNOT P. FOSTER, doing business as A. P. Foster Co., Lockland, Ohio.
Filed April 16, 1945. Serial No. 482,200. PUBLISHED AUGUST 28, 1945. Class 21.

417,731. MARINE AND STATIONARY DIESEL ENGINES AND PROCESS MACHINERY—NAMELY, CONTINUOUS SCREW PRESS MACHINES FOR MOISTURE EXTRACTION FROM BEER MASH, ETC. ENTERPRISE ENGINE & FOUNDRY CO., San Francisco, Calif.
Filed April 18, 1945. Serial No. 482,275. PUBLISHED AUGUST 28, 1945. Class 23.

417,732. FURNACE STOKERS AND PARTS THEREOF PECULIAR TO FURNACE STOKERS. AMERICAN ENGINEERING COMPANY, Philadelphia, Pa.
Filed April 19, 1945. Serial No. 482,307. PUBLISHED SEPTEMBER 4, 1945. Class 34.

417,733. PLYWOOD. DOUGLAS FIR PLYWOOD ASSOCIATION, Tacoma, Wash.
Filed April 19, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 482,312. PUBLISHED SEPTEMBER 4, 1945. Class 12.

417,734. PLYWOOD. DOUGLAS FIR PLYWOOD ASSOCIATION, Tacoma, Wash.
Filed April 19, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 482,315. PUBLISHED SEPTEMBER 4, 1945. Class 12.

417,735. WASTE BASKETS, CANISTER SETS, BREAD BOXES, TRAYS, AND COASTERS, FORMED OF METAL, WOOD, OR COMBINATIONS OF METAL AND PAPER. HARVELL MANUFACTURING CORPORATION, South Bend, Ind.
Filed April 20, 1945. Serial No. 482,378. PUBLISHED SEPTEMBER 4, 1945. Class 2.

417,736. SISAL PADDING USED IN MATTRESSES AND UPHOLSTERED FURNITURE. S. HORVITZ & SONS, Pawtucket, R. I.
Filed April 20, 1945. Serial No. 482,379. PUBLISHED SEPTEMBER 4, 1945. Class 32.

417,737. ELECTRICAL OVENS. THE W. L. MAXSON CORPORATION, New York, N. Y.
Filed April 27, 1945. Serial No. 482,688. PUBLISHED AUGUST 28, 1945. Class 21.

417,738. WOMEN'S AND GIRLS' PLAYSUITS, SHORTS, SKIRTS, BLOUSES, JUMPERS, AND DRESSES. CAREFREE WEAR COMPANY, St. Louis, Mo.
Filed April 28, 1945. Serial No. 482,729. PUBLISHED AUGUST 28, 1945. Class 39.

417,739. FEATURED COLUMN APPEARING IN ITS MONTHLY MAGAZINE "THE ARCHITECTURAL FORUM". TIME, INCORPORATED, New York, N. Y.
Filed May 8, 1945. Serial No. 483,123. PUBLISHED AUGUST 21, 1945. Class 38.

417,740. GAMES—NAMELY, CHECKERS, CHESS, PUZZLE GAMES, DOMINOES, AND BACKGAMMON. MORRIS STEINBERG, doing business as Morris-Systems Co., New York, N. Y.
Filed May 12, 1945. Serial No. 483,289. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,741. PUBLICATION—A MAGAZINE WHICH IS ISSUED MONTHLY AND CONTAINS SHORT ARTICLES, JOKES, AND HUMOROUS STORIES, ALL DESIGNED TO HIGHLIGHT THE CHEERFUL SIDE OF LIVING. NATIONAL OFFICE SUPPLY COMPANY, Waukegan, Ill.
Filed May 14, 1945. Serial No. 483,333. PUBLISHED AUGUST 28, 1945. Class 38.

417,742. PIECE GOODS OF COTTON AND RAYON, AND MIXTURES OF COTTON AND RAYON. HERBERT MANUFACTURING COMPANY, New York, N. Y.
Filed May 16, 1945. Serial No. 483,427. PUBLISHED AUGUST 28, 1945. Class 42.

417,743. PRINTED PUBLICATION IN THE NATURE OF A HOUSE ORGAN PUBLISHED FROM TIME TO TIME. KEYES FIBRE COMPANY, Waterville, Maine.
Filed May 16, 1945. Serial No. 483,431. PUBLISHED AUGUST 28, 1945. Class 38.

417,744. PIECE GOODS OF COTTON AND RAYON, AND MIXTURES OF COTTON AND RAYON. HERBERT MANUFACTURING COMPANY, New York, N. Y.
Filed May 16, 1945. Serial No. 483,428. PUBLISHED AUGUST 28, 1945. Class 42.

417,745. PIECE GOODS OF RAYON, COTTON, OR WOOL, OR MIXTURES THEREOF. S. T. PALAY TEXTILE CORPORATION, New York, N. Y.
Filed May 16, 1945. Serial No. 483,444. PUBLISHED AUGUST 28, 1945. Class 42.

417,746. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MANDELBAUM COATS, New York, N. Y.
Filed May 19, 1945. Serial No. 483,577. PUBLISHED AUGUST 28, 1945. Class 39.

417,747. FLOAT CONTROLLED MERCURY SWITCHES. KESKO PRODUCTS CO., Bristol, Ind.
Filed May 25, 1945. Serial No. 483,773. PUBLISHED AUGUST 28, 1945. Class 21.

417,748. JUVENILE AND BOYS' OUTER SHIRTS AND SUNSUITS. DANIEL GOLD COMPANY, New York, N. Y.
Filed May 26, 1945. Serial No. 483,819. PUBLISHED AUGUST 28, 1945. Class 39.

417,749. SAW BLADES AND TWEEZERS. INTERATLANTIC TRADING CORP., New York, N. Y.
Filed May 26, 1945. Serial No. 483,823. PUBLISHED AUGUST 28, 1945. Class 23.

417,750. WIRE, ROD, AND STRIP FORMED OF NONFERROUS METALLIC ALLOYS FOR ELECTRICAL PURPOSES. WILBUR B. DRIVER COMPANY, Newark, N. J.
Filed June 1, 1945. Serial No. 484,047 PUBLISHED AUGUST 28, 1945. Class 21.

417,751. SYRUPS, EXTRACTS, AND FLAVORING COMPOUNDS FOR MAKING NON-ALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES. FRIES & FRIES, INC., Cincinnati, Ohio.
Filed June 11, 1945. Serial No. 484,397. PUBLISHED AUGUST 28, 1945. Class 45.

417,752. GOLF BAGS. H. D. GIBSON, INC., Trenton, N. J.
Filed June 12, 1945. Serial No. 484,451. PUBLISHED SEPTEMBER 4, 1945. Class 22.

417,753. BURLAP, COTTON AND PAPER BAGS, AND PAPER AND CORRUGATED CARTONS. IRVEN E. LINSCOMB, doing business as Pioneer Bag Company, North Kansas City, Mo.
Filed June 14, 1945. Serial No. 484,535. PUBLISHED SEPTEMBER 4, 1945. Class 2.

417,754. TOYS COMPRISING A PLURALITY OF ELEMENTS WHICH MAY BE OPTIONALLY ASSEMBLED TO FORM DIFFERENT OBJECTS. WOODITOY COMPANY, Los Angeles, Calif.
Filed June 14, 1945. Serial No. 484,549. PUBLISHED SEPTEMBER 4, 1945. Class 22.



417,755. PAPERBOARD BOXES AND CARTONS. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio.
Filed June 19, 1945. Serial No. 484,743. PUBLISHED SEPTEMBER 4, 1945. Class 2.

417,756. LADIES' HANDBAGS. PICHEL INC., New York, N. Y.
Filed June 20, 1945. Serial No. 484,796. PUBLISHED SEPTEMBER 4, 1945. Class 3.

417,757. CORRUGATED BOXES, WOODEN CRATES AND BOXES, AND COMBINATION OF WOOD AND FIBREBOARD CRATES AND BOXES. GENERAL BOX COMPANY, Chicago, Ill.
Filed June 21, 1945. Serial No. 484,836. PUBLISHED SEPTEMBER 4, 1945. Class 2.

417,758. HEAT AND SOUND INSULATION MATERIALS MADE ENTIRELY OR PARTLY OF ROCK WOOL. AMERICAN ROCK WOOL CORP., Wabash, Ind.
Filed June 27, 1945. Serial No. 485,069. PUBLISHED SEPTEMBER 4, 1945. Class 12.

417,759. APRICOT FLAVORED BRANDY. BARDINET, LTD., New York, N. Y.
Filed June 30, 1945. Serial No. 485,258. PUBLISHED AUGUST 28, 1945. Class 49.

417,760. CHERRY FLAVORED BRANDY. BARDINET, LTD., New York, N. Y.
Filed June 30, 1945. Serial No. 485,260. PUBLISHED AUGUST 28, 1945. Class 49.

417,761. PEACH FLAVORED BRANDY. BARDINET, LTD., New York, N. Y.
Filed June 30, 1945. Serial No. 485,261. PUBLISHED AUGUST 28, 1945. Class 49.

417,762. WIRE ROPE OR CABLE. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,283. PUBLISHED SEPTEMBER 4, 1945. Class 7.

417,763. FLEXIBLE METAL HOSE. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,296. PUBLISHED SEPTEMBER 4, 1945. Class 35.

417,764. MATTRESSES. NEW YORK MATTRESS COMPANY, Boston, Mass.
Filed June 30, 1945. Serial No. 485,301. PUBLISHED SEPTEMBER 4, 1945. Class 32.

417,765. MATTRESSES. NEW YORK MATTRESS COMPANY, Boston, Mass.
Filed June 30, 1945. Serial No. 485,302. PUBLISHED SEPTEMBER 4, 1945. Class 32.

417,766. DOLLS. ALICE L. CLARK, Mill Valley, Calif.
Filed July 3, 1945. Serial No. 485,400 PUBLISHED SEPTEMBER 4, 1945. Class 22.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

417,767. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JELLUM, INC., Joliet, Ill. Filed Sept. 7, 1942. Serial No. 455,394.

**GOLDEN RICH**

FOR GRAVY MIX.
Claims use since Aug. 25, 1942.

417,768. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) BOUCHER CORK CO., INC., Pisgah Forest, N. C. Filed June 22, 1943. Serial No. 461,585.

**BOUCHER**

FOR CIGARETTE TIPPING MATERIAL MADE OF CORK, PAPER, PRINTED PAPER, OR OTHER SUITABLE SHEET MATERIAL FOR APPLYING AS STRIPS TO CIGARETTE PAPER WHICH SERVES AS THE CONTAINER OF THE TOBACCO FILLER FOR CIGARETTES.
Claims use since 1908.

417,769. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ADAM J. MILLER, doing business as Cadet Creme Company, Worcester, Mass. Filed Sept. 10, 1943. Serial No. 463,325.

**SKIN-KOTE CLEANSER**

FOR SOAP AND HAND CLEANING ABRASIVE PREPARATIONS.
Claims use since March 1943.

417,770. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE RUKO COMPANY, New York, N. Y. Filed June 5, 1944. Serial No. 470,927.




FOR CAMERA CASES.
Claims use since Jan. 10, 1944.

417,771. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) "AUTOMATIC" SPRINKLER COMPANY OF AMERICA, Youngstown, Ohio. Filed June 29, 1944. Serial No. 471,780.

**HIGH SPEED**

FOR DELUGE SPRINKLER UNITS, PIPING, VALVES AND SPRINKLERS THEREFOR.
Claims use since Jan. 15, 1943.

417,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANS FLEISCHER, New York, N. Y., doing business as Hasley Products, Ozone Park, N. Y. Filed July 29, 1944. Serial No. 472,741.

HASLEY

FOR LAXATIVE HERB TEA.
Claims use since July 8, 1944.

417,773. (CLASS 39. CLOTHING.) ROSEDALE KNITTING COMPANY, Laureldale, Pa. Filed August 24, 1944. Serial No. 473,583.

MITRE HEEL

FOR HOSIERY.
Claims use since Aug. 2, 1944.

417,774. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LYNCH CORPORATION, Providence, R. I. Filed Sept. 12, 1944. Serial No. 474,126.

LYTE•CRAFT

FOR TOY EDUCATIONAL SETS OF CHEMICALS, LIGHT BULBS, AND OTHER LUMINESCENT MATERIALS.
Claims use since Aug. 25, 1944.

417,775. (CLASS 39. CLOTHING.) MYLISH, MANN & DRUCKER, Philadelphia, Pa. Filed Sept. 15, 1944. Serial No. 474,243.

REALFIT

FOR SHIRTS AND SHIRT COLLARS.
Claims use since Aug. 31, 1944.

417,776. (CLASS 39. CLOTHING.) LONGWOOD MANUFACTURING CO., Boston, Mass. Filed Sept. 18, 1944. Serial No. 474,340.

Justitch

FOR CUT-OUT CHILDREN'S DRESSES.
Claims use since Aug. 6, 1944.

417,777. (CLASS 39. CLOTHING.) JOEL ISAACS SHIRT CO., New York, N. Y. Filed Sept. 27, 1944. Serial No. 474,666.

Breslin

FOR OUTER SHIRTS.
Claims use since Sept. 2, 1944.

417,778. CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMART MAID COAT CO., INC., New York, N. Y. Filed Oct. 9, 1944. Serial No. 475,140.




FOR WOOLEN MATERIALS SOLD IN THE PIECE AND IN CUT OUT LENGTHS FOR USE IN THE MANUFACTURE OF GIRLS' COATS.
Claims use since August 1943.

417,779. (CLASS 39. CLOTHING.) J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Oct. 10, 1944. Serial No. 475,170.

INFALLIBLE

FOR MEN'S, WOMEN'S AND CHILDREN'S SLACKS, RIDING BREECHES, PAJAMAS, UNDERWEAR AND SHORTS; WOMEN'S AND GIRLS' BLOUSES AND DRESSES; AND MEN'S AND BOYS' GOLF TROUSERS, PANTS, OVERALLS, VESTS, JACKETS, DRESS AND NEGLIGEE SHIRTS, AND CAPS.
Claims use since Sept. 16, 1944.

417,780. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUSE OF LONTAY, INC., New York, N. Y. Filed Oct. 14, 1944. Serial No. 475,331.

Fascurl

FOR HAIR WAVING FLUID.
Claims use since Aug. 31, 1944.



417,781. (CLASS 37. PAPER AND STATIONERY.) JOSEPH M. KATZ, Pittsburgh, Pa. Filed Oct. 21, 1944. Serial No. 475,576.



FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.

417,782. (CLASS 39. CLOTHING.) THE CADOUX CO., New York, N. Y. Filed Nov. 6, 1944. Serial No. 476,136.

Fluid Form

FOR LADIES' CLOTHING—NAMELY, SLACKS, SKIRTS, SHORTS, DRESSES, BATHING SUITS, HALF-SLACKS, PANTIES, AND PAJAMAS.
Claims use since Aug. 31, 1944.

417,783. (CLASS 39. CLOTHING.) MAISON FRANCE, INC., New York, N. Y., assignor to Maison France, New York, N. Y., a firm composed of Seymour Levine and George Richardson. Filed Nov. 25, 1944. Serial No. 476,874.

Originals by Maison France

FOR LADIES' BLOUSES, DICKEYS, COLLARS, CUFFS, AND JABOTS.
Claims use since 1924.

417,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SKIPPER'S REMEDIES, Portland, Oreg. Filed Dec. 11, 1944. Serial No. 477,415.



SKIPPER'S

FOR SARCOPTIC MANGE MEDICINE FOR DOGS, FLEA POWDER, MEDICATED SHAMPOO, ECZEMA MEDICINE AND WORM CAPSULES.
Claims use since Sept. 1, 1944.

417,785. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) PFISTER & VOGEL TANNING CO., Milwaukee, Wis. Filed Dec. 15, 1944. Serial No. 477,617.

PLAYSHU SIDES

FOR LEATHER.
Claims use since Oct. 1, 1944.

417,786. (CLASS 39. CLOTHING.) SACO-MOC SHOE CORPORATION, Portland, Maine. Filed Dec. 21, 1944. Serial No. 477,817.

HUG-MOC

FOR MOCCASINS.
Claims use since February 4, 1942.

417,787. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS WALHIMER, doing business under the names "M. Walhimer" and "Radcliff," New Haven, Conn., and New York, N. Y. Filed Jan. 15, 1945. Serial No. 478,672.

Radcliff

FOR PERFUME, EAU DE COLOGNE, FACE POWDER, NAIL POLISH, ROUGE, LIPSTICK, BATH SALTS, CLEANSING CREAM AND TALCUM POWDER.
Claims use since Oct. 4, 1943.

417,788. (CLASS 39. CLOTHING.) FRED PERLBERG INC., New York, N. Y. Filed Jan. 22, 1945. Serial No. 478,897.




FOR MISSES' AND JUNIORS' DRESSES.
Claims use since December 1943.

417,789. (CLASS 39. CLOTHING.) LAPINER FUR COMPANY, New York, N. Y. Filed Jan. 31, 1945. Serial No. 479,242.

GENUINE
Lamskin-Mouton

FOR FUR COATS.
Claims use since Aug. 15, 1944.

417,790. (CLASS 39. CLOTHING.) YOUNG ORIGINALS, New York, N. Y. Filed Feb. 7, 1945. Serial No. 479,545.

PRE-JUNIOR

FOR MISSES', JUNIOR MISSES' AND GIRLS' DRESSES, SLACKS, OUTER SHORTS, BATHING SUITS, BLOUSES, PLAYSUITS, BEACH ROBES, COATS, SUITS, OUTER SHIRTS, PINAFORES, WAISTCOATS, HATS AND OUTER SKIRTS.
Claims use since January 1944.

417,791. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACK LEESE, New York, N. Y. Filed Feb. 14, 1945. Serial No. 479,801



HADDON HALL

FOR AFTER SHAVING LOTIONS, SKIN LOTIONS, DEODORANTS, WITCH HAZEL, BAY RUM, HAIR ELIXIRS, HAIR TONICS, BATH SALTS, SMELLING SALTS, MOUTH WASHES, DENTIFRICES, TOOTH PASTES, PERFUMES, TOILET WATERS.
Claims use since 1872.

417,792. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) CORNHALL & MALAMUT, New York, N. Y. Filed Feb. 17, 1945. Serial No. 479,922.

GLOS TWILL

FOR PIECE GOODS OF COTTON, RAYON, AND OF MIXTURES OF COTTON AND RAYON.
Claims use since June 30, 1944.

417,793. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NASH & KINSELLA LABORATORIES, INC., St. Louis, Mo. Filed Feb. 24, 1945. Serial No. 480,182.

BUGZOFF

FOR SPRAY-TYPE LIQUID INSECTICIDE.
Claims use since Aug. 15, 1944.

417,794. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Mar. 8, 1945. Serial No. 480,661.

lustersuds

FOR SOAP FOR WASHING SILKS, WOOLS, RAYONS AND OTHER FINE FABRICS.
Claims use since July 1, 1940.

417,795. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Mar. 8, 1945. Serial No. 480,666.

COLORSUDS

FOR SOAP, USED FOR LAUNDRY PURPOSES.
Claims use since August 1933.

417,796. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE BOYD BARHAM, Tulsa, Okla. Filed Mar. 20, 1945. Serial No. 481,094.




The drawing is lined for the colors red and green.
FOR STOMACH MEDICINES.
Claims use since Sept. 1, 1944.

417,797. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAC-O-LAC PAINT & VARNISH WORKS, Detroit, Mich. Filed Mar. 26, 1945. Serial No. 481,330.

FADELESS
*REALWHITE*

FOR READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, AND THE LIKE.
Claims use since 1940.

417,798. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ASCO CAR CLEANER COMPANY, Norfolk, Va. Filed Apr. 7, 1945. Serial No. 481,829.



The lining appearing on the drawing represents shading.
FOR SPECIALLY COMPOUNDED CLEANING PREPARATION FOR EXTERIOR STAINLESS STEEL AND PAINTED SURFACES OF RAILROAD PASSENGER CARS ONLY.
Claims use since September 1944.



417,799. (CLASS 39. CLOTHING.) MARIE SCHAEFER, New York, N. Y. Filed Apr. 10, 1945. Serial No. 481,961.

COSMETICAP

FOR HOODS FOR USE IN PROTECTING THE FACIAL MAKE-UP AND THE COIFFURE.
Claims use since September 1941.

417,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STUDIO COSMETIC COMPANY, Los Angeles, Calif. Filed Apr. 25, 1945. Serial No. 482,596.

*Early Californian*

FOR COLOGNE AND BUBBLE BATH CRYSTALS.
Claims use since Oct. 21, 1939.

417,801. (CLASS 39. CLOTHING.) SPIEGEL, INC., Chicago, Ill. Filed Apr. 27, 1945. Serial No. 482,711.

EVER KNIT

FOR MEN'S HOSIERY.
Claims use since September 1932.

417,802. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ELLIS J. HOFFORD, doing business as Hofford Paint & Varnish Co., Carlstadt, N. J. Filed Apr. 28, 1945. Serial No. 482,746

HOFFORD'S
DURA PLASTIC

FOR SHELLAC-LIKE COATING MATERIAL FOR FLOORS AND WOODWORK.
Claims use since September 1944.

417,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POLK PACKING ASSOCIATION, Winter Haven, Fla. Filed May 3, 1945. Serial No. 482,948.

BONA FIDE

Applicant is the owner of Reg. No. 332,461.
FOR CITRUS PRODUCTS—NAMELY, FRESH CITRUS FRUITS, CANNED CITRUS FRUITS AND CANNED CITRUS JUICES FOR FOOD PURPOSES.
Claims use since Oct. 31, 1934.

417,804. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAAS & WALDSTEIN COMPANY, Newark, N. J. Filed May 14, 1945. Serial No. 483,329.

FUNGI SHIELD

FOR COATING COMPOSITIONS—NAMELY, FUNGUS RESISTANT WAX CONCENTRATE, APPLICABLE FOR SURFACE TREATMENT OF VARIOUS MATERIALS TO RESIST GROWTH OF FUNGUS.
Claims use since Mar. 15, 1944.

417,805. (CLASS 39. CLOTHING.) NUNN-BUSH SHOE COMPANY, Milwaukee, Wis. Filed May 16, 1945. Serial No. 483,441.

Nunn·Bush
*Ankle fashioned*

FOR MEN'S AND BOYS' SHOES, OXFORDS, SLIPPERS, MOCCASINS AND BOOTS, MADE OF LEATHER, FABRIC, RUBBER, PLASTICS, AND COMBINATIONS THEREOF.
Claims use since Mar. 1, 1923.

417,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRUNSWIG DRUG COMPANY, Los Angeles, Calif. Filed May 22, 1945. Serial No. 483,647.

ANTI-ROACH

FOR ROACH POWDER.
Claims use since February 1937.

417,807. (CLASS 39. CLOTHING.) W. R. WOODARD CO., Los Angeles, Calif. Filed June 1, 1945. Serial No. 484,068.

*Patty Woodard*
CALIFORNIA

FOR LADIES' BLOUSES.
Claims use since 1941.

417,808. (CLASS 39. CLOTHING.) SIDNEY PASSIN, New York, N. Y. Filed June 2, 1945. Serial No. 484,101.

GOLD-N-HAIR SEAL

FOR LADIES' AND MISSES' FUR COATS, FUR HATS, FUR SCARFS, AND FUR MUFFS.
Claims use since Sept. 7, 1943.

417,809. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI BENDEL, INC., New York, N. Y. Filed June 15, 1945. Serial No. 484,554.

Eau de Sachet

FOR TOILET WATER.
Claims use since Apr. 24, 1941.

417,810. (CLASS 39. CLOTHING.) SABINA-GUSTAVE, New York, N. Y. Filed June 21, 1945. Serial No. 484,856.

Original Design by sabina-gustave

FOR LADIES' AND MISSES' BED JACKETS, SCARFS, SHAWLS AND CROCHETED SLIPPERS.
Claims use since June 8, 1942.

417,811. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SIG DAWER & Co., New York, N. Y. Filed June 28, 1945. Serial No. 485,139.

DESIGNED BY Pam DAWER

FOR NON-PRECIOUS NECKLACES, CHOKERS, EARRINGS, BRACELETS, BROOCH PINS, DRESS CLIPS, AND LAPEL PINS.
Claims use since May 2, 1939.

417,812. (CLASS 32. FURNITURE AND UPHOLSTERY.) TOMLINSON OF HIGH POINT, High Point, N. C. Filed July 3, 1945. Serial No. 485,427.

TOMLINSON of HIGH POINT

FOR ARTICLES OF FURNITURE—NAMELY, BUFFETS, DINING TABLES, SERVING TABLES, CHINA CABINETS, CORNER CABINETS, MIRRORS, DINING CHAIRS, SOFAS, SHORT SOFAS, CLUB CHAIRS, WING CHAIRS, BARREL CHAIRS, OCCASIONAL CHAIRS, DESK CHAIRS, BENCHES, BEDS, DRESSERS, VANITIES, VANITY STOOLS, DRESSING TABLES, CHESTS, CHESTS ON CHESTS, NIGHT TABLES, BEDROOM CHAIRS, BEDROOM BENCHES, HIGHBOYS, LOWBOYS, SECRETARIES, DESKS, COFFEE TABLES, CARD TABLES, END TABLES, LAMP TABLES, PIER TABLES, TILT-TOP TABLES, DROP-LEAF TABLES, CHAIRSIDE TABLES, BUTLERS' TABLES, WRITING TABLES, CONSOLE TABLES, VANITY TABLES, BEDSIDE TABLES, STOOLS, LONG STOOLS, CUPBOARDS, BOOKCASES, COUCHES, DAY BEDS, FOLDING TABLES, SIDEBOARDS, CRADLES, SOFA TABLES, READING STANDS, WINDOW SEATS, BUREAUS, DRESSING SCREENS, AND PANELS THEREFOR.
Claims use since Feb. 27, 1934.

417,813. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE GROSWOLD SKI COMPANY, INC., Denver, Colo. Filed July 9, 1945. Serial No. 485,568.




FOR SKIS AND SKI BINDINGS AND PARTS THEREOF.
Claims use since Dec. 31, 1935.

417,814. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ORR FELT & BLANKET COMPANY, Piqua, Ohio. Filed July 11, 1945. Serial No. 485,693.

ORR HEALTH

FOR BLANKETS OF WOOL AND OF WOOL AND COTTON.
Claims use since 1932.



417,815. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABICS.) THE ORR FELT & BLANKET COMPANY, Piqua, Ohio. Filed July 11, 1945. Serial No. 485,694.

Orrspun

FOR BLANKETS OF WOOL AND OF WOOL, COTTON, AND RAYON.
Claims use since January 1944.

417,816. (CLASS 39. CLOTHING.) JERRY ROSSMAN CORPORATION, New York, N. Y. Filed July 13, 1945. Serial No. 485,794.

ROSSMAN fabric

FOR LADIES', MISSES', GIRLS', AND CHILDREN'S DRESSES, BLOUSES, SKIRTS, PINAFORES, PLAYSUITS, PAJAMAS, NIGHTGOWNS, HOUSECOATS, BATH ROBES AND LOUNGING ROBES.
Claims use since Jan. 2, 1942.

417,817. (CLASS 2. RECEPTACLES.) AACON CONTRACTING CO., INC., Brooklyn, N. Y. Filed July 21, 1945. Serial No. 486,074.

BOXED BY AACON NEW YORK

FOR MANUFACTURED WOODEN CASES USED FOR PACKING AND BOXING AUTOS, MACHINERY, ETC., FOR EXPORT SHIPMENTS.
Claims use since Oct. 1, 1943.

# REISSUES

NOVEMBER 13, 1945

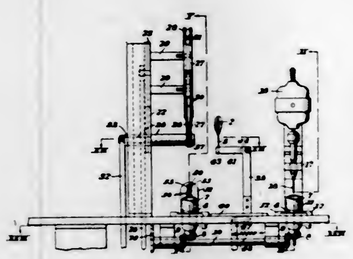
22,691

## SHUTTLECOCK MACHINE

Walter E. Humphrey, Jeannette, Pa., assignor to Pennsylvania Rubber Company, Jeannette, Pa., a corporation of Pennsylvania

Original No. 2,331,981, dated October 19, 1943, Serial No. 426,022, January 8, 1942. Application for reissue October 12, 1944, Serial No. 558,447

33 Claims. (Cl. 144—2)



1. In a machine for building shuttlecocks two spindles rotatably mounted in suitable support, means for effecting simultaneous turning of the two spindles through equal angular ranges, each spindle being adapted to receive and carry a shuttlecock head, means for sinking a hole in a shuttlecock head carried by one of said spindles, and means for planting a feather in a hole sunk in a shuttlecock head carried by the other of said spindles.

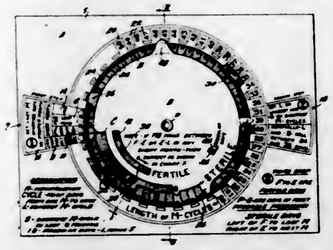
22,692

## RHYTHMETER FOR DETERMINING STERILITY AND FERTILITY

Gilmore Lee Tilbrook, Washington, D. C.

Original No. 2,343,592, dated March 7, 1944, Serial No. 476,050, February 16, 1943. Application for reissue July 24, 1945, Serial No. 606,731

5 Claims. (Cl. 40—115)

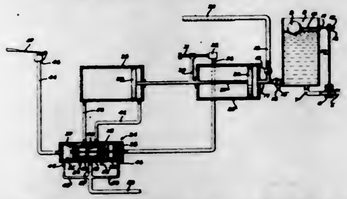



3. A device for ascertaining longest and shortest menstrual cycles for females, a base provided with a set of numerals adjacent its periphery approximating the days of the menstrual period, a central pin on said base, a first disc rotatable on said pin provided with two sets of successive numerals adjacent its periphery each set ranging from 1 to 31 adapted to register with those on the base, radial lugs, said lugs bearing the letters MD indicating missing days on said disc adjacent the numerals 29, 30 and 31 of each set on said first disc and at diametrically opposite points, a top disc rotatable on said pin having apertures therein, an intermediate disc having indicia thereon adapted to register with said apertures, and a detent also on said intermediate disc extending into one of said apertures to prevent the rotation of said top disc beyond a predetermined point.

# PATENTS

GRANTED NOVEMBER 13, 1945

2,388,662
**LIQUID MEASURING APPARATUS**
David G. Anderson, Clarendon Hills, and Walter B. Fairfield, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1941, Serial No. 422,248
1 Claim. (Cl. 121—38)



An operating and control apparatus for a liquid dispensing pump comprising a compressed air cylinder and its piston, a valve mechanism shiftable to supply air under pressure to either end of the air cylinder for actuating its piston including a pair of control cylinders, a piston in each control cylinder, a piston rod rigidly interconnecting the pistons in the control cylinders, means for directing air under pressure to said control cylinders under equal pressure normally to hold the piston rod in any position to which it has been shifted, an exhaust pipe in each of the control cylinders, an escape valve at the extremity of each of the exhaust pipes, manually operable means for opening one of said escape valves to permit the air directed to its associated control cylinder to escape from the cylinder whereby the pressure of the fluid in the other control cylinder will shift the pistons interconnected by the piston rod common to them for changing the direction of flow of fluid under pressure through the valve mechanism, means on the compressed air cylinder's piston for operating the other escape valve to relieve the pressure in the other control cylinder for returning the valve mechanism to its original position, and means for adjusting the position of the means on the compressed air cylinder's piston with respect to the other escape valve, said valve mechanism including a valve cylinder having two main outlet passages one connected to each end of the compressed air cylinder, two exhaust ports, and an inlet port, and a pair of slide valve members attached to the piston rod and slidable in said valve cylinder alternately to connect one main outlet passage with the inlet port and the other outlet passage to one of the exhaust ports.

2,388,663
**AROYLAMINONITRODIPHENYLAMINE**
Christopher Stanley Argyle, Spondon, near Derby, England, assignor to British Celanese Limited, London, England, a company of Great Britain
No Drawing. Application November 20, 1942, Serial No. 466,324. In Great Britain December 5, 1941
5 Claims. (Cl. 260—558)

1. An aroylamino-ortho-nitro-diphenylamine of which the aroyl radicle is selected from the group consisting of radicles of the formula $C_6H_5X—CO—$, wherein X represents a linkage selected from the group consisting of the direct linkage and $—CH_2—$, and the nuclear substitution products of radicles of said formula wherein the nuclear substituents are selected from the group consisting of alkyl, halogen and alkoxy.

2,388,664
**MAGNETIC MATERIAL**
Adolph F. Bandur, Berwyn, Joy F. Dillinger, Riverside, and Arthur N. Ogden, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1942, Serial No. 464,656
7 Claims. (Cl. 175—21)



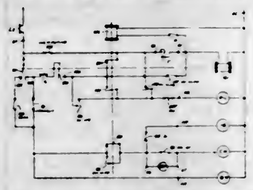
1. A magnetic core material having a substantially constant permeability comprising particles of an alloy containing chiefly nickel and iron, coated with an insulating material containing talc and sodium silicate compressed into a core, and a permeability stabilizing filler in said core selected from a group including powdered "pyrex" glass, quartz and silicon dioxide.

2,388,665
**DIBENZANTHRONE COMPOUNDS**
Ernest George Beckett, Larbert, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 8, 1943, Serial No. 490,066
8 Claims. (Cl. 260—355)

1. In the process of purifying alkylated dihydroxydibenzanthrones in which the hydroxyl groups are completely alkylated by removal therefrom of any incompletely alkylated hydroxy derivatives that may be present therein, the steps which comprise extracting the impure product with an aqueous solution of a caustic alkali and a heterocyclic nitrogen base, and filtering off the solution containing the dissolved impurities, the caustic alkali being present in an amount sufficient to form the alkali metal salt of the free hydroxy compounds, and the nitrogen base being employed in an amount sufficient to dissolve the alkali metal salts of the free hydroxy compounds formed in said solution.

2,388,666
**BURNER CONTROL MECHANISM**
George D. Bower, University City, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware
Application January 27, 1941, Serial No. 376,127
38 Claims. (Cl. 158—28)

1. In a mechanism of the kind described for use with a flame producing means, a control device for effecting sequential operations from a starting position, a first and a second circuit therefor, said control device being constructed to control a running period for the flame producing means, said first circuit being constructed after beginning of the running period to cause the control device to operate through a cycle to starting position, and the second circuit being constructed

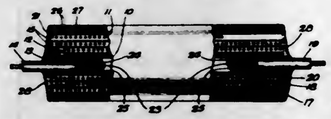


to cause the control motor to operate after beginning of the running period to a position of inoperation short of starting position, and means responsive to existence of the flame to select which circuit is effective, and means dependent upon the control device's being in starting position for instituting operation of the same.



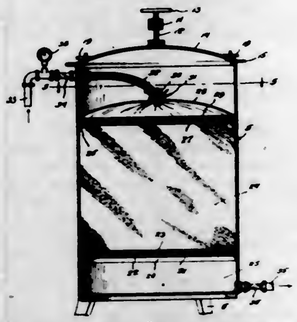


2,388,667
**ELECTRICAL DEVICE**
Arthur G. Bugler, Hinsdale, and Herbert P. Heath, Riverside, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 12, 1943, Serial No. 505,942
7 Claims. (Cl. 201—67)



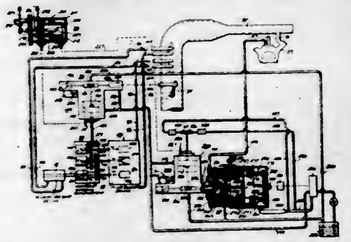
1. A coil comprising an inner tube of coalescible material, a plurality of convolutions of wire wound on said tube, a lead wire having a diameter slightly less than the bore of said tube, a splice connecting said lead wire to said winding, and a covering of coalescible material over said splice, said splice being inserted in the bore of said tube and coalesced thereto.

2,388,668
**FILTER**
Hobart E. Carter, Monahans, Tex., assignor of one-third to Samuel T. Carter, Penwell, Tex., and one-third to Marshall A. Russow, El Paso, Tex.
Application November 10, 1943, Serial No. 509,754
3 Claims. (Cl. 210—134)



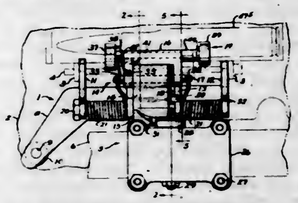
1. In a filter, a tank, upper and lower screening mediums removably mounted in said tank, a filtering agent filling the space between the screen mediums, a filter bag including a pad resting on one of the screen mediums, a solvent supply pipe extending into the bag, means for closing the mouth of the bag about said supply pipe and an outlet pipe connected to the lower portion of the tank.

2,388,669
**FLUID PROPORTIONING SYSTEM**
Thomas A. Baker, Logansport, Ind.
Original application May 12, 1942, Serial No. 442,711. Divided and this application December 24, 1942, Serial No. 470,016
10 Claims. (Cl. 123—139)



1. In a fluid control device including an air passage and a liquid passage jointly feeding a common chamber, first variable means for regulating the flow of the air through the air passage, second variable means for regulating the flow of the liquid through the liquid passage, the improvement of a joint regulating mechanism for operating the variable means comprising, in combination, operable control means having a first means for governing the first variable means and a second means for governing the second variable means, joint means for operating the first and second means, and variable connection means between the first and second means to vary the ratio between the amount of air and liquid delivered to the common chamber, said variable connection means including a common control member and two rotatable members actuated by the common control member, and means for moving the two rotatable members relative to each other.

2,388,670
**FEED MECHANISM FOR CARTRIDGE BELTS**
Guy T. Bixby, Dayton, Ohio
Application May 22, 1942, Serial No. 444,058
7 Claims. (Cl. 89—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cartridge belt feed mechanism for automatic guns, comprising spaced plates adapted to be carried by a recoiling portion of the gun and normal to the center line thereof, a shaft mount-

ed in said plates, an operating lever rockably mounted at one end on said shaft, and an arm pivotally mounted on the other end of said lever, an axle adjacent the lever and rotatably carried by said arm, cartridge feed discs mounted on the axle, a stop carried by the arm and engaging the lever to limit the movement of the arm relative to the lever, yielding means for keeping the stop in engagement with the lever, a cam carried by the lever, means adapted to be fixed in the path of movement of said cam for engagement with the cam on the recoil of the gun portion to actuate said lever to position said discs for advancing a cartridge, means carried by the arm and means carried by a cartridge feed disc cooperating to advance a cartridge when the lever is moved toward the gun on counterrecoil, and means for actuating the lever upon said counterrecoil to feed a cartridge.

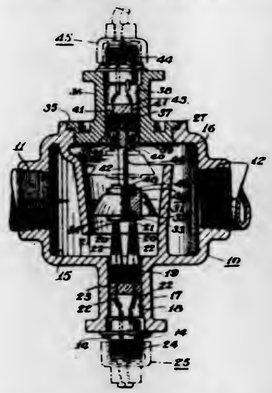
---

2,388,671

**FLOW RESPONSIVE SWITCH**

**Nathaniel Brewer, Hatfield, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania**

**Application May 26, 1943, Serial No. 488,527**
**6 Claims. (Cl. 200—81)**



1. A device for signalling insufficient rate-of-flow of fluid comprising an integral cast metal housing having a vertically-extending downwardly-tapered chamber formed integrally therewithin and adapted for upward flow of fluid therethrough, said housing having a screw-threaded neck formed in the bottom thereof, a cover removably fastened within the top of said housing, a nut screw-threadedly mounted within said neck, said nut having a pair of spaced electrical contacts extending upwardly therefrom and into the lower end of said tapered chamber, electrical conductors extending from said contacts through said nut and terminating in quick attachable and detachable electrical connection means on the outside of said housing, and a flow-constricting float adapted for free up-and-down movement within said chamber, said float having an electrical contact ring disposed on the underside thereof, said contact ring being adapted to complete an electrical circuit between said contacts when brought into juxtaposition therewith, said float having a specific gravity somewhat greater than the specific gravity of said fluid, the vertical position of said float within said chamber being generally dependent upon the rate-of-flow of said fluid, whereby an insufficient rate-of-flow will permit said float to sink within said chamber thereby to cause said contact ring to complete the electrical circuit between said contacts.

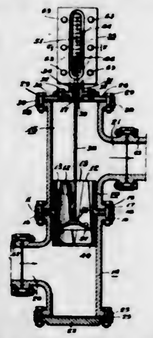
---

2,388,672

**FLOW MEASURING DEVICE**

**Nathaniel Brewer, Hatfield, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania**

**Application August 13, 1943, Serial No. 498,443**
**15 Claims. (Cl. 73—209)**



1. For measuring the rate-of-flow of a fluid, a vertically extending elongated metering tube having vertically-varying cross-sectional area available for fluid-flow, said metering tube having an annular outwardly extending flange, upper and lower standard flanged pipe T's defining a generally vertical conduit and adapted for connection to a pipe-line or the like, means connecting said pipe T's and said metering tube in fluid-tight relationship with the flange of said metering tube intermediate and in abutting relationship with the flanges of said pipe T's a metering float having a generally conical flow-constricting head adapted for free up-and-down movement within said metering tube, and means permitting reading of the position of said metering float.

---

2,388,673

**DUAL POWER OPTICAL SYSTEM**

**Leo H. Brown, Glenville, Conn.**

**Application June 9, 1944, Serial No. 539,506**
**3 Claims. (Cl. 88—32)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A telescopic optical system comprising a first segment of a converging lens of one focal length, a second segment of a converging lens of a different focal length, the focal length of the said first segment being shorter than the focal length of the said second segment, a wedge adjacent said first segment in the path of light from said first segment for bending light rays towards the principal axis of the said segment, said two segments being so positioned as to form real images of an object in a common plane; a wedge near said plane operative upon light proceeding from said first segment towards said plane, said wedge deviating said light towards the center line of the system; and converging lens means near said plane operative upon light proceeding from said first segment to said plane for positioning the eye point for this light at the same distance from an eye piece as the eye point for the light rays operated upon by the said second segment, when the light passing through said plane is viewed with the same eye piece.



---

2,388,674

**DIVING SUIT**

**John W. Browne, Waukesha, Wis., assignor to Diving Equipment and Salvage Co., Inc., Milwaukee, Wis., a corporation of Wisconsin**

**Application January 22, 1942, Serial No. 427,736**
**7 Claims. (Cl. 61—70)**



1. In a diving helmet, an air passage built into the wall of the helmet and disposed substantially horizontally with a medial portion thereof extending across the front of the helmet and end portions at the sides of the helmet, a breathing port opening into the helmet through an inner wall of the medial portion of the passage, a mask connected to the breathing port and through which the diver breathes; the inner wall of the air passage at opposite sides of the breathing port having openings of substantial size leading to the interior of the helmet, and an outer wall of one end portion of the air passage having an outlet port leading to the exterior of the helmet; an outlet valve inserted into the air passage through the opening in that end of the air passage which leads to the outlet port and disposed across the air passage to open only upon exhalation; a closure for said opening; an inlet valve inserted into the air passage through the other one of said openings and disposed across the air passage to open only on inhalation; a partial closure for said opening leaving an inlet port from the air passage into the interior of the helmet between which and said breathing port the inlet valve is located, and means for feeding life sustaining air into the helmet.

---

2,388,675

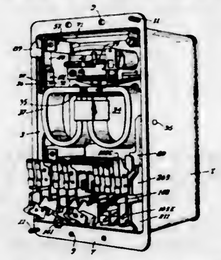
**ELECTRICAL INSTRUMENT MOUNTING**

**James F. Chapman, East Orange, and Kolman Riesz, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application April 20, 1943, Serial No. 483,730**
**23 Claims. (Cl. 175—307)**

1. In an electrical instrument assembly, a supporting structure, electrical contact means mounted on and secured to said supporting structure, an electrical instrument supported in operative position by said supporting structure, said electrical instrument being movable from said operative position to a position displaced therefrom, electrical contact means positioned on said electrical instrument and movable therewith between said positions, a first one of said electrical contact means comprising means operable with said electrical instrument in its operative position into and out of engagement with a second one of said electrical contact means, and a cover member attachable for covering said electrical instrument, said operable means including a part positioned in the path of attachment of said cover member when said operable means is in its disengaged condition for preventing application of said cover member to cover said electrical instrument unless said operable means is substantially in its engaged condition relative to the associated contact means.

23. In an electrical assembly for establishing an electrical connection between two relatively movable parts, a first insulating member, a second insulating member mounted for movement with respect to said first insulating member from



an operative position to a position displaced therefrom, switch means comprising a first contact element disposed on said first insulating member, a second contact element disposed on said second insulating member, and means mounting one of said contact elements on the associated insulating member for movement into and out of engagement with the other of said contact elements when said second insulating member is in operative position, a jack comprising a first contact member on said first insulating member, and a second contact member on said second insulating member, said contact members being positioned adjacent each other to provide a jack when said second insulating member is in operative position, means electrically connecting said first contact element to said first contact member, and means electrically connecting said second contact element to said second contact member, whereby said jack is connected across said switch means.

---

2,388,676

**SYNTHETIC LINEAR POLYAMIDES**

**Donald D. Coffman and Halsey B. Stevenson, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application January 12, 1942, Serial No. 426,540**
**8 Claims. (Cl. 8—115.5)**

6. A method for obtaining a synthetic linear polyamide which contains in amount of from about 0.2% to about 5% of an agent which imparts to said polyamide improved durability on continued exposure to sunlight and which is not removed by washing, said method comprising im-

pregnating said polyamide with a solution of resin-forming components comprising catechol, formaldehyde and an acidic catalyst, and heating the polyamide so treated, said polyamide being one which with hydrochloric acid yields a hydrolysis product selected from the class consisting of (*a*) monoaminomonocarboxylic acid hydrochloride, (*b*) a mixture of diamine hydrochloride and dibasic carboxylic acid, and (*c*) a mixture of amino alcohol hydrochloride and dibasic carboxylic acid.

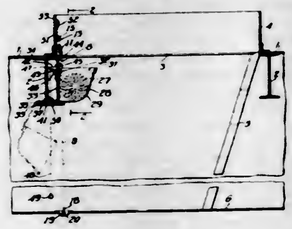
---

**2,388,677**
**SOLUBLE OIL AND PROCESS FOR PRODUCING SAME**
**Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application December 26, 1940, Serial No. 371,777**
**11 Claims. (Cl. 260—504)**

1. A method for producing a soluble oil which comprises contacting a sulfuric acid-treated oil while in an acid condition with a finely divided substance selected from the group consisting of diatomaceous filter aids, tripoli, and activated carbon to form a finely divided substance-pepper sludge complex, removing the finely divided substance-pepper sludge complex and sulfur dioxide and neutralizing.

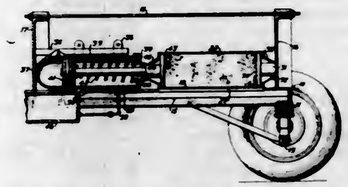
---

**2,388,678**
**INTERDECK LADDER APPARATUS**
**Noël L. Dahlander, New York, N. Y., assignor of one-half to Robert J. Earl, New Canaan, Conn.**
**Application May 8, 1943, Serial No. 486,157**
**8 Claims. (Cl. 228—42)**



4. The combination of a frame, a container having a plane rear wall, side walls and an arcuate wall forming a continuous bottom and front wall to form a discharging chute for the container, an extension extending rearward from the intersection between said arcuate wall and said rear wall, the rear end of said extension being pivotally connected to said frame, an anchor on said frame for normally engaging and anchoring the upper end of said rear wall in erect position of said container, and a flexible ladder connected at one end to said frame above said rear wall when in erect position and collectable in said container, said anchor being releasable to enable said container to swing downwardly about its pivotal connection to discharge said ladder into suspended position from said frame, said extension enabling said container when swung downwardly to clear said ladder in suspended position.

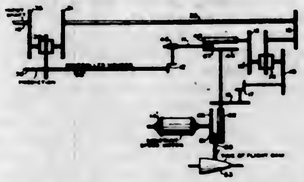
**2,388,679**
**METHOD OF FORMING EARTH BUILDING BLOCKS**
**James A. Davis, Lawrence, Kans.**
**Application November 3, 1941, Serial No. 417,711**
**10 Claims. (Cl. 25—156)**



1. In a process for forming a high strength and moisture resistant unit for building purposes, the steps of admixing a stabilizing agent to granular earth material, of placing the said earth with the stabilizing material into position in a compressing chamber in such relation that the earth with the stabilizing material will be on at least one of the exterior faces of the unit after compression thereof, of adding other granular earth material free of the said stabilizing agent the moisture content of the earth material being adjusted so as to be substantially seven percent by weight, of subsequently applying a pressure in excess of 500 pounds per square inch to the combination of earths, the said pressure being applied from at least two directions so as to obtain uniform compression of the earth material, of subsequently removing the pressure, the aforesaid combination of steps furnishing a building unit having at least a portion thereof stabilized and resistant to moisture and aging, the pressures further serving to give a unit of high tensile strength.

---

**2,388,680**
**BALL, DISK, AND DRUM MECHANISM**
**Edward Dawson, New York, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application August 21, 1941, Serial No. 407,706**
**3 Claims. (Cl. 74—388)**

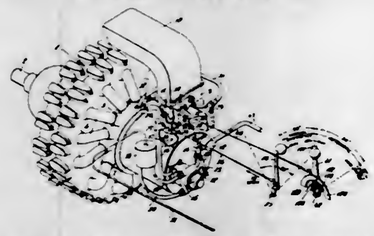


1. In a ball, disk and drum mechanism, a continuously rotating disk, a radially movable ball carriage, ball means carried therein, said ball means being driven by said disk, a drum driven by said ball means, a first differential, input means for driving one part of said first differential, output means for said first differential, actuating means controlled by the output means of said first differential for changing the radial position of the ball carriage in proportion to the speed of operation of said input means, a second differential, input means for driving one part of said second differential from said drum, input means for driving a second part of said second differential from said continuously rotating disk, output means for said second differential, and means for driving a second part of said first differential from the output means of said second differential to operate said actuating means and thereby normally position the ball carriage at a radial distance from the center of the disk.



---

**2,388,681**
**MIXTURE CONTROL APPARATUS**
**Desire J. Deschamps, Rutherford, N. J., assignor to Deschamps Fuel Injection Corporation, New York, N. Y., a corporation of New York**
**Application March 13, 1943, Serial No. 479,044**
**47 Claims. (Cl. 123—119)**

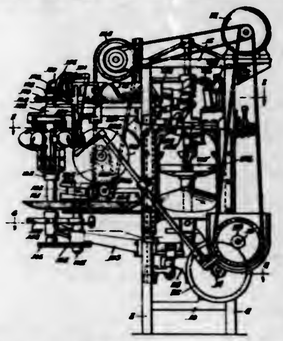


1. In combination with an engine having an air supply conduit, a throttle therein and fuel supply means having an output proportional to the engine speed and whose output at any given speed is variable, a fluid pressure responsive device subject to the fluid pressure in said conduit between the throttle and the engine and acting to regulate the output of said fuel supply means to control the ratio of the engine fuel and air in response to variations in such pressure, resilient means providing a force influencing the action on said pressure responsive device of such pressure and auxiliary means automatically effective during the operation of said resilient means to yieldingly influence said pressure responsive device by a varying amount and produce variations of the fuel-air ratio as said pressure varier.

---

**2,388,682**
**FRUIT TREATING APPARATUS**
**Raymond L. Ewald and Henry A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg., a corporation of Oregon**
**Original application January 17, 1938, Serial No. 185,232. Divided and this application February 14, 1942, Serial No. 430,840**
**21 Claims. (Cl. 146—28)**

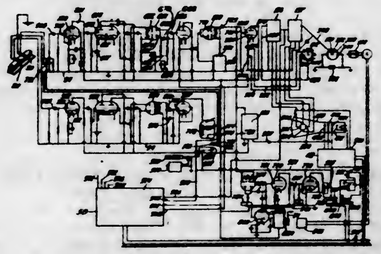
1. In an automatic machine for treating peaches, the combination of a shiftable turret having spaced means for receiving and holding a succession of whole peaches each with the plane of the maximum diameter of its pit when held being disposed parallel to the plane of action of flesh and pit severing means, means for severing the flesh and pit of the held peach into halves along a plane parallel to the plane of maximum diameter of the pit, a second turret having a plurality of spaced apart holding means each adapted to receive a severed half peach, said holding means being spaced on the periphery of the second turret, means for simultaneously conveying the two halves of each such severed whole peach in parallel paths while maintaining the halves in the same predetermined position and with their stem axes lying parallel to each other, means for bodily swinging said halves to deposit one of said half peaches in each of two adjacent holding means of said radially extending holding means of the second turret with the cut faces of the half peaches uppermost and lying in substantially a common plane and with the projections of their longitudinal stem axes intersecting at an angle of substantially sixty degrees, movable peeling means operably related to said turret, and adapted to peel the half fruit while held in the holding means, the axis of movement of the peeling means being parallel to the longitudinal axis



of the pit, pitting means operably related to said turret and adapted to pit one of the half peaches while held in said holding means, the axis of movement of the pitting means being parallel to the longitudinal axis of the pit of said half peach, means operable for discharging the peeled and pitted half peach from the holding means, and means associated with said holding means for scavenging peel from the holding means.

---

**2,388,683**
**METHOD AND APPARATUS FOR DETECTING FLAWS IN RAILS**
**Royal E. Frickey, San Francisco, Calif., and Chester W. McKee, Chicago, Ill., assignors to Welding Service, Inc., Chicago, Ill., a corporation of California**
**Application March 26, 1941, Serial No. 385,264**
**32 Claims. (Cl. 175—183)**



7. Apparatus for detecting flaws in rails comprising means for magnetizing a length of rail, means for traversing a flux responsive means over the rail ball whereby flux fields formed by flaws cause potentials to be induced in said flux responsive means, means for translating the potentials to form intelligible signals, a spotter coil located adjacent the path of movement of the flux responsive means, whereby movement of the flux responsive means past the spotter coil likewise causes a signal, and means for adjusting the position of the spotter coil along the rail to facilitate exact location of a flaw.

13. In apparatus for detecting flaws in rails lying in a roadbed, potential signal producing means comprising a core made of non-magnetic material disposed adjacent to the ball of the rail, and an elongated coil of wire wound on said non-magnetic core and disposed transversely to the length of the rail, said elongated coil having its ends projecting beyond each side of the ball of the rail whereby small lateral movements of the coil with respect to the rail will not substantially alter the potential signal producing characteristics of the elongated coil.

73. In the practice of detecting fissures in magnitized rails wherein a flux responsive means is moved at a substantially constant speed longitudinally adjacent the ball of the rail, the method of segregating short fissure flux fields from longer burn spot flux fields and magnetic spot flux fields each of which have an approach zone and a departure zone of opposite polarity, which comprises the steps of moving a flux responsive means substantially through the approach zone only of a fissure flux field to produce a potential signal of one polarity, of then moving the flux responsive means substantially through the departure zone only of the fissure flux field to produce a potential signal of opposite polarity, of moving this same flux responsive means through the approach and departure zones of other flaw flux fields adjacent the rail, and of delineating for all potential signals a visible line signal in one direction as along the X-axis at a speed sufficient to traverse a readily visible distance when the flux responsive means moves completely through the fissure flux field and along the Y-axis at a speed proportional to the amplitude of the potential signals, whereby the visible signal from a fissure flux field will have a readily perceptible shorter time duration than the visible signal derived from burn spot and magnetic spot flux fields.

---

**2,388,684**
**INSECTICIDE**
**Samuel I. Gertler and Herbert L. J. Haller, Washington, D. C., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office**
**No Drawing. Application December 7, 1943, Serial No. 513,220**
**4 Claims. (Cl. 167—30)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. An insecticidal composition of matter comprising as its essential active ingredient benzophenone semicarbazone and a carrier therefor.

---

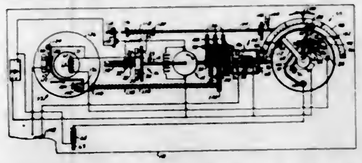
**2,388,685**
**FLEXIBLE POLYMERIC PRODUCT AND METHOD OF MAKING SAME**
**Cyrus O. Guss and Roger W. Amidon, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**Application May 13, 1942, Serial No. 442,854**
**18 Claims. (Cl. 260—86.5)**



14. A solid thermoplastic polymeric product which is flexible at temperatures as low as −50° C. and which is prepared by polymerizing styrene at a temperature above 50° C. while in aqueous emulsion to obtain an aqueous dispersion of polystyrene containing less than 10% of monomeric styrene based on the weight of the polystyrene, thereafter adding between 2.3 and 3.5 molecular equivalents of butadiene-1.3 per mole of the styrene initially employed, and polymerizing the butadiene-1.3 at a temperature above 50° C. while in the colloidal solution.

---

**2,388,686**
**INTERVALOMETER**
**Harry R. Habig, Dayton, Ohio**
**Application July 9, 1943, Serial No. 494,027**
**17 Claims. (Cl. 161—1)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. An instrument for electrically energizing the coil of an actuating device at selected accurately spaced intervals, which comprises, in combination, an electric motor, a governor for maintaining said motor at a uniform speed, means for adjusting said governor for different motor speeds, a switch for starting and stopping said motor, a gearset drivably connected to said motor, a clutch shaft, a clutch engageable for drivably connecting said clutch shaft to the driven gear of said gearset, a clutch-engaging electromagnet, a switch operating arm extending radially from said clutch shaft operative to be turned forward by said clutch shaft when said clutch engages, a torsion spring for turning said arm backward when said clutch disengages, a graduated control knob rotatable forward from an off position, a stop carried on said control knob circumferentially movable by rotation of said knob for fixing the angular movement of said arm by said spring, an actuator switch positioned to be closed by forward movement of said arm upon rotation of said shaft by said clutch, an actuator electromagnet connected to be energized by closing of said actuator switch, a clutch-disengaging switch positioned to be closed by movement of said arm upon further rotation of said shaft, a clutch-disengaging electromagnet energizable by closing of said clutch-disengaging switch, a second clutch-disengaging switch operative to be opened by energization of said clutch-disengaging electromagnet, said second clutch-disengaging switch being operative upon being opened to deenergize said clutch-engaging electromagnet and disengage said clutch, a cam driven by a gear of said gearset operative to hold said second clutch-disengaging switch open after it has been opened until said arm has been returned to said stop by said spring, and means on said knob operative only when said knob is in the off position to hold said motor switch open.

---

**2,388,687**
**METHOD OF MAKING MULTIFOCAL OPHTHALMIC LENS BLANKS**
**James H. Hammon, Vincennes, Ind.; Alberta M. Hammon, executrix of said James H. Hammon, deceased**
**Application December 18, 1942, Serial No. 469,417**
**2 Claims. (Cl. 88—54)**

1. A method of forming a multifocal ophthalmic lens blank which comprises forming a button



receiving surface on a major blank, forming a carrier portion of the same index of refraction as the major blank, said carrier portion having a socket formed therein, said socket being of substantial depth but not extending completely through said carrier, the shoulder and bottom portion of said socket being optically finished, providing a segment with a finished optical surface on one side thereof, said segment being of an index of refraction different from the major blank and said carrier, said segment being of substantial thickness throughout its entire area, said segment being of substantially the same shape as the socket formed in the carrier, embedding said segment in said socket in such a



manner that the segment is substantially laterally surrounded by the carrier portion so as to provide a thick embedded shoulder around the segment, said segment having its finished optical surface in contact with the complimental finished optical surface of the socket thus preventing distortion of the finished optical surface during the subsequent fusing operation which forms the composite button, finishing one surface of said composite button so that it can be mounted in the button receiving surface of the major blank, and fusing the composite button to the major blank while maintaining all portions of the segment out of contact with said major blank.

---

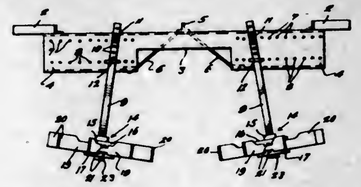
**2,388,688**
**RESOLUTION OF ENANTIOMORPHS**
**Henry B. Hass, West Lafayette, Ind., assignor to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana**
**No Drawing. Application July 18, 1941, Serial No. 403,075**
**14 Claims. (Cl. 260—535)**

1. A method which comprises subjecting to rectification a mixture of diastereoisomers composed of a compound having two characterizing groups each containing an asymmetric atom of opposite light rotating tendencies and a like compound wherein the two asymmetric atoms have the same light rotating tendencies, separating fractions during rectification having different specific rotations, reacting upon one of said fractions to decompose the diastereoisomer with the formation of two optically active compounds each containing one of said characterizing groups, and separating therefrom the one of said optically active compounds whose characterizing group originally was present in two enanthiomorphic forms.

---

**2,388,689**
**AGRICULTURAL DEVICE**
**Neville Z. Hebert, Jeanerette, La.**
**Application May 8, 1941, Serial No. 392,553**
**1 Claim. (Cl. 97—179)**

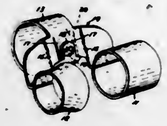
An agricultural device comprising a horizontal bar for mounting transversely on an agricultural implement, said bar having horizontal series of upper and lower openings therein, shanks of square cross section in face-abutting engagement with the bar and depending therefrom, said shanks having vertical series of openings therein, bolts engageable selectively in the upper openings in the bar and in the last-named openings for securing said shanks to said bar for lateral shifting, pivotal and vertical adjustment, U-bolts engaged with the shanks and insertible selectively in the lower series of openings for securing said



shanks in pivotally adjusted position, and rotary hoes journaled on the lower end portions of the shanks.

---

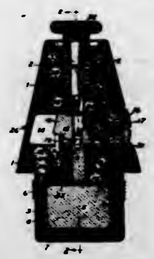
**2,388,690**
**LINK**
**Howard B. Holroyd, Davenport, Iowa**
**Application July 29, 1944, Serial No. 547,237**
**6 Claims. (Cl. 89—35)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In a belt link comprising a body portion and a loop extending from said body portion and including a free end portion returned to and disposed adjacent said body portion, means for connecting said free end portion to said body portion comprising socket and detent elements respectively on said portions, said socket and detent elements being constructed and arranged whereby said detent fitting said socket relatively loosely to provide for limited movement of said loop away from said body portion.

---

**2,388,691**
**FUSE**
**John J. Horan, Buffalo, N. Y.**
**Application August 6, 1942, Serial No. 453,775**
**7 Claims. (Cl. 102—78)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

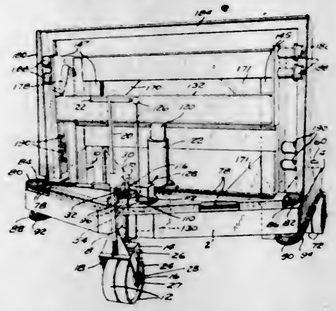


1. A non-rotating type fuse comprising a body having a transverse slideway therein and a bore normal to and intersecting the slideway, a firing pin in the bore with spring means normally maintaining it above the slideway, said firing pin

being arranged to be operated upon setback against the influence of said spring means, a slider mounted in the slideway and carrying a primer charge, spring means urging the slider into the slideway, and control means holding the slider in retracted, safe position before firing, said control means operating upon setback to release the slider, said firing pin being operated upon setback to arrest the movement of the slider in an intermediate, safe position, and thereafter, when its setback urge ceases, to release the slider to permit the last mentioned spring means to move the slider to an armed position, said control means, after its setback urge has ceased, being movable to a position to lock the slider in its armed position and with the primer charge in line with the firing pin.

---

**2,388,692**
**LIFTING TRUCK**
**William C. House, Greene, N. Y., assignor to Lyon-Raymond Corporation, Greene, N. Y., a corporation of New York**
**Application November 2, 1943, Serial No. 508,711**
**12 Claims. (Cl. 280—48)**

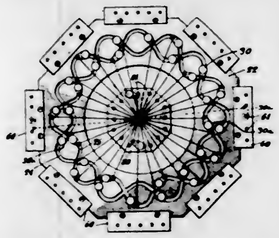


1. A truck comprising, in combination, a frame, a front steering wheel and rear supporting wheels, each of said wheels having a bearing support swiveled in the frame to permit steering movements thereof, a steering and draft tongue having a direct steering connection to the front wheel bearing support for independent steering movement thereof, means directly connectable to and disconnectable from the front wheel swivel for effecting, when desired, a positive swivel turning connection between said rear wheel swivels and said front wheel swivel or for leaving said front wheel swivel free for independent steering movement, respectively, said means being connectable or disconnectable only when the steering and supporting wheels are in predetermined angular relations to each other, and means, including said positive swivel turning connection, for positively locking the rear wheel swivels against swiveling movement whenever said swivel turning connection therefrom to the front wheel swivel is disconnected.

---

**2,388,693**
**METHOD AND MACHINE FOR MAKING CATHETERS**
**Norman C. Jeckel, Glens Falls, N. Y., assignor to United States Catheter & Instrument Corp., a corporation of New York**
**Application April 29, 1944, Serial No. 533,280**
**9 Claims. (Cl. 87—11)**

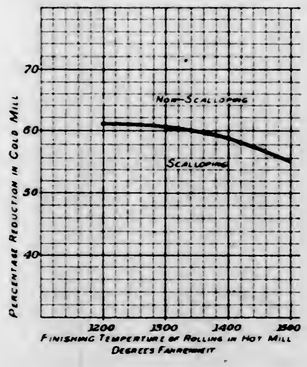
1. The method of making a braided catheter tube characterized by a substantially uniformly tight and closely braided weave of the threads throughout the product, comprising braiding a plurality of threads to form a cylindrical tube portion, withholding in step-like order some of the threads from entering into the braiding operation by maintaining certain of said threads inside the tube until the product is tapered from the hollow cylindrical size to substantially cord size, then returning the withheld threads in step-like order from inside the tube into the braiding



operation, thereby forming a tapered portion from cord size to the former cylindrical size, maintaining all of said threads constantly under substantially the same tension throughout the entire operation, cutting the product at the mid-sections of the tubular portion and at the cord sections, and coating the cut lengths of the tubular and tapered portions with lacquer.

---

**2,388,694**
**MAKING SUBSTANTIALLY NONSCALLOPING BIMETALLIC SHEET METAL**
**Walter L. Keene, Dormont, and William A. Carlson, Pittsburgh, Pa., assignors to Superior Steel Corporation, Pittsburgh, Pa., a corporation of Virginia**
**Application October 3, 1942, Serial No. 460,648**
**5 Claims. (Cl. 148—12)**

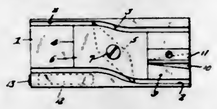



1. A method of making substantially non-scalloping bimetallic sheet metal having a layer of steel and a layer of non-ferrous metal having a relatively low melting point comprising heating to a temperature suitable for rolling in a hot rolling mill but below the melting point of the non-ferrous metal a bimetallic billet comprising a component of steel and a component of said non-ferrous metal, rolling said billet into sheet metal in a hot rolling mill, finishing such rolling at a temperature below the upper critical temperature of the steel but not substantially below 1200° F., rolling the thus rolled sheet metal in a cold rolling mill and thereby reducing its gauge over 60% and annealing the rolled sheet metal.



---

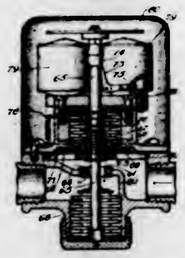
**2,388,695**
**LETTER OPENER**
**Alex A. Kriewaldt, Oconto, Wis., assignor of one-half to Harold W. Krueger, Oconto, Wis.**
**Application August 5, 1944, Serial No. 548,202**
**1 Claim. (Cl. 30—289)**



A device of the character described comprising an elongated block having a groove in its top portion extending from end to end thereof, said groove including laterally offset end portions and further including a substantially oblique intermediate portion connecting said end portions, the block further having a recess in its intermediate top portion communicating with the groove, a blade mounted in the recess and having its cutting edge extending obliquely across the groove at a point adjacent the substantially oblique intermediate portion of said groove, a bar mounted in the recess and engaged with the blade, and a screw passing through the bar and the blade and threaded into the block for securing said bar and said blade in position.

---

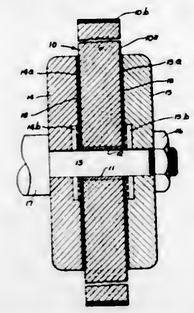
**2,388,696**
**AUTOMATIC VALVE**
**Rollin H. Lacart, Chicago, Richard H. Gilbert, Oak Park, and Henry L. Beekley, Glen Ellyn, Ill., assignors to The Electrimatic Corporation, a corporation of Illinois**
**Application January 2, 1942, Serial No. 425,468**
**5 Claims. (Cl. 137—139)**



1. A valve of the character described for controlling fluid flow, including: a casing having an inlet passageway and an outlet passageway separated by a partition having an opening therein; a seat around said opening; a valve member movable toward and away from said seat to control flow through said opening; a chamber in said casing adapted to be in communication with one of said passageways; a diaphragm member open to the pressure in the chamber and connected to the valve member; and a plate member adjacent the diaphragm, the plate member being movable with the valve member and adapted to have at least a portion thereof engage the diaphragm during closing movement of the valve member, the diaphragm having at least one opening therethrough within the area of engagement of the plate member.

---

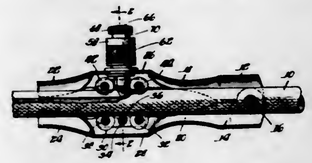
**2,388,697**
**GRINDING WHEEL MOUNTING**
**Robert H. Lombard, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Application March 28, 1944, Serial No. 528,383**
**4 Claims. (Cl. 51—168)**



1. A grinding wheel mounting comprising a rotatable grinding wheel support having clamping members, and a grinding wheel having against a face thereof a mat element of woven glass fibres presented to one of said clamping members for compression of its springy fibres to thereby transmit and substantially yieldingly distribute throughout said face of the grinding wheel the clamping pressure exerted by the clamping member.

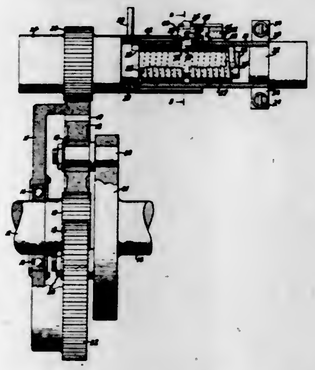
---

**2,388,698**
**CABLE SLITTER**
**Robert J. Montgomery, Chicago, Ill., assignor to Henrietta G. Montgomery, Chicago, Ill.**
**Application March 6, 1944, Serial No. 525,254**
**11 Claims. (Cl. 30—91)**



1. A cable slitter and insulation cutter comprising a frame, cutting means carried by said frame, cable engaging means carried by said frame and associated with said cutting means and adapted to engage and press a cable into engagement with said cutting means, said cutting means being mounted on the end of a shaft, a sleeve mounted on said frame, said shaft being mounted in said sleeve, means for holding said shaft against rotary movement relative to said sleeve, a shaft positioning member threadedly mounted on said sleeve, and a lock screw arranged to threadedly engage one extremity of said shaft and to abut said shaft positioning member.

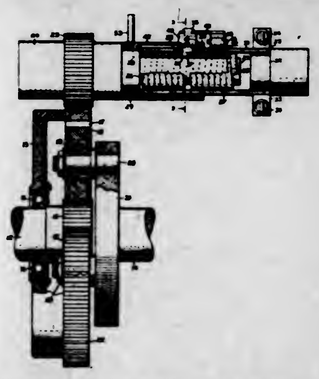
2,388,699
**DRIVING MECHANISM**
Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 5, 1942, Serial No. 467,983
3 Claims. (Cl. 74—291)



1. A driving mechanism including an electric driving means, a driven member, means including a planetary gearing for providing a driving connection between said driving means and said driven member, said planetary gearing including a sun gear arranged to be driven by said driving means, a ring gear, planet gears rotatably supported by said driven member and arranged in engagement with said sun and ring gears, a load connecting and releasing means including a spring brake operable in response to operation of said driving means for holding stationary said ring gear to provide said driving connection between said driving means and said driven member, means including a brake operating stop pin biased towards a brake operating position for engaging said spring brake to provide said driving connection when said pin is in operating position, means including an operating member for actuating said stop pin away from said brake operating position for releasing said driving connection above a predetermined torque through said driving connection, means operable in response to said release of said connection for stopping operation of said driving means, and means including an element for preventing said pin from being biased into said operating position for preventing formation of said driving connection after said release thereof except by reversal of said driving means.

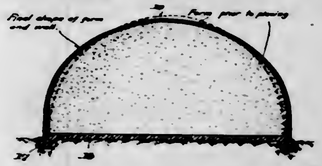
2,388,700
**DRIVING MECHANISM**
Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 29, 1942, Serial No. 470,466
13 Claims. (Cl. 74—291)

1. A driving mechanism including a driving means and a driven member, means including a spring clutch responsive to operation of said driving means for providing a driving connection between said driving means and said driven member below a predetermined torque when said driving means is in operation and for releasing said driving connection above said predetermined torque, and means for controlling the operation of said spring clutch for preventing formation of



said driving connection after said release thereof due to a torque above said predetermined torque except by reversal of said driving means.

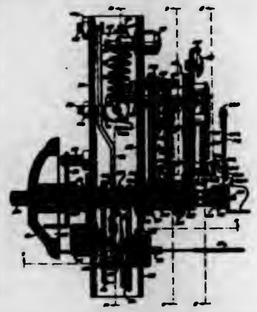
2,388,701
**METHOD AND APPARATUS FOR CONSTRUCTING SHELL-FORM STRUCTURES**
Wallace Neff, Los Angeles, Calif.
Application July 15, 1942, Serial No. 451,056
18 Claims. (Cl. 25—131.5)



1. The method of constructing shell-form structures which consists in securing a collapsed inflatable member which is open at its bottom, but which is adapted when its bottom is closed and upon inflation to assume a size and shape corresponding substantially to the interior of the intended structure, to a suitable foundation in such manner that the foundation closes the open bottom, inflating the member, and applying a covering layer of settable plastic material on to the exterior surface of the inflated member in such manner that the applied material will remain in place without the aid of an external form and will provide upon setting a self-sustaining shell.

2,388,702
**DOMESTIC APPLIANCE**
George C. Pearce, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 30, 1939, Serial No. 311,900
9 Claims. (Cl. 219—20)

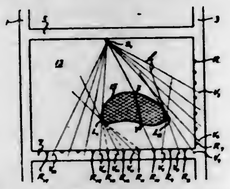
9. An electric heating means for heating a zone to be heated, thermostatic switch means for controlling the connection of the heating means to a power source to regulate the temperatures of said zone as desired, means for connecting said heating means selectively into a baking circuit arrangement and into a preheat circuit arrangement, manually operable means for moving said connecting means into the preheat circuit arrangement, and means including an electrical circuit portion controlled by said thermostatic switch means and a current con-



ducting electro-thermal device connected in said circuit portion and rendered effective in response to the opening of said thermostatic switch means for causing the movement of the connecting means from the preheat circuit arrangement to the baking circuit arrangement.



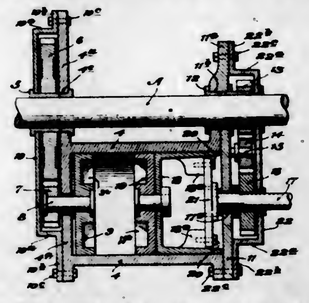
2,388,703
**GEOLOGICAL PROSPECTING SYSTEM**
Raymond A. Peterson, Pasadena, Calif., assignor to United Geophysical Company, Inc., a corporation of California
Application September 20, 1941, Serial No. 411,700
9 Claims. (Cl. 181—0.5)



1. In a method of delineating an ore body, the improvement which comprises generating at a source seismic waves which travel outwardly from the source and are diffracted by an ore body into the shadow zone of the ore body, receiving said diffracted waves at spaced reception points, determining the direction from which the diffracted waves travel to said reception points, plotting on a map coordinated with the region under investigation ray-lines representing the paths of travel of said diffracted waves to said reception points, and determining points of convergence of said ray-lines to locate extremities of the ore body on said map.

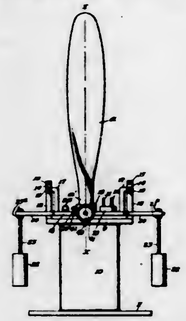
2,388,704
**FLUID BRAKE**
Leman Curtis Potter, Royal Oak, Mich.
Application January 2, 1943, Serial No. 471,167
20 Claims. (Cl. 188—90)

1. A fluid brake for automobiles or the like having a drive shaft, comprising a fixed cylinder; a head in said cylinder rotated by the drive shaft; a piston in said cylinder rotated by the drive shaft; liquid and air confined in said cylinder



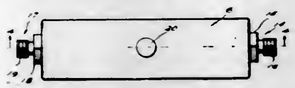
between said head and piston; and means for moving said piston towards and away from the head.

2,388,705
**APPARATUS FOR BALANCING PROPELLER BLADES**
Harry P. Reiber, Toledo, Ohio, assignor to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application November 5, 1942, Serial No. 464,581
6 Claims. (Cl. 73—66)



1. In an apparatus for balancing a propeller blade, a base member, a pair of spaced supporting arms extending from said base member, a cradle member, a pair of spaced supporting arms extending from said cradle member, a first flexible strip carried by one of said base member arms and secured to one of said cradle member arms, a second flexible strip carried by the other of said base member arms and secured to the other of said cradle member arms, said strips acting to flexibly carry said cradle member to provide for rocking movement of said cradle member, a socket carried by said cradle member intermediate said cradle member arms and adapted to support the blade with its longitudinal axis in a vertical plane and so that said axis will lie in a vertical plane joining said strips, a weight carrying member carried by said cradle member and non-symmetrical, a weight positioned by said carrying member and rotatable therein, the center of rotation of said weight in said carrying member being in the plane joining said strips, said weight being operable upon rotation to counterbalance the unbalance of the propeller blade about its longitudinal axis in a vertical plane perpendicular to the plane joining said strips.

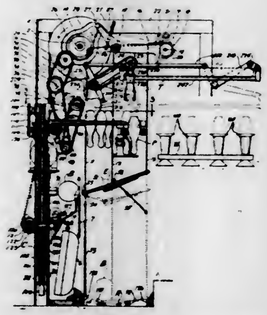
**2,388,706**
**HYDRAULIC SAFETY BRAKE SYSTEM**
**Clyde E. Roy, Houston, Tex.**
**Application February 9, 1944, Serial No. 521,693**
**1 Claim. (Cl. 303—84)**



A safety device for incorporation in a hydraulic distribution pipe between a master cylinder and the adjacent and coacting wheel cylinder comprising a longitudinally elongated substantially rectangular body provided with a main horizontal bore located adjacent one surface of the body and opening through opposite ends of said body, the ends of said bore being internally screw threaded, nipple fittings threaded into the screw-threaded ends of said bore, a coiled spring mounted in the intermediate portion of said bore, an assembling and stop pin mounted in said bore at a point spaced inwardly from the adjacent nipple, one end of said spring bearing against said pin, a double headed piston fitted snugly in the bore, the opposite end of said spring bearing against one of the piston heads, a second stop and assembling pin bridging the bore at the opposite end portion and located in a position spaced inwardly from the nipple of the adjacent fitting, a coacting auxiliary bore formed in said body and constituting a by-pass, the ends of said auxiliary bore communicating with the end portions of the first-named bore at points outwardly of the spring, piston and said stop and assembling pins, and a needle valve arranged centrally between the ends of the by-pass and dividing it into independent chambers.

---

**2,388,707**
**BOWLING PIN SETTER**
**Rupert E. Rundell, Rockville Centre, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application March 10, 1939, Serial No. 260,901**
**75 Claims. (Cl. 273—43)**

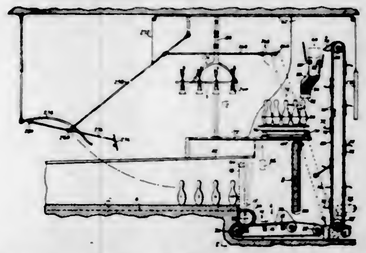


7. In a pin setting machine for bowling alleys, a pin storage magazine comprising a pair of spaced, elongated, threaded members constructed and arranged to support a plurality of vertically positioned pins in an aligned series, conveyors for transferring pins to said magazine, a device cooperating with said conveyors to limit the number of pins entering said magazine, said device including pin counting mechanism, and control means coacting with said mechanism for terminating the movement of said conveyors when a predetermined number of pins has been fed into said magazine, a device for gripping and transferring pins from said magazine to a pin setter, and means controlled by the movement of pins from said magazine in said device for re-instituting the operation of said conveyors to refill said magazine.

35. In a pin elevating mechanism for an automatic bowling alley pin setter, a pin storage magazine, conveying mechanism for elevating pins from a receiving point to said magazine, including a pair of spaced worms, means for rotating said worms in a single direction, means for feeding pins to said worms for translation therealong in upright position, a pin setter, a pin transfer for removing a plurality of pins from said magazine, said transfer including a plurality of positively actuated pin gripping and holding units, and positively actuated mechanism for moving said transfer and substantially simultaneously displacing said units on said transfer to deliver pins from said magazine to said setter.

---

**2,388,708**
**PIN SETTING MECHANISM FOR BOWLING ALLEYS**
**Leon W. Bates, Trenton, N. J., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application March 19, 1940, Serial No. 324,762**
**59 Claims. (Cl. 273—43)**



1. In combination with a bowling alley having a pit at the end thereof into which balls and pins pass in the course of play, means for separating the balls from the pins comprising a belt, and means mounting said belt for longitudinal movement within the limits of said pit, said belt being provided with spaced upwardly projecting ribs extending diagonally with respect to the direction of movement of the belt.

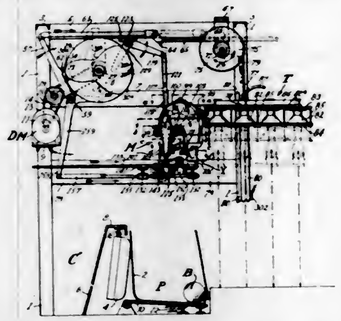
---

**2,388,709**
**PIN SETTER FOR BOWLING ALLEYS**
**Rupert E. Rundell, Rockville Centre, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application December 18, 1941, Serial No. 423,458**
**59 Claims. (Cl. 273—43)**

1. In a bowling pin setting machine, a magazine containing a number of inverted bowling pins sufficient for playing, a plurality of pin handling cups located adjacent said magazine, positively actuated movable means for transferring said pins from said magazine and positioning them head end upright in said cups, and means for transferring said pins head ends upright to an alley.



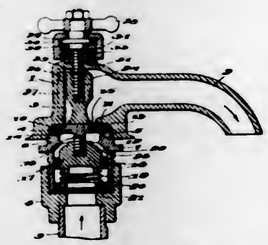
58. In a bowling pin setting machine, a pin setting and resetting table movable to and from an alley, a plurality of pin gripping setter-resetter units mounted on one side of said table, a cam shaft, a plurality of gripping unit control cams carried on said shaft, strike and spare control cams also carried on said shaft, and selectively



operated means operable as a result of all pins of a frame being knocked down by the first ball or the failure of said first ball to knock down all said pins, to select certain of said gripper unit control cams and said strike cam or said spare cam for controlling the operation of said units for setting of a new set of pins or resetting pins remaining standing after the first ball has been thrown.

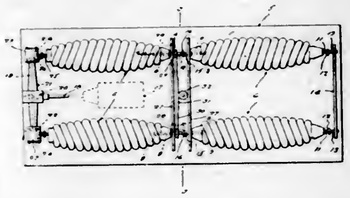
---

**2,388,710**
**VALVE**
**Hugh W. Sanford, Knoxville, Tenn.**
**Application January 14, 1941, Serial No. 374,388**
**2 Claims. (Cl. 277—27)**



1. In a valve structure, valve body sections having an interengaged rotatable wedging connection with each other capable of separation and detachment and having a radial crack between said sections at which the sections are separated, said sections having aligned shoulders on opposite sides of said crack, an annular gasket of flexible yieldable material interposed and pinched between said body sections overlapping the shoulders at opposite sides of the crack and in position to bear radially against said shoulders and to be pressed thereagainst over the crack by internal fluid pressure in the valve, said gasket having a conical valve seat therein, and a conical valve in position to engage said seat and in position to expand the gasket over the crack and against the shoulders by seating engagement with the gasket.

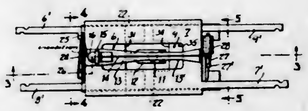
**2,388,711**
**BOAT PROPULSION MEANS**
**Clarence H. Sawyer, Naples, Idaho**
**Application June 14, 1944, Serial No. 540,338**
**4 Claims. (Cl. 115—19)**



1. In a structure of the class described, in combination, a boat body, a prime mover mounted thereon, a pair of longitudinally aligned hollow spirally corrugated propeller-floats, means suspending said floats from the underside of said body, an operating connection between the prime mover and an adjacent end of one of said floats including a universal joint, and operating connections between the adjacent inner ends of said floats also including universal joints, a steering shaft having a hand-wheel, said shaft mounted on said boat, and an operating connection between the steering shaft and inner interconnected ends of said floats for either aligning or disaligning the floats to employ the same as maneuvering and steering devices.

---

**2,388,712**
**THERMAL SWITCH AND RELAY**
**Joseph Schmidinger, Lake George, N. Y.**
**Original application August 11, 1939, Serial No. 289,529. Divided and this application April 20, 1942, Serial No. 439,740**
**18 Claims. (Cl. 200—137)**



1. A switch unit of the character set forth comprising a series of alternating metallic and insulated plates secured flat against each other, one of said metallic plates carrying a vane type switch member and another of said metallic plates carrying a contact member for cooperation with said vane member, certain of said metallic plates carrying circuit terminals for connecting the switch unit in circuit and certain of said plates having lugs folded under against the bottom plate to hold the plates tightly against each other.

---

**2,388,713**
**ADJUSTABLE LENS MOUNT FOR GAS MASKS**
**Nathan R. Schutz and Jack Dubitsky, New York, N. Y., assignors of one-third to Alfred H. Sachs, Cleveland, Ohio**
**Application January 8, 1943, Serial No. 471,638**
**12 Claims. (Cl. 88—41)**

1. A mask of the class described, comprising a body portion having a pair of transparent win-

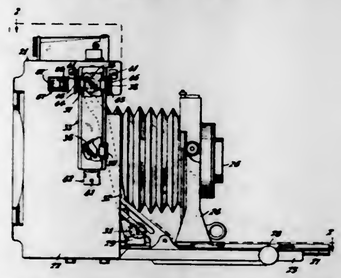
dows and relatively shallow frames within which the windows are seated, a pair of lens frames positioned at the inside of the mask behind the windows and adapted to receive a pair of lenses and support the same between the windows and the eyes of the wearer, a resilient wire mounting member for each of the lens frames adapted upon contraction to be fitted within the window frames and upon release, to bear resiliently against such frames to anchor the lens frames firmly within the mask, the lens frames being disposed in planes



rearward of the planes of the mounting members, and the ends of the mounting members being separated from each other at the tops of such members in the normal position thereof within the window frames and no portion of the mounting member extending rearwardly of the planes of said lens frames, and adjustable connecting means between each mounting member, and its associated lens frame, for enabling the lenses to be centered and to be adjusted to the eye distances of different wearers of the mask.

---

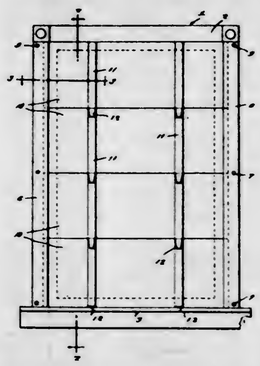
**2,388,714**
**RANGE FINDER FOR CAMERAS**
**Hyman Schwartz and William Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., New York, N. Y., a corporation of New York**
**Substituted for abandoned application Serial No. 420,158, November 24, 1941. This application January 27, 1943, Serial No. 474,048**
**9 Claims. (Cl. 95—44)**



1. In combination with a camera having a focusing lens movable relative to the casing thereof, a range finder having a sighting window and two objective windows, said range finder being controllable in a predetermined manner by the focusing movement of said lens, a photoflash unit including a battery, a light unit including a light bulb connectable with said battery, means for pivotally moving said light unit into operative relation with the sighting window of said range finder whereby a beam of light from said bulb may be directed into said range finder through said sighting window, a stop for limiting pivotal movement of said light unit when in position to direct the light beam into said range finder through the sighting window thereof, means in said range finder for dividing said beam of light into two separate beams and directing the same out through the two objective windows of said range finder and means including the control of said range finder by the movement of said focusing lens whereby the two light beams merge at the focal point of said lens relative to the position thereof with respect to the camera negative.

---

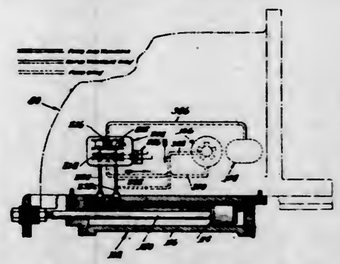
**2,388,715**
**WINDOW BLIND**
**Lillian T. Smith, Chicago, Ill.**
**Application January 29, 1944, Serial No. 520,293**
**2 Claims. (Cl. 160—184)**



1. A window blind of the character described comprising a pair of bars mounted vertically on a window frame, panels mounted for vertical sliding adjustment between said bars, and endless loops of flexible material extending around the panels and secured thereto, said loops including portions which are free of the panel, said portions being adhesively secured together and defining operating tabs depending from the lower edges of the panels.

---

**2,388,716**
**VALVE MECHANISM**
**Ernest J. Svenson, Rockford, Ill., assignor, by mesne assignments, to Odin Corporation, Chicago, Ill., a corporation of Illinois**
**Original application March 30, 1936, Serial No. 71,754, now Patent No. 2,266,829, dated December 23, 1941. Divided and this application January 22, 1941, Serial No. 375,501**
**21 Claims. (Cl. 60—97)**

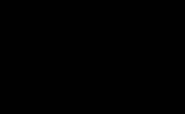


4. Valve mechanism including a valve housing, a shiftable valve member in said housing, said housing and valve member having cooperative passages for directing fluid to an actuator to be controlled thereby, a second valve member having fluid actuated means adapted to be shifted by fluid controlled by said first valve member, said second valve member having passages for directing fluid to an actuator to be controlled, and means operated by the shifting of the second valve member for operating the first valve member.

21. Control mechanism comprising a first valve member, a second valve member, hydraulic operating means for the second valve member controlled by the first valve member, a stop member for preventing a predetermined operation of the second valve member by the hydraulic means when said stop member is in operative position, said stop member being associated with the first valve member and operable thereby, and an electric switch arranged to be operated by the second valve member upon operation thereof on release of the stop member.

---

**2,388,717**
**DRAWSTRING FASTENER**
**John H. Talbott, United States Army, and William R. Christensen, United States Army, Lawrence, Mass.**
**Application September 14, 1944, Serial No. 554,134**
**7 Claims. (Cl. 2—270)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

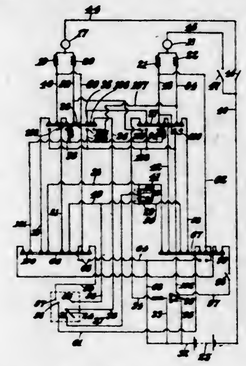


1. A garment containing a closure for a body portion comprising a hem provided with two apertures encircling a garment opening, two cooperating draw-strings enclosed therein, each draw-string fastened at one end to the hem adjacent the aperture from which the respective draw-string emerges, said apertures being on substantially opposite sides of the garment opening, the unfastened end of each draw-string emerging through its respective aperture.

---

**2,388,718**
**AIRSCREW**
**Frederick Metcalf Thomas, North Adams, Mass., and Peter Ralph Price, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company**
**Application March 16, 1942, Serial No. 434,976**
**In Great Britain April 30, 1941**
**9 Claims. (Cl. 170—135.6)**

1. In an airplane, a plurality of propellers, motors to drive said propellers said motors interconnected to rotate in a predetermined speed relationship, power means for independently adjusting the pitches of the propeller blades, a governor responsive to motor speed variation, a circuit including said governor and power means and closable by said governor to automatically operate the power means to adjust the pitches of the propellers to give preselected constant speed, pitch-ratio-correction means, a circuit for said pitch-ratio-correction means including said power means, a switch in the governor-controlled circuit, and means in the pitch-ratio-correction circuit for opening said switch when the pitch-ratio-correction circuit is closed by said pitch-ratio-correction means.



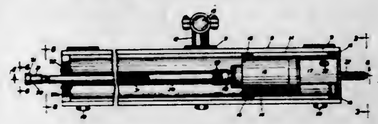
---

**2,388,719**
**SOLIDIFIED UNSTABLE COMPOUNDS**
**Sol B. Wiczer, Washington, D. C.**
**No Drawing. Application April 9, 1942, Serial No. 438,330**
**8 Claims. (Cl. 44—7)**

1. A hydrocarbon motor fuel containing hydrocarbons having a boiling point within the gasoline range and a minor proportion of lead tetra-ethyl, solidified by lecithin present in an amount greater than its solubility in the fuel at normal temperatures and sufficient to gel the fuel.

---

**2,388,720**
**DRILLING APPARATUS**
**Marcus G. Wright, Denver, Colo., assignor of thirty-five one-hundredths to Thomas P. Campbell and thirty-five one-hundredths to W. Myron Owen, both of Denver, Colo.**
**Application October 5, 1942, Serial No. 460,828**
**18 Claims. (Cl. 255—47)**

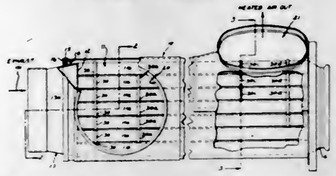


1. Drilling apparatus comprising a hollow casing, a drill unit including a drill motor mounted in said casing for movement lengthwise thereof, a shaft connected with the motor drive shaft for conjoint rotation therewith and extending outside the casing, a drill bit on the end of the drill shaft, a roller chain secured to said casing longitudinally thereof and a pair of sprockets mounted for conjoint rotation on said unit and engaging said chain, said chain and said sprockets being so constructed and arranged that the said sprockets upon rotation alternately reach their positions of full engagement with the rollers of said chain, a high torque motor for driving said sprockets and mounted on said unit with the drill motor for conjoint movement lengthwise of the casing, a reversing switch carried on said unit, a stop member adjacent each end of the casing in the path

of the reversing switch for limiting the range of travel of said unit, a circuit inclusive of the reversing switch, the drill motor and the high torque motor, and means extending into the casing for connecting said circuit with a source of electric energy.

---

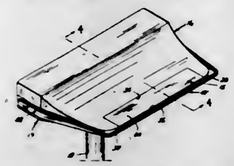
**2,388,721**
**HEAT EXCHANGER**
**Gilbert E. Clancy, Los Angeles, Calif., assignor to Drayer & Hanson, Incorporated, Los Angeles, Calif., a corporation of California**
**Application June 16, 1943, Serial No. 490,972**
**1 Claim. (Cl. 257—236)**



In a heat exchanger, the combination of an elongate external casing having inlet and outlet openings for one fluid near its opposite ends so that the fluid flows longitudinally in the casing between said openings, said inlet and outlet openings entering a side of the casing on axes transverse of the casing and tube lengths, an assembly of laterally spaced tubes extending longitudinally through the casing to carry the other fluid, and a baffle formation extending in a plane transverse of the tube lengths within the projected area of one of said openings, said baffle formation being composed of localized external enlargements of the walls of a contiguous tube group comprising less than the whole number of tubes, the several localized enlargements lying in said transverse plane and co-operatively forming a baffle restriction of the inter-tube passages over a baffle area in said plane which is less than the total area occupied by the whole tube assembly and which lies at that side of the casing which the opening enters.

---

**2,388,722**
**RAZOR**
**Hilliard H. Clein, New York, N. Y.**
**Application November 25, 1944, Serial No. 565,069**
**10 Claims. (Cl. 30—69)**



1. In a safety razor, a blade comprising at least one cutting edge portion and a body portion; two coacting blade holding members each comprising a substantially U-shaped frame having forwardly extending legs the inner lateral sides of which flank the lateral edges of the blade and the bight of which constitutes a holding bar in each member extending between the said legs, said bars being in engagement only with the upper and lower surfaces, respectively, of the said body portion of the blade throughout the extent thereof, whereby the cutting edge portion is left entirely exposed, the forward edge of each of the bars being straight and parallel to the front edge of the blade and spaced rearwardly from the forward edges of the said legs, said forward edges being substantially in alignment with the front edge of the blade; guard means mounted upon one of said frames and extending along and in adjacent relation to the cutting edge of the blade between the said legs; and means for detachably securing together the two said holding members and the blade therebetween.

---

**2,388,723**
**METHOD OF MAKING ENAMELED COOKING UTENSILS**
**Robert S. Cobb and Walter B. Moore, West Lafayette, Ohio, assignors to The Moore Enameling & Manufacturing Company, West Lafayette, Ohio, a corporation of Ohio**
**Original application April 23, 1941, Serial No. 389,910. Divided and this application February 26, 1943, Serial No. 477,238**
**2 Claims. (Cl. 117—66)**



1. The method of coating a steel cooking utensil which comprises dipping the utensil in enamel to apply a uniform coat on the interior and exterior surfaces thereof, wiping the enamel from the exterior bottom surface of the utensil, heating the utensil to dry the enamel and then scraping the exterior bottom surface to eliminate scale and dried enamel particles, applying a copper sulfate coating solution to said surface by means of a sponge and passing the utensil through an oven which will vitrify the enamel and form a copper oxide layer, which layer is then fused to said bottom surface.

---

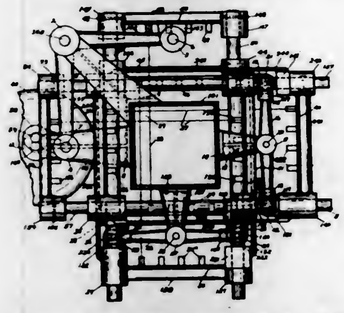
**2,388,724**
**WIRE CONNECTOR**
**Emanuel Cornelia, Lombard, Ill.**
**Application October 4, 1943, Serial No. 504,928**
**3 Claims. (Cl. 173—324)**



1. A wire connector comprising a member provided with opposed flanges having their inner sides curved to provide wire clamping faces, and a second member located between the flanges and having curved sides providing wire clamping faces confronting said first clamping faces, the second member having a bore for the reception of the ends of the wires to be connected and the clamping faces of the members being relatively spaced to receive therebetween loops formed in the wires, the clamping faces of the respective members being eccentrically related and the members being rotatable one with relation to the other to allow the clamping faces to be moved into wire holding or wire releasing position, and the ends of the flanges being relatively spaced to provide slots for the reception of those portions of the wire beyond the loops.



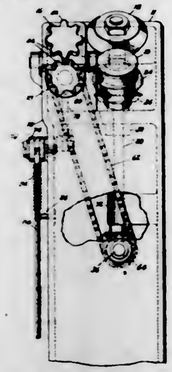
**2,388,725**
**SLICING MACHINE**
**Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa**
**Application February 9, 1942, Serial No. 430,037**
**10 Claims. (Cl. 146—78)**



1. A slicing machine comprising a conduit to receive and transmit the material to be cut, reciprocating driving means, a rectangular blade frame including side rods with crossbars united thereto and having one end supported by such driving means, arranged for travel transversely of the conduit, a second blade frame having side and end bars and carrying bearing blocks slidingly mounted upon the side rods of the first frame, a lever support or bracket united to the conduit, a lever centrally pivoted upon the support having one end pivotally united to a crossbar of the first frame and its other end pivotally united to one of the bearing blocks so arranged that when the first frame is driven in either direction, the second frame will be driven in the opposite direction, and sets of spaced blades mounted longitudinally in the frames respectively in alternation.

---

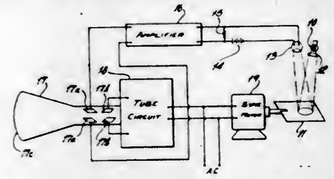
**2,388,726**
**BACK PART FORMING MACHINE**
**Emery R. Davis, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application September 25, 1943, Serial No. 503,757**
**9 Claims. (Cl. 12—51)**



1. In a machine for operating on flat backpart blanks, means for flanging the lower marginal portion of the blank, means for progressively corrugating the flange, and operator-controlled means for rendering the corrugating means ineffective at will during the operation of the flanging means.

---

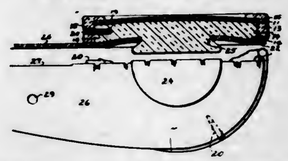
**2,388,727**
**GLOSSMETER**
**Edward C. Dench, South Orange, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio**
**Application May 29, 1942, Serial No. 445,104**
**2 Claims. (Cl. 88—14)**



1. A system for comparing the reflection characteristics of a plurality of substantially flat surfaces, which comprises means to support samples having flat surfaces for rotation about an axis, said samples being supported equidistantly from said axis with one pair of opposite edges of each sample parallel to said axis, said samples being arranged immediately adjacent to one another along said opposite edges to form a continuous light-reflecting track, means for rotating the sample-supporting means about said axis, a light source for successively illuminating said samples as they are rotated, light-responsive means arranged to receive the light successively reflected from said samples as they are rotated, an oscilloscope, means to cause the oscilloscope beam to deflect in synchronism with the rotation of said samples about said axis, and means connecting the light-responsive means and the oscilloscope to deflect the oscilloscope beam at right angles to its synchronous deflection in accordance with the light received by said light-responsive means, the sweep frequency of said oscilloscope beam being synchronized with the rotation of said samples so that the curves traced on the oscilloscope screen as the samples are successively rotated are simultaneously visible.

---

**2,388,728**
**BADGE**
**John A. Dondero, Brooklyn, N. Y.**
**Application October 9, 1942, Serial No. 461,374**
**1 Claim. (Cl. 40—1.5)**

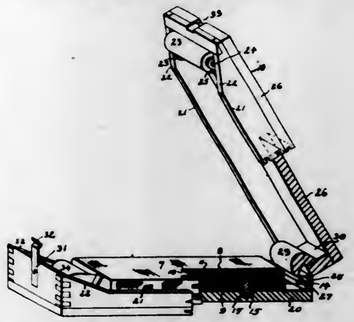


A badge comprising a circular frame of yieldable material open at its front and back and having an inwardly extending annular flange at its front, a circular disc of yieldable material of a diameter adapting it to fit snugly in said frame and provided at its center with an integrally formed rearwardly extending extension constituting a button and surrounded by an annular depression, said disc having its front face slightly curved diametrically to provide a convexed sur-

face, a thin sheet of transparent pliable material covering the front face of said disc and having marginal portions clamped between the disc and said flange, an identifying sheet between said disc and said transparent sheet, said frame having openings formed radially therethrough and said disc being formed with radial sockets for registering with the radial openings of the frame, securing pins passing through the openings of said frame and into the sockets of said disc to hold the disc in the frame, and said disc and said frame having adjoining marginal edges of their rear faces formed with notches registering when the openings and the sockets are aligned for insertion of the pins.

---

**2,388,729**
**INK PAD AND SPREADER ASSEMBLY**
**John A. Dondero, Brooklyn, N. Y.**
**Application December 28, 1942, Serial No. 470,390**
**7 Claims. (Cl. 91—54.5)**

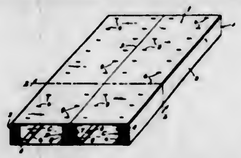


1. In an ink pad and spreader assembly, a container comprising a bottom section consisting of a bottom, side and end walls, the one end wall being of greater height than the other and the adjacent end portions of the side walls increasing gradually in height to terminate in the higher end wall, a complementary top section consisting in a top, side and end walls, the one end wall and the adjacent end portions of the side walls thereof being respectively reduced and tapered to compensate for and cooperate with the higher end wall and the adjacent portions of the side walls of the bottom section, a roller rotatably supported between the tapered portions of the side walls of said top section to project below the tapered portions and adapted to be received between the higher portions of the side walls of the bottom section when the top section is applied to the latter, an inking pad removably applied to the bottom section and having portions thereof projecting above the lower portions of the side walls of said bottom section, the ends of said pad being spaced from the end walls of said bottom section, and means for detachably hinging the end of the top section opposed to that carrying said roller to the lower end wall of the bottom section.

---

**2,388,730**
**PORTABLE PLATFORM FOR LIFT TRUCKS**
**Clifford D. Fallert, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland**
**Application June 10, 1944, Serial No. 539,768**
**4 Claims. (Cl. 248—120)**

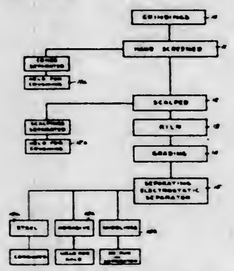
1. A pallet for a lift truck comprising a tubular outside casing of corrugated board or the like including spaced upper and lower decks and side walls connecting said decks, and side and center sill assemblies secured within said tubular outside casing between said upper and lower decks with the side sill assemblies disposed alongside of said



side walls, each of said sill assemblies comprising a multiplicity of strips of corrugated board or the like secured together for mounting in said tubular outside casing as a complete pre-assembled unit.

---

**2,388,731**
**GRINDING DUST SEPARATION**
**Alexander L. Feild, Towson, Md., assignor to Rustless Iron and Steel Corporation, a corporation of Delaware**
**Application September 18, 1942, Serial No. 458,911**
**1 Claim. (Cl. 209—127)**

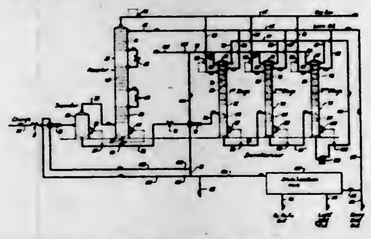


In the recovery, from stainless steel grindings, the steel containing 10% to 35% chromium, with or without nickel and other alloy additions, such grindings comprising caked and loose particles, the steel to be recovered being in such pure form as to be suitable for remelting, the art which includes screening the loose dust particles from the caked dust particles; drying the screened loose particles; grading the dried particles on screens of approximately 20, 34, 54 and 64 mesh sizes into at least four groups of individual average particle size; separating the graded particles of each group on an electrostatic separator; crushing the caked particles of grinding dust and drying, grading and individually electrostatically separating the crushed material; and combining the several groups of separated stainless steel particles.

---

**2,388,732**
**EXTRACTING APPARATUS**
**Karl Finsterbusch, Scarsdale, N. Y.**
**Application March 29, 1940, Serial No. 326,587**
**1 Claim. (Cl. 196—11)**

Apparatus for obtaining a hydrocarbon liquid of desired volatility from a mixture of gaseous vaporous hydrocarbons comprising in combination; means for cooling the mixture by indirect heat exchange with a colder fluid medium to a condensing temperature; means forming a series of flash chambers; means for conducting condensate from said cooling means to a first chamber of said series; means for cooling the condensate in transit to said first chamber; means for conducting condensate from a preceding to a succeeding chamber of said series; means for supplying absorption medium to each chamber of said series; cooling means in each chamber; means in each chamber of said series providing a



tortuous path of flow for the absorption medium and evaporation products about the cooling means therein; means for conducting non-liquid evaporation products from each said chamber; and, means for conducting condensate from the final chamber of said series to said condensate cooling means for use as the cooling medium therein.

---

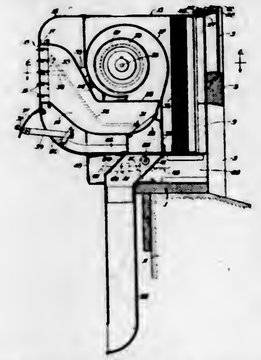
**2,388,733**
**IMPULSE SWITCHING AND CONTROL MECHANISM**
**Paul E. Fischler and John Nathansohn, Buffalo, N. Y.**
**Application July 21, 1942, Serial No. 451,804**
**2 Claims. (Cl. 177—353)**



1. A selective system responsive to different series of impulses of different number in each series, comprising a plurality of slow to operate relays, a fast operating relay, each of said slow to operate relays having means for closing a locking circuit for its relay when it is operated and the fast operating relay having means for opening the locking circuits of the slow to operate relays when the fast operating relay is operated, a movable switch arm and cooperating contacts, a circuit connection from one of said contacts to the fast operating relay whereby it will operate when the movable switch arm moves over said one contact, circuit connections from succeeding contacts to respective said slow to operate relays, means responsive to individual impulses of a series for moving said movable arm for each impulse a step over said contacts to thereby operate said fast to operate relay in response to any series of impulses and operate one of said slow to operate relays corresponding to the contact engaged by the movable arm at the end of the series of impulses, means operative a predetermined period after the termination of the series of impulses to return said arm over the contacts to normal position and means operative during the return movement to render fast operative relay inoperative when the arm engages the contact corresponding to the fast operating relay upon its return movement.

---

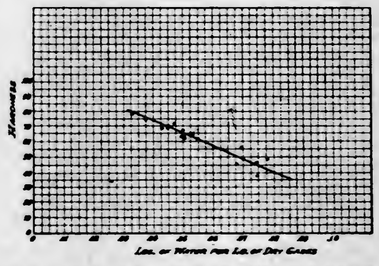
**2,388,734**
**WINDOW VENTILATOR**
**Donald S. Funk, Oak Park, Ill.**
**Application December 22, 1941, Serial No. 423,937**
**7 Claims. (Cl. 98—94)**



1. In a window ventilator of the type comprising a housing, a blower arranged therein to receive air from outside the window through the housing and to blow it into the room to be ventilated, a duct arranged in said housing to discharge through the front thereof air delivered by said blower, the combination of a second duct for discharge from said blower to either of the hereinafter mentioned other ducts, a damper operable for connecting said first mentioned and second ducts alternatively to the blower, an exhaust duct, a duct for discharge against a heat radiator, and a damper operable for connecting said last two mentioned ducts alternatively to said second duct.

---

**2,388,735**
**METHOD OF DRYING PELLETED CATALYST**
**Wright W. Gary, Los Angeles, and Robert B. Secor, South Gate, Calif., assignors to Filtrol Corporation, Los Angeles, Calif., a corporation of Delaware**
**Application July 3, 1943, Serial No. 493,490**
**9 Claims. (Cl. 34—31)**



7. A method for drying pelleted catalyst, which comprises passing a stream of hot gases over

moist pellets, and removing moist gases from the pellets and controlling the factors of temperature and detention time, draft and moisture content of the end gases so that the moist gases which are removed from the pellets contain less than about .09 pound of water per pound of dry gas.

---

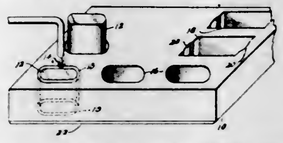
**2,388,736**
**BOOKMARK**
**Louis Germain, Brooklyn, N. Y.**
**Application February 19, 1944, Serial No. 523,156**
**3 Claims. (Cl. 116—119)**



1. A detachable book mark comprising superimposed narrow leaves joined at one end by a yieldable connection, the leaves being arranged to clasp at least two pages of a book, and a flat disc portion upon one of the leaves and extending outwardly beyond the sides of said leaf a distance at least equal to the width of the leaves whereby the opposite leaf can be turned to a position substantially parallel with the edge of a page while a substantial part of the disc portion remains under the page with which it is associated.

---

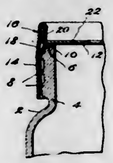
**2,388,737**
**FABRICATION OF ELECTRIC CHUCKS**
**Daniel F. Gotha, Worcester, Mass., assignor to O. S. Walker Co. Inc., Worcester, Mass., a corporation of Massachusetts**
**Application January 15, 1944, Serial No. 518,312**
**4 Claims. (Cl. 29—155.5)**



1. A method of fabricating chucks comprising removing cores from a plate in a predetermined pattern in the plate, securing the plate and the cores to a bottom plate, with the cores in spaced relation to the walls of the holes formed by the removal of the cores, and applying electric coils surrounding the cores.

---

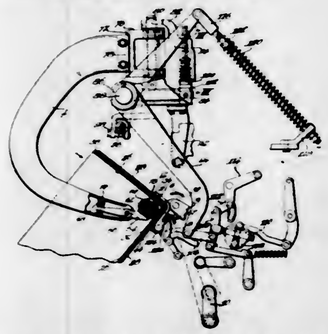
**2,388,738**
**CONTAINER CLOSURE**
**Arne Gudheim, Winchester, Mass., assignor to Lever Brothers Company, Cambridge, Mass., a corporation of Maine**
**Application February 8, 1944, Serial No. 521,495**
**8 Claims. (Cl. 215—38)**



1. In combination with a container having a neck presenting a flat upwardly facing surface and provided with a bead projecting outwardly from said neck below said surface, means for sealing said container comprising adhesive material located on the upwardly facing surface of said neck, a diaphragm formed of flexible sheet material and of greater diameter than said neck, said diaphragm being centered with respect to said neck and having sealing contact with said adhesive, the marginal portions of said diaphragm extending downward over said bead, and a slip cover having a portion thereof bearing against the opposite face of that portion of said diaphragm which engages said adhesive and frictionally retaining the downwardly extending portions of the diaphragm between the slip cover and said bead.

---

**2,388,739**
**SEWING AND BINDING MACHINE**
**Otto R. Haas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application November 15, 1943, Serial No. 510,279**
**21 Claims. (Cl. 112—62)**



1. In a machine for attaching a binding strip to the frame of a bag or like article constructed with a side unit having an angularly bent portion and an end piece connected along its edge to form a jointed corner with the side unit, the combination with attaching devices, a work support having angularly disposed surfaces to engage a jointed corner externally, and means for guiding a binding strip with its edges in angular relation to each other against the faces of the corner to enable attachment of the strip to said faces, of means acting on the binding strip at the point of attachment to distribute evenly the fullness along the end piece engaging edge of the strip while the other angularly disposed edge of the strip is being wrapped about a bend in the side unit of the bag frame.

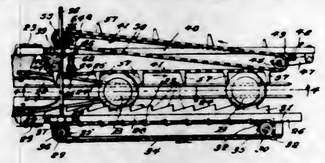
---

**2,388,740**
**BEET CLEANER**
**James Andrew Harwood, Deaver, Wyo.**
**Application April 18, 1944, Serial No. 531,613**
**5 Claims. (Cl. 15—3.21)**

1. In a beet harvester, cleaning mechanism including a hanger bar and a cross bar spaced transversely from each other, upper and lower bars extending rearwardly from the hanger bar, crank shafts rotatably mounted vertically adjacent front and rear ends of said bars, boards carried by cranks of said crank shafts and having longitudinal movement in circular paths during rotation of the crank shafts, said boards having teeth upon their inner side faces presented rearwardly of the boards, a bar extending



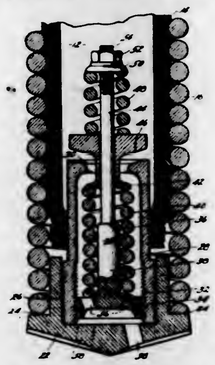
rearwardly from the cross bar, a sprocket chain mounted for endless movement longitudinally of the said cross bar and having arms extending



laterally from the chain for engaging back of beets between the chain and the boards and moving the beets rearwardly, and actuating means for the chain and the crankshafts.

---

**2,388,741**
**HYDRAULIC DRILLING DEVICE**
**Russell R. Hays, Lawrence, Kans.**
**Application April 29, 1944, Serial No. 533,371**
**5 Claims. (Cl. 255—4.4)**

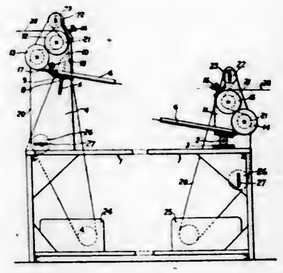


5. In well drilling mechanism, for drilling lateral holes from well bore, a fluid pressure supply conduit, a tubular wall constituting a longitudinally expansible and transversely flexible chamber communicating with and secured to said conduit, a drill bit carried on the free end of said chamber, a valve seat and valve carried by the drill bit, said valve being responsive to the fluid flow between said valve and valve seat to move said valve to the closed position, resilient means normally urging said valve to the open position whereby the pressure is intermittently varied to cause reciprocation of said drill bit, and adjustable means to vary the frequency of said valve to conform with the natural frequency of the expansible chamber whereby they are brought into resonance.

---

**2,388,742**
**SHRINKING OF TEXTILE YARNS AND LIKE MATERIALS**
**Frank Brentnall Hill and William Harry Kimpton, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware**
**Application March 27, 1942, Serial No. 436,392**
**In Great Britain April 9, 1941**
**4 Claims. (Cl. 8—132)**

1. A method of shrinking unassociated cellulose derivative textile yarns comprising feeding the yarns at a controlled rate into the upper end of a sloping bath containing a liquid shrinking agent for the yarns and withdrawing the yarns from the lower end of said bath at a controlled rate that is lower than the rate of feeding, the



slope of said bath being such as to cause said agent to flow under gravity with substantially the same mean speed as the yarns, so as to allow said yarns to shrink while substantially free from tension due to contact with said shrinking agent.

---

**2,388,743**
**MANUFACTURE OF DIBENZANTHRONE COMPOUNDS**
**Edward T. Howell, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application February 23, 1944, Serial No. 523,577**
**4 Claims. (Cl. 260—357)**

4. The process of ring-closing 2,2'-dibenzanthronyl to dibenzanthrone which comprises dissolving the 2,2'-dibenzanthronyl in sulfuric acid of from 80% to 90% strength and heating at temperatures of from 115° to 140° C. in the presence of arsenic acid.

---

**2,388,744**
**SHOE CONSTRUCTION**
**Walter Hoy, Pine Lawn, Mo.**
**Application November 12, 1942, Serial No. 465,308**
**3 Claims. (Cl. 36—11.5)**



3. A shoe comprising a first unit including a rigid sole of wood or like material, said sole having a groove around the edge thereof and providing a surface within the limits of the groove, and a cushion pad fixed to the sole within the said surface, and a second unit comprising an inner sole part adapted to cover the cushion pad and having edges extending beyond the limits thereof, and upper parts having lower edges attached to the edges of the inner sole part to form a unitary shoe upper having securing edge means insertable into the slot of the sole, and means securing the securing edge of the unitary upper in the groove of the sole with the inner sole part overlying and confining the cushion pad.

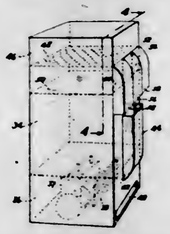
**2,388,745**
**PAPER TWINE AND THE METHOD OF PRODUCING THE SAME**
**Morris Katz, Bronx, N. Y.**
**Application March 26, 1943, Serial No. 480,712**
**2 Claims. (Cl. 57—155)**



1. A cord product of the class described comprising a twine body, said body being composed of fine paper strands twisted together in forming said twine, other members incorporated with and bound in said paper strands, and one of said members comprising a strip of greater width than the width of said paper strands.

---

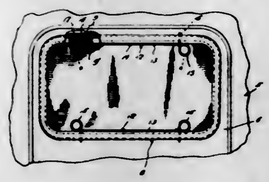
**2,388,746**
**CABINET FOR FOODS OR THE LIKE**
**Shepherd Knapp, Jenkintown, Pa.**
**Application January 20, 1943, Serial No. 472,927**
**1 Claim. (Cl. 62—116)**



In combination with a refrigerator having its liquefying mechanism cooled by a current of air flowing thereover and producing warm currents of such cooling air returning freely to the atmosphere, a chamber for the reception of foods or the like, and means providing access of some of said warm air to the interior of the chamber by reason of convective flow thereof without cutting off the free flow of air from the cooled mechanism to the atmosphere, said chamber being substantially closed at its top and sides to provide a trap for said warm air.

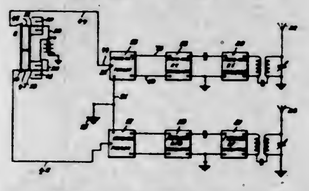
---

**2,388,747**
**AUTOMOBILE WINDOW SCREEN**
**Frank Kolarik, Cicero, Ill.**
**Application August 25, 1944, Serial No. 551,178**
**4 Claims. (Cl. 160—369)**



1. A screen of the character described comprising a frame, a foraminous covering filler for the frame, said frame having openings therein, and spring members projecting through the openings to serve as detents in holding the frame within a window opening.

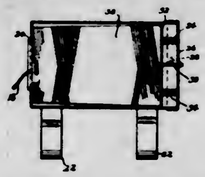
**2,388,748**
**REMOTE RADIO CONTROL**
**Karl A. Kopetsky, Chicago, Ill.**
**Application October 18, 1940, Serial No. 361,654**
**12 Claims. (Cl. 250—10)**



1. In a radio transmitting station for the remote control of the steering mechanism of distant apparatus, two pulsers, each of said pulsers including a solenoid, a source of electric current, means to selectively connect each of said solenoids with said current source, a reciprocatable magnetic core within each of said solenoids and arranged to be attracted by said solenoid, a spring biasing said core against the attracting force of said solenoid, a rotatably mounted angle lever, said angle lever being arranged to be rotated by the impact of said core when said core is attracted by said solenoid, a spring biased lever on said angle lever adapted to move away from said angle lever a predetermined distance under the influence of its inertia when said angle lever is rotated, a fixed contact, another contact on said movable lever, said two contacts being adapted to contact each other upon energization of said solenoid for a predetermined length of time.

---

**2,388,749**
**CORD HOLDER FOR LINE THROWING GUNS**
**Alfred T. La Pierre, Worcester, Mass., assignor to Harrington & Richardson Arms Company, a corporation of Massachusetts**
**Application December 19, 1944, Serial No. 568,853**
**4 Claims. (Cl. 242—132)**



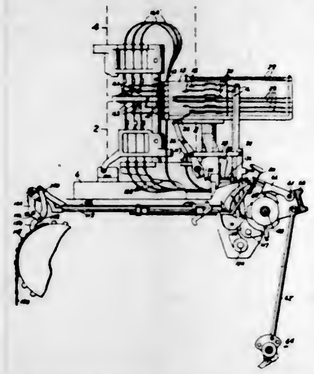
1. A cord holding canister for line throwing guns, said canister having an aperture therein at its forward end for paying out the cord, said canister being open at its rear end, a cover for the rear end of the canister, and means associated with said cover for maintaining a spool of cord in generally fixed position in the canister.

---

**2,388,750**
**KNITTING MACHINE**
**Robert H. Lawson and Paul W. Bristow, Laconia, N. H., assignors to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts**
**Application October 1, 1942, Serial No. 460,278**
**29 Claims. (Cl. 66—131)**

1. A knitting machine comprising a series of needles, a plurality of means for presenting yarns to said needles, and yarn changing devices, said yarn changing devices comprising a main selector element, means for moving said selector element to various positions to determine yarn changes, and an auxiliary selector element movable independently of the main selector element

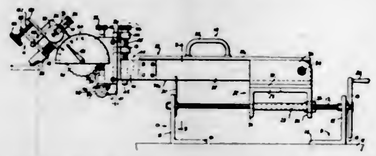




to effect auxiliary yarn changes, said auxiliary selector element being movable with the main selector element so that, upon operation of the main selector element to effect a yarn change, the auxiliary yarn is removed from feeding position.

---

**2,388,751**
**DIAMOND POLISHING DEVICE**
**Baruch Levy, New York, N. Y.**
**Application May 12, 1944, Serial No. 535,259**
**3 Claims. (Cl. 51—229)**



3. In a diamond cutting machine, a base, a screw on said base, a handle on the screw for rotating the same, a support slidably mounted on the base screwed thereto, means on the support engaging the screw on the base, an arm pivoted to said support, said arm having an outwardly extending web, and a stop on said base formed with a notch to receive said web, and a diamond holder mounted on said arm, said screw-threaded means on the support comprising a pair of separable half-nuts engaging the screw on said base.

---

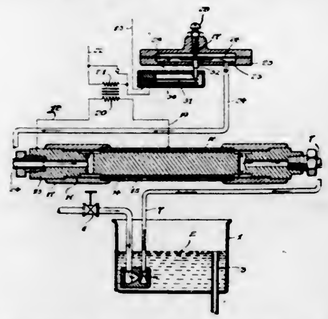
**2,388,752**
**BUCKLE**
**Alexander Loos, Jr., Williamsport, Ind.**
**Application September 18, 1944, Serial No. 554,673**
**1 Claim. (Cl. 24—163)**



A buckle comprising a substantially U-shaped member including a pair of legs for straddling one end portion of a belt, a rivet passing through the free ends of said legs for pivotally attaching said member to said one end portion of a belt, one of said legs having a longitudinal slot therein, a pair of loops 7 slidably mounted on said one of said legs for slidably receiving the other end portion of the belt, a coil spring slidably mounted on said one of said legs between said loops and compressible on said leg, said spring being of rectangular outline when viewed in cross section and said spring having one end abutting loosely against one of said loops, and a headed stud at the other end of said spring, said stud being integrally connected to said spring and extending laterally at a right angle to the longitudinal axis of said spring, and said stud extending through said slot for engagement in a selected opening in a series of openings in said other end portion of the belt, whereby the belt is automatically adjusted for providing maximum comfort at all times.

---

**2,388,753**
**APPARATUS AND METHOD FOR SANITIZING**
**Walter L. Mallmann, East Lansing, and Clifford H. Kain and Richard J. Schaefer, Detroit, Mich., assignors to Sanozone Corporation, Detroit, Mich., a corporation of Michigan**
**Application August 2, 1939, Serial No. 288,030**
**5 Claims. (Cl. 21—58)**



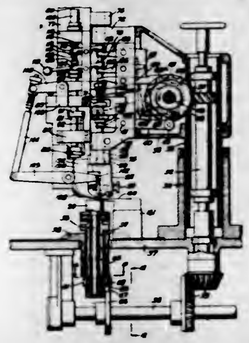
2. Sanitizing apparatus comprising a tank adapted to receive the article to be sanitized and adapted to receive a water solution of ozone, a source of ozone, a source of water, a mixing nozzle positioned in the tank below the level of the said solution, means connecting the said nozzle with the source of ozone and with the source of water under pressure, the said nozzle having a small orifice opening directly into said tank whereby a small, fast moving stream of water and ozone can be projected directly into the water solution below the level thereof, and means positioned remote from the said nozzle for continuously removing some of the solution from the tank.

---

**2,388,754**
**MACHINE FOR WELDING**
**Frank Martindell, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application July 10, 1942, Serial No. 450,409**
**8 Claims. (Cl. 219—4)**

4. In a machine for electrically welding a piece of contact metal to a switch spring, means for clamping an end portion of a continuous strip of

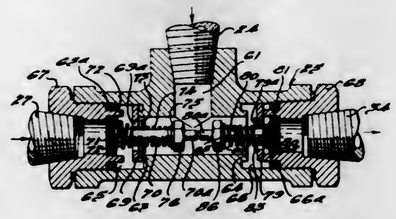
contact metal to the switch spring, means for severing the clamped end portion from the con-



tinuous strip, and means for retracting the continuous strip from the clamped severed portion.

---

**2,388,755**
**HYDRAULIC LIFT MECHANISM**
**Stewart B. McLeod, Detroit, Mich., assignor to Motor State Products Company, Ypsilanti, Mich., a corporation of Michigan**
**Application July 16, 1940, Serial No. 345,804**
**5 Claims. (Cl. 60—52)**

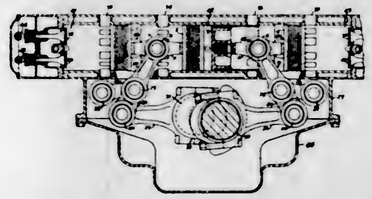


3. In a mechanism for convertible automobile tops or the like, a hydraulic actuating system comprising a double acting piston motor having a single piston rod to directly raise or lower said top, a reversible electric motor, a liquid pump means connected to operate said motor, a reversing electric switch as the sole control for said electric motor and pump, a compensating shuttle valve unit operated automatically and only by the pressures due to liquid flow and connected across said pump connections, a liquid reservoir positioned above said valve unit and connected to said valve unit to be selectively communicated with the then low pressure side of the pump during pump operation, said shuttle valve unit including resilient valve centering means and cooperating means to provide upon non-operation of the pump means a by-pass leakage through said valve unit in its centered inoperative position to permit direct and slow manual actuation of the top and its motor piston.

---

**2,388,756**
**MULTIPLE OPPOSED PISTON ENGINE**
**Willis Gordon Meyers, Elmwood Park, Ill.**
**Application April 21, 1943, Serial No. 483,891**
**15 Claims. (Cl. 123—51)**

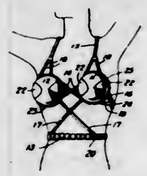
2. In an engine, pump, or compressor, the use of four pistons reciprocably operating in one cylinder, each pair of pistons being connected together by a strut member, said strut member being pivotally connected, at substantially its midpoint, to one end of a walking beam, there being thus two of said walking beams for four pistons, the opposite ends of the said walking beams being suitably connected, through connecting rods, to a plurality of crankshafts, said



walking beams being also pivoted, at substantially their mid-points or thereabouts, to link members, said link members being in turn pivotally mounted at their opposite ends upon stationary pins so as to allow said walking beams to oscillate with a motion which allows the piston ends of such walking beams to move in a straight line parallel with the piston motion

---

**2,388,757**
**BRASSIÈRE**
**Alberta Miller, Indianapolis, Ind.**
**Application January 19, 1944, Serial No. 518,862**
**3 Claims. (Cl. 2—42)**

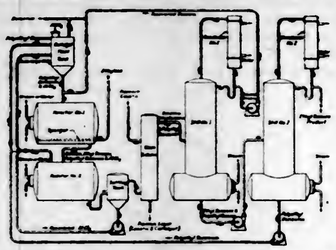


1. A brassière comprising cups to accommodate the breasts, a belt to circle the waist and spaced relatively to said cups, a pair of crossed straps interconnecting inner sides of said cups, a pair of crossed straps each connecting one of said cups to said belt at the front, a pair of shoulder straps each connecting one of said cups to the back of said belt, and side straps connected with outer sides of said cups and each extended downwardly and rearwardly and connected with said belt adjacent the lower end of a shoulder strap.

---

**2,388,758**
**PROCESS OF MAKING PRIMARY ALKYLATED BENZENES AND NAPHTHALENES**
**Edward J. Mills, Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York**
**Application December 15, 1942, Serial No. 469,061**
**11 Claims. (Cl. 260—671)**

1. In the process of making ethyl benzene by the reaction of ethylene with benzene in the presence of an aluminum chloride catalyst whereby a product containing unreacted benzene, ethyl benzene, polyethyl benzenes and the catalyst is initially obtained, the step of increasing the ethyl benzene content of the product which comprises removing the initially obtained product to a separate treatment zone and there maintaining it in liquid state and in the absence of ethylene at



an elevated temperature of from about 50° C. to about 150° C. and under its own vapor pressure for a period of at least 15 minutes.

---

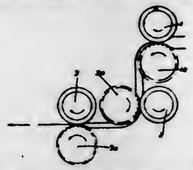
**2,388,759**
**RIDGE ROLL VENTILATOR**
**William A. Moore, Swea, Iowa**
**Application June 5, 1944, Serial No. 538,741**
**1 Claim. (Cl. 98—42)**



A ventilator for a roof ridge having an opening therein, comprising a pair of strips disposed at opposite edges of the opening, riser cleats transversely of and at intervals on the strips, links positioned in openings intermediate of said cleats for connecting the strips together and lying crosswise of the opening, and a cylindrical ventilating head crowning the opening and having edge flanges resting on the cleats terminating short of the edge thereof.

---

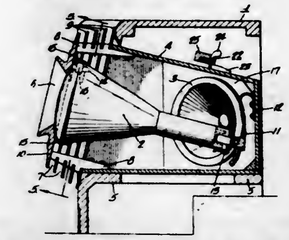
**2,388,760**
**DRAFTING MECHANISM FOR TEXTILE FIBERS**
**Joseph Noguera, Prestwich, Manchester, England, assignor to Casablancas High Draft Company Limited, Manchester, England, a British company**
**Application December 15, 1942, Serial No. 469,101**
**In Great Britain December 1, 1941**
**2 Claims. (Cl. 19—130)**



1. A drafting mechanism for textile fibers of the type in which the strand of fibers passes between each of three pairs of rollers, the intermediate pair of rollers acting as drawing rollers with respect to the preceding pair and as retaining rollers with respect to the succeeding pair, in which the rollers are arranged in such manner that the plane containing the axes of the intermediate pair of rollers is at right angles to the planes containing the axes of the preceding and succeeding pairs respectively, whereby the strand on leaving each of the first two pairs of rollers is pulled round over about a quarter of the surface of one of the rollers of each pair, after which it passes straight into the nip of the succeeding pair.

---

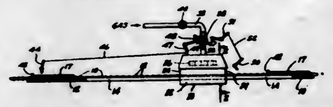
**2,388,761**
**TELEVISION APPARATUS**
**George Patterson, Jr., Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application March 30, 1944, Serial No. 528,745**
**6 Claims. (Cl. 178—5.8)**



1. In a sound and picture receiver, a cabinet for housing the component parts of said receiver, an enclosure disposed horizontally within said cabinet, said enclosure having a window at the front thereof and sound emission openings about said window, a picture tube having an image screen mounted within said enclosure with said screen arranged at said window for observation, and a sound reproducer mounted on said enclosure and arranged to propagate sounds therethrough in the general direction of said openings, whereby to give the impression that the sounds are emanating from the images produced on said screen, said enclosure being shaped to constitute an acoustic amplifier.

---

**2,388,762**
**PLATE BURNER**
**Frank T. Powers, Glen Cove, N. Y.**
**Application February 11, 1943, Serial No. 475,570**
**2 Claims. (Cl. 263—8)**



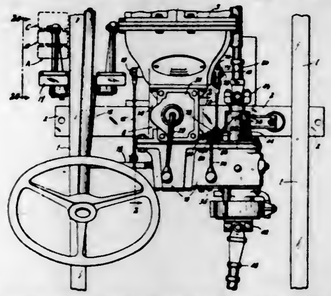
1. In a plate burner for photoengraving use, the combination of a plurality of radiant gas burners, a moving support for moving an etched and powdered plate beneath the burners, a valve controlling the supply of fuel to the burners and means operated by the moving support for controlling the valve to increase the fuel supply to the burners prior to the passage of the plate beneath the burners, and further means operated by the moving support for controlling the valve to decrease the fuel supply to the burners after the passage of the plate beneath the burners.

---

**2,388,763**
**TRANSMISSION CONTROL MECHANISM**
**Glenn T. Randel, St. Louis, Mo.**
**Application April 12, 1943, Serial No. 482,732**
**21 Claims. (Cl. 192—3.5)**

1. In control mechanism for a vehicle driving system provided with an engine clutch, with a change speed gearing having a member shiftable to two speed ratio operative positions and means for operating said clutch, said control

mechanism comprising spring means for biasing said member to one speed ratio operative position, mechanical connecting means between said clutch operating means and the shiftable member for shifting said shiftable member from said one speed ratio operative position to the other by a movement of the clutch operating means be-



yond clutch disengaging position, means for locking said shiftable member in the other position against the bias of the spring means and permitting re-engagement of the clutch by release of the operating means and without movement of the shiftable member, and means for releasing the locking means by a successive movement of the clutch operating means beyond clutch disengaging position but not such a movement as is required to establish the said other speed ratio.

---

**2,388,764**
**CELLULOSE ETHERS AND PROCESS FOR PRODUCING THE SAME**
**Frank H. Reichel and Ralph T. K. Cornwell, Fredericksburg, Va., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia**
**No Drawing. Application May 27, 1942, Serial No. 444,718. In Great Britain October 20, 1938**
**6 Claims. (Cl. 260—232)**

4. A process for making cellulose ethers, which comprises dissolving a low etherified cellulose ether containing substantially less than 0.15 ether groups per cellulose unit ($C_6H_{10}O_5$) selected from the group consisting of alkyl, hydroxy-alkyl, and carboxy-alkyl ethers in an aqueous solution of a strongly basic hydroxide at a temperature of about 15° C. and of 5 to 10% concentration, adding a compound selected from the class consisting of alkylating, hydroxy-alkylating, and carboxy-alkylating agents slowly thereto with gradual rise in temperature but control thereof so that it does not exceed 70° C., continuing the reaction until a cellulose ether is produced having about 0.15 ether group per unit of cellulose, being soluble at 0° C. in an aqueous solution of sodium hydroxide having a concentration of about 2% but insoluble in water, and thereafter discontinuing the reaction.

---

**2,388,765**
**TERPENE ETHERS**
**Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application June 17, 1943, Serial No. 491,219**
**13 Claims. (Cl. 260—611)**

5. An ether having the formula T—O—R, in which T is a terpene radical and R is a radical of an unsaturated aliphatic alcohol containing not more than six carbon atoms.

**2,388,766**
**HANDCUFF**
**Alfred Ruttimann, Worcester, Mass., assignor to Harrington & Richardson Arms Company, Worcester, Mass., a corporation of Massachusetts**
**Application May 5, 1944, Serial No. 534,278**
**9 Claims. (Cl. 70—16)**



1. In a device of the class described, a frame, a housing thereon, a swingable bow having a toothed portion receivable in the housing, a toothed element in the housing, key-operated means including an eccentric to move the toothed element selectively to or from the path of the bow teeth, resilient means interposed between the toothed element and said first named means, said resilient means being effective to yieldingly hold the element with its teeth in ratcheting engagement with the teeth of the bow and selectively being tensioned to bow-locking condition, by the eccentric, the latter being engageable directly with the toothed element to positively move the latter out of engagement with the bow to unlock the same.

---

**2,388,767**
**SOAP COMPOSITION**
**Leopold Safrin, Philadelphia, Pa., assignor to Wilson & Co., Inc., a corporation of Delaware**
**No Drawing. Application April 1, 1943, Serial No. 481,456**
**8 Claims. (Cl. 252—121)**

1. A soap composition comprising essentially an alkali metal soap of a tallow soap stock and small amounts of hydrogenated rosin and a purified, substantially salt-free alkali sulfonate of a mixture of hydrocarbons having a predominant portion of straight chain saturated aliphatic hydrocarbons of 12 to 14 carbon atoms in the molecules, the amount of said sulfonate varying from about ½ to 1½% by weight and the said rosin from about 1 to 5% by weight.

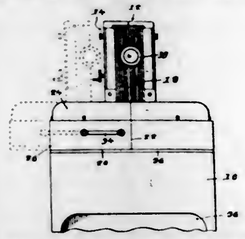
---

**2,388,768**
**PHOTOGRAPHIC DUPLICATING AND PROJECTION MACHINE**
**Lester M. Severeid, Pine River, Minn.**
**Application July 27, 1943, Serial No. 496,317**
**2 Claims. (Cl. 88—24)**

1. A detachable and removable camera and film assembly for use with a projection device, comprising a supporting member on which the camera and film assembly and the projection device are normally disposed in juxtaposition and are moveable toward and away from each other,



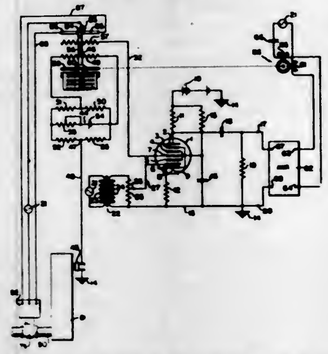
a semi-circular recess formed in the side wall of said projection device adapted to receive a circular projection on said assembly, handles on said assembly for moving said assembly into and out of operative position with said projection device, said projection device and said assembly being provided with open fronts, rear walls, top and



side walls, said open fronts and said side walls and top adapted to coact to form a light proof assembly, the supporting member having spaced parallel channels and the camera and film assembly having base flanges slidably received therein to removably attach the camera and film assembly to the support.

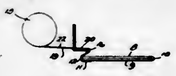
---

**2,388,769**
**MEASURING AND CONTROLLING APPARATUS**
**William L. Shaffer, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application May 25, 1943, Serial No. 488,401**
**8 Claims. (Cl. 172—239)**



1. Measuring apparatus comprising a measuring circuit and a direct current potential producing device responsive to change in magnitude of a variable condition for unbalancing said circuit to an extent corresponding with said change, an impedance in said circuit adapted to be adjusted to rebalance said circuit, phase responsive means to adjust said impedance, and a single space discharge valve supplying a single output circuit, said output circuit being connected to said phase responsive means and having an input circuit on which the measuring circuit unbalanced potentials are directly impressed in substantially unmodified form, said space discharge valve being operative to produce an alternating potential of one phase or of opposite phase in the output circuit thereof depending upon the direction of the said unbalanced potentials.

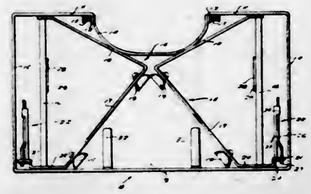
**2,388,770**
**SEALING METHOD**
**Elmer L. Stein, Milwaukee, Wis., assignor of one-third to Roman Kaczmarek and one-third to Herbert F. Johnson, both of Milwaukee, Wis.**
**Application October 25, 1944, Serial No. 560,332**
**4 Claims. (Cl. 216—62)**



1. A method of sealing edge portions of a work piece having first and second faces by delivering a web of tape having a tacky surface across a pressure foot having first and second faces and by applying a length of such tape about the work piece margin and adhering it to opposite faces of the work piece, said method consisting in pressing a first face of the work piece toward a first face of the pressure foot on which the tacky surface of a web of tape is exposed, whereby to adhere the end of said web to said first work piece face, effecting relative movement between the work piece and the pressure foot in a direction to draw an additional length of web over the first face of the foot and thence in a direction to fold said web over an edge of the foot and an edge of the work piece, and thence in a direction to sever said web on the edge of the work piece and to press the severed end of the web section thus severed between a second face of the work piece and a second face of the foot.

---

**2,388,771**
**COLLAPSIBLE BOOK REST AND HOLDER**
**Paul H. Thompson, Wheaton, Ill.**
**Application September 14, 1944, Serial No. 554,063**
**3 Claims. (Cl. 45—57)**



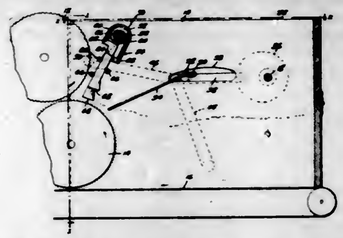
1. In a foldable book-holding rack of the class described, a main rack frame of general rectangular form provided with foldable supports and having, at its top, a swingably mounted substantially U-shaped part constituting a saddle for the book binding, and a pair of longitudinally spaced fingers projecting into the limits of the frame of the lower frame member and in alignment with said saddle to coact therewith in properly balancing and supporting the book centrally on said frame.

---

**2,388,772**
**TAMPER FOR CIGARETTE MACHINE FEEDERS**
**Ross Thompson, Durham, N. C., assignor of one-third to H. D. Armstrong**
**Application November 9, 1942, Serial No. 465,043**
**4 Claims. (Cl. 131—109)**

4. In a cigarette making machine having a rotary feed drum, a set of elongated weight bars mounted for longitudinal reciprocating movement in a path acutely inclined from the vertical and

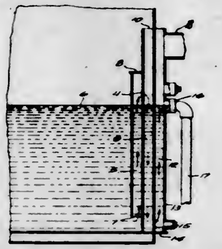
adjacent the drum, a reciprocating rake bar, and a multiplicity of tines fixed to the rake bar and



directed at a downward inclination converging toward the weight bars for movement toward and away from the drum.

---

**2,388,773**
**EVAPORATOR**
**William H. Thompson, Chatham, N. J., assignor to Davis Engineering Corporation, Elizabeth, N. J., a corporation of Delaware**
**Application June 13, 1942, Serial No. 446,955**
**8 Claims. (Cl. 202—174)**



1. In a liquid evaporator, a shell for containing the liquid to be evaporated and a system of passages communicating with the interior and exterior of the shell, the system of passages being in open communication and comprising in combination a passage extending below and communicating with the shell below the liquid level thereof, another passage communicating with said first mentioned passage at substantially the liquid level and with the interior of the shell at a point to equalize the pressure in the passages, and a further passage communicating with said second mentioned passage adjacent the level of the bottom of the shell and having an outlet substantially at the water level of the shell and at a point above said outlet open in like manner as the outlet.

---

**2,388,774**
**LAP PIN**
**John T. Tice, Atlanta, Ga.; Hedwig Tice administratrix of said John T. Tice, deceased**
**Application November 16, 1942, Serial No. 465,739**
**1 Claim. (Cl. 19—162)**



In a lap pin, a tubular body having grooves in its exterior circumferential surface extending axially from end to end of the body, said grooves being uniformly spaced circumferentially of the body so as to provide longitudinal faces having a uniform width throughout the length of the body and having a total area equal to fifty percent of the circumferential area of the body.

---

**2,388,775**
**PROCESS FOR RECOVERING SODIUM CHROMATE**
**Marvin J. Udy, Niagara Falls, N. Y.**
**No Drawing. Application January 8, 1942, Serial No. 426,045**
**6 Claims. (Cl. 23—56)**

1. In a process for recovering sodium chromate from crude sodium chromate-bearing material involving leaching of the material with an aqueous liquid to form an aqueous solution of sodium chromate and evaporation of water contained in the solution to produce solid sodium chromate, the improvement which comprises employing for leaching the crude sodium chromate-bearing material an aqueous liquid containing sodium hydroxide in solution in substantial amount but in amount insufficient to prevent substantial solution of sodium chromate of the material, and maintaining in the aqueous liquid throughout the leaching operation sodium hydroxide in such excess over the amount which might react chemically with the components of the crude sodium chromate-bearing material that a solution is produced which upon evaporation of not more than about fifty percent of the water will give a saturated solution of sodium chromate containing less than about 476 grams of sodium chromate per liter.

---

**2,388,776**
**METHOD OF MAKING MOLDS**
**Edward H. Wallace, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**Original application January 10, 1942, Serial No. 426,337. Divided and this application February 26, 1944, Serial No. 524,026**
**2 Claims. (Cl. 18—58)**



1. The method of making a mold comprising depositing a layer of resilient material from an aqueous dispersion of such material onto the surface of an article, spraying additional amounts of said dispersion and a coagulant therefor simultaneously on the exposed surface of the resilient layer to form a multiplicity of irregularly shaped projections extending therefrom, varying the relative direction of the dispersion and coagulant spray to form enlarged nodules at the tips of at least some of said projections, forming a backing of rigid material on the layer of resilient material with said projections and nodules being embedded in the rigid material to lock the rigid backing to the resilient layer, and stripping the united resilient layer and rigid backing from the article.

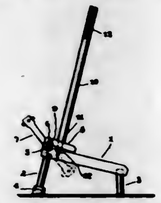
---

**2,388,777**
**EXERCISING APPARATUS**
**Jere L. Weeks, Passaic, N. J.**
**Application August 17, 1942, Serial No. 455,036**
**2 Claims. (Cl. 272—73)**

2. A device of the character described, comprising in combination, a block having a seat formed



in its upper face, a second block loosely mounted on the said first named block and having a seat in its under face, a rotatable shaft between said blocks and rotatably seated in said seats and frictionally engaged thereby, and a bar loosely inserted through said second named block and



threadedly seated in the said first named block, a collar on said bar position to engage the said second named block and a handle on said bar positioned to be grasped by the operator of the device whereby the frictional engagement of the said rotatable shaft may be varied while in operation.

---

**2,388,778**
**CRUTCH**
**John D. Wheeler, Vancouver, Wash.**
**Application June 20, 1944, Serial No. 541,164**
**3 Claims. (Cl. 135—49)**



1. A walking crutch comprising upper and lower sections, each section including telescoping tubular members, an arm rest carried by said upper section, a hand rest carried by said lower section, and means for foldably mounting said upper section relative to said lower section.

---

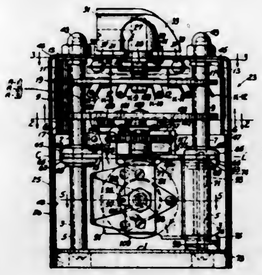
**2,388,779**
**METHOD OF TAPPING**
**Erving M. Boehmler, Madisonville, Ohio, assignor to William B. Petermann and Edmund P. Wood, as trustees**
**Application December 16, 1943, Serial No. 514,521**
**6 Claims. (Cl. 10—1)**



1. A method of tapping a blind hole which comprises filling the hole with an extrudable material and advancing a tap into the hole to cut threads therein, the filling material being extruded through the flutes of the tap and therein immobilizing the thread chips against independent movement as the tap is advanced into the hole and removing the tap and unexpelled material within its flutes from the hole.

---

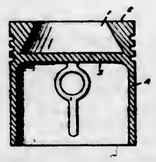
**2,388,780**
**ELECTRIC FLASHER**
**Philip H. Chase, Bala-Cynwyd, and James V. O'Neill, Willow Grove, Pa.; said O'Neill assignor to said Chase**
**Application March 21, 1941, Serial No. 384,566**
**7 Claims. (Cl. 74—142)**



1. In combination, a motor adapted to be driven from a source of power of variable intensity comprising a rapidly vibrating arm whose stroke varies with said intensity, a pawl and ratchet mechanism driven by said arm, said arm being adapted to oscillate rapidly between variable limits, and means associated with the pawl and the ratchet for preventing the pawl from moving the ratchet more than a predetermined amount for each oscillation of said pawl regardless of the intensity of the impulse or the amount of the resulting oscillation.

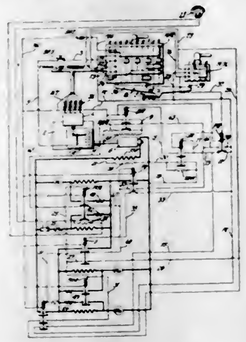
---

**2,388,781**
**MULTIFACE PISTON**
**Edward R. Dailey, Little Rock, Ark.**
**Application December 6, 1943, Serial No. 513,098**
**1 Claim. (Cl. 309—4)**



A piston of the class described comprising a pressure receiving end having a frusto-conical recess therein formed with a straight side wall and a flat bottom wall, said recess flaring inwardly from said end to provide an annular end pressure receiving face on the piston and a pressure receiving surface of maximum diameter within the piston for augmenting the annular pressure receiving face and which is spaced from said annular face uniformly.

**2,388,782**
**TRANSITION CONTROL SYSTEM**
**Richard M. Dilworth, Hinsdale, and Torsten O. Lillquist, Clarendon Hills, Ill., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application November 6, 1944, Serial No. 562,232**
**5 Claims. (Cl. 290—3)**

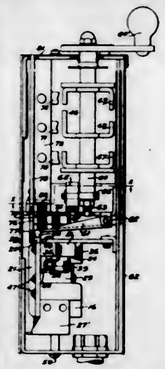


1. A traction, control and indicating system for a locomotive comprising a generating electric power plant, a plurality of traction motors supplied with power from the power plant for driving individual wheeled axles of the locomotive, power connections including motor field shunting means and motor connection transferring means between the power plant and motors for causing operation of the combined generating electric traction system in different speed and torque ranges, a load indicator included in said power connections and having a scale provided with separate and distinct divisions, each scale division indicating the most efficient operating load range of the generating electric traction system for each motor connection with and without the motor fields shunted, and indicator sensitivity varying means operable in combination with the motor field shunting means to prevent overlapping indications between the scale divisions corresponding to each of the motor circuit relations with and without the motor fields shunted whereby the locomotive may be operated at maximum efficiency in each speed and torque range by operation of the motor field and motor connection transferring means in accordance with the load indications of the indicator.

---

**2,388,783**
**SWITCH ASSEMBLAGE**
**William C. Furnas and Daniel G. Spotts, Batavia, Ill.; said Spotts assignor of his right to William C. Furnas, doing business as Furnas Electric Company, West Allis, Wis.**
**Original application October 14, 1940, Serial No. 361,082, now Patent No. 2,296,157, dated September 15, 1942. Divided and this application August 8, 1942, Serial No. 454,134**
**8 Claims. (Cl. 200—3)**

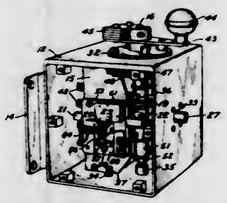
4. In combination, a frame, an overload switch mounted on said frame and having contacts for completing electric circuits through several lines, a slide for simultaneously opening all of said contacts under overload conditions in any of said lines, a reversing switch also carried by said frame for effecting opening and closing of said circuits independently of said overload switch, a cam roller operable by said reversing switch, and a lever coacting with said roller when said re-



versing switch is opened for moving said slide to restore said overload switch to closed position.

---

**2,388,784**
**SWITCH ASSEMBLAGE**
**William C. Furnas, Batavia, Edwin B. Schumacher, Aurora, and Roy S. Kercher, Naperville, Ill., assignors to Furnas Electric Company, Batavia, Ill., a partnership composed of Leto M. Furnas, William C. Furnas, Gilbert H. Hansen, and Helen R. Hansen**
**Application October 14, 1943, Serial No. 506,150**
**20 Claims. (Cl. 200—124)**

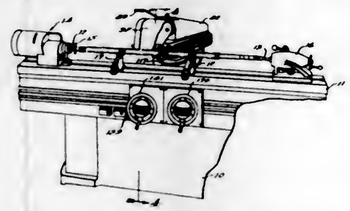


1. In combination, a casing, a controller shaft journalled for oscillation within said casing and having local outwardly projecting fingers, a contact housing disposed within said casing and having therein movable contacts normally operable by said fingers, a thermal overload device disposed within said casing and having a slide for opening some of said movable contacts under overload conditions, and means for resetting said slide independently of said controller shaft to release said movable contacts for free closing.

---

**2,388,785**
**BROACH SHARPENING MACHINE**
**Harry H. Gotberg, Detroit, Mich., assignor to Colonial Broach Company, Detroit, Mich., a corporation of Delaware**
**Application March 24, 1943, Serial No. 480,303**
**5 Claims. (Cl. 51—131)**

1. In a broach sharpening machine, a rotary grinding wheel, a machine base, means mounting the grinding wheel on the base for rectilinear movement both in a horizontal path perpendicular to the wheel axis and in a vertical path and rotary movement about two axes parallel, respectively, to the paths of rectilinear movement, separate driving mechanisms for effecting controlled rectilinear movement in each of said paths, a



manually operated shaft, and means for selectively connecting said shaft to said driving mechanisms.

---



**2,388,786**
**TRANSPARENT CLOSURE**
**Milton Knight, Maumee, and Clyde D. Lowry, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**Application March 17, 1942, Serial No. 435,075**
**6 Claims. (Cl. 189—64)**

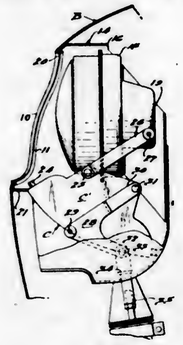


1. A transparent closure comprising a sheet of laminated safety glass including two sheets of glass and an interposed layer of plastic material adherent thereto, said plastic interlayer extending beyond the edges of the glass sheets, and a metal member embedded in the plastic interlayer and having a portion thereof received between the glass sheets and another portion projecting outwardly therebeyond and embedded in the extended portion of said plastic, the extended portion of said metal member being provided with a laterally enlarged portion.

---

**2,388,787**
**HEAD-LAMP CLOSURE OR SHUTTER**
**Clarence H. Kuschel and Herbert C. Brill, Detroit, Mich., assignors to Briggs Manufacturing Comany, Detroit, Mich., a corporation of Michigan**
**Application August 30, 1941, Serial No. 408,978**
**7 Claims. (Cl. 240—7.1)**

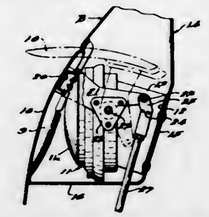
1. The combination with a motor vehicle frontal portion having an opening formed therein, of a headlamp disposed behind said opening, a closure member for said opening movable behind the frontal portion into and out of position in front of said headlamp and adapted in closed position to project into said opening, and means for shifting said closure member out of said opening and to one side of the headlamp and vice versa, said means including a swinging member pivoted to the closure member at a point and also pivoted to a fixed support, and a lever pivoted to a fixed support at a predetermined point and pivoted to the closure member at a point shiftable



during operation past a dead center line passing through said first mentioned points.

---

**2,388,788**
**HEAD-LAMP CLOSURE OR SHUTTER**
**Clarence H. Kuschel and Herbert C. Brill, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan**
**Application August 30, 1941, Serial No. 408,979**
**4 Claims. (Cl. 240—7.1)**



1. The combination with a motor vehicle frontal portion having an opening formed therein, of a headlamp disposed behind said opening, a closure member for said opening, and means for swinging said closure member relatively to the headlamp to uncover said opening by shifting the lower end thereof outwardly of the opening and upwards and shifting the upper end thereof rearwardly of the opening or vice versa to close said opening, said closure member in open position projecting through the upper end of the opening in advance of the headlamp to provide a visor.

---

**2,388,789**
**GLASS INSPECTION APPARATUS**
**Leon I. Louviaux, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**Application August 3, 1940, Serial No. 350,739**
**2 Claims. (Cl. 88—14)**

1. In apparatus for the simultaneous inspection of a multiplicity of glass sheets or plates for defects such as ream, the combination with means for supporting a multiplicity of sheets or plates of glass face to face in a substantially vertical position and in contact with one another, of a hand

portable lighting device removably carried by said supporting means at one side of the said sheets or



plates for directing light therethrough whereby they may be simultaneously inspected from the opposite side.

---

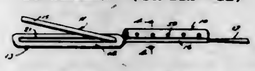
**2,388,790**
**RETHREADING TOOL**
**Alex Mackliet, Spokane, Wash.**
**Application October 19, 1944, Serial No. 559,347**
**7 Claims. (Cl. 10—1)**



1. A rethreading tool comprising a body formed with an opening tapered toward its lower end and having a head at its top, a reversible diamond-shaped block in the tapered lower portion of said body constituting a lower jaw formed with upper and lower V-shaped recesses constituting bolt-receiving seats and a threaded bore between the seats, a screw rotatably passing through an opening in the lower end of said body and engaged in the threaded bore to hold the block in place, said head being formed with a vertical passage and with a pocket at a side thereof, a block constituting an upper jaw slidable vertically through said passage and having a V-shaped bolt-receiving recess at its lower end and a threaded pocket open along one side and confronting the pocket of said head, an adjusting screw in said pockets meshing with threads of the pocket in the upper block for shifting the upper block vertically, said screw being formed with a circumferential groove, a set screw threaded through a side opening in said head and engaged in the groove to rotatably mount the adjusting screw, the upper block being formed with a longitudinal passage threaded from its upper end, a thread cutter shiftable longitudinally through said passage and protruding downwardly therefrom, and a pressure screw threaded into said passage and swiveled to the upper end of the thread cutter.
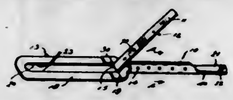
---

**2,388,791**
**HAIR CURLER**
**William H. Maxwell, Los Angeles, Calif.**
**Application August 12, 1943, Serial No. 498,340**
**10 Claims. (Cl. 132—41)**



2. A hair curler of the character described including, two arms secured together to swing relative to each other, one a fastener arm, the other a retainer arm, an extension integral with one of said arms, and a tubular part permanently attached to said extension to form a substantially round hollow spindle to receive a roll of hair.

---

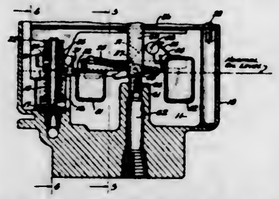
**2,388,792**
**HAIR CURLER**
**William H. Maxwell, Los Angeles, Calif.**
**Application August 12, 1943, Serial No. 498,341**
**21 Claims. (Cl. 132—41)**



14. A hair curler formed of sheet material including a part rolled to form an open ended substantially round spindle, said part having vent openings in it, a retainer part connected with one end of the spindle along a transverse line of fold in the material, a fastener arm connected with the said end of the spindle along a transverse line of fold coincidental with the first mentioned line of fold, the fastener arm having an elongate opening left by removal of material to form the retainer part, the portions of the fastener arm at either side of the opening being folded over so those portions are of double thickness, and a tab on the outer end of one of said parts to be engaged in the opening in the fastener arm to hold the arm in place to hold a roll of hair on the spindle.

---

**2,388,793**
**SNAP ACTION CONSTANT LEVEL DEVICE**
**Lourdes V. McCarty, Milwaukee, Wis., assignor to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application November 5, 1943, Serial No. 509,097**
**10 Claims. (Cl. 137—68)**



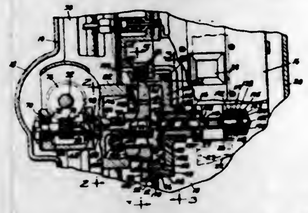
1. In a constant liquid level control device, a casing defining a chamber having inlet and outlet passages, a valve controlling the flow of liquid through the inlet passage into the chamber, a float system buoyed up in the liquid in the chamber and having portions of unequal displacement, a yoke pivotally connected with said float system and connected with said valve to transmit a force thereto upon rising and rocking movement of said float system, and a toggle mechanism pivotally mounted on said float system and actuated thereby by rocking thereof to impart a force to said yoke.

---

**2,388,794**
**MOTION PICTURE PROJECTOR**
**Raymond J. Miller, Detroit, Mich., assignor to American Pattern and Manufacturing Co., Detroit, Mich., a copartnership composed of said Miller and Alfred E. Wilson**
**Application June 17, 1942, Serial No. 447,244**
**7 Claims. (Cl. 88—18.3)**

1. In a motion picture projector having a housing, a wall dividing the space within the housing into mechanism and film compartments, an intermittently driven sprocket in the film compartment, driving means in the mechanism compartment, an intermittence movement interposed between said driving means and intermittently driven sprocket comprising a carrier mounted in the intermediate wall, an intermittence casing having front and back walls, a sprocket carrying star shaft journalled in the front wall, a flywheel shaft journalled in the back

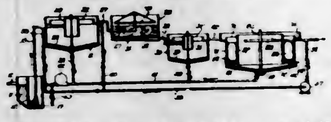




wall, connecting means between the flywheel shaft and the star shaft comprising a cam shaft journalled in the back wall, a flywheel connected to the flywheel shaft and having an axially extending flange, connecting means between the flywheel shaft and the cam shaft comprising gears positioned radially inside of the flange of the flywheel, and connecting means between the casing and carrier whereby the casing and flywheel may be removed through the carrier into the film compartment.

---

**2,388,795**
**SEWAGE DISPOSAL**
**John A. Montgomery, Denver, Colo., and Louis E. Livingston, Dallas, Tex., assignors to Lakeside Engineering Corporation, Chicago, Ill., a corporation of Illinois**
**Application June 11, 1942, Serial No. 446,576**
**5 Claims. (Cl. 210—7)**

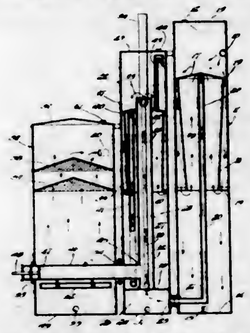


1. In a method of treating sewage and the like wherein the raw liquid has been subjected to clarification and purification for removing the heavy matter and other settleable solids, the steps which consist in supplying the clarified and purified liquid to an aeration chamber and flowing the liquid downwardly in said chamber through a submerged filter bed and in opposition to upward currents of air for agitating the downwardly flowing liquid and for maintaining the submerged filter bed biologically active, then flowing the liquid in an upward direction within a contiguous settling chamber providing a quiescent zone of upward liquid flow in advance of the outlet for the clear effluent, and withdrawing the clear effluent from said outlet.

---

**2,388,796**
**LIQUID DEMULSIFYING AND SETTLING APPARATUS**
**Walter M. Mount, Tulsa, Okla.**
**Application November 24, 1941, Serial No. 420,268**
**4 Claims. (Cl. 252—362)**

1. Apparatus for demulsifying and settling liquids, in combination, a clarifying tank having an inlet in the base thereof for liquid to be treated, a heating chamber extending vertically within the tank for heating the liquid during upward flow through the chamber from said base inlet to an outlet in the upper end of the chamber, clarifying means also located within the tank in surrounding relation with the heating chamber and having location below the outlet for the heated liquid whereby the liquid flows downwardly in the tank around the clarifying means,



said clarifying means clarifying the liquid by reversing the downward liquid flow within the tank to establish a zone of upward flow, a conduit for conducting the clear liquid from said clarifying means, a settling tank, said conduit connecting with the settling tank at the base thereof and delivering the liquid to said settling tank, a fire tube extending transversely through the settling tank and into the clarifying tank for connection with the heating chamber therein, and an outlet for withdrawing the liquid from the settling tank.

---

**2,388,797**
**HAIR CURLER**
**John B. Panushka, Glendale, and Leonard A. Wheeler, Los Angeles, Calif., assignors of one-half to Robert H. Clark and one-half to William H. Maxwell, both of Los Angeles, Calif.**
**Application August 17, 1943, Serial No. 498,948**
**4 Claims. (Cl. 132—41)**



3. A device of the character described including, an open ended tubular spindle, two arms, and integral tabs on the arms engaged in one end of the spindle connecting the arms and the spindle so they can be independently folded over the spindle, one of the arms being a retaining arm serving to retain hair on the spindle as it is wound thereon and the other arm being movable to a position to overlie the retaining arm and serve to fasten a roll of hair on the spindle, the last mentioned arm having an opening to receive and hold the other end of the spindle.

---

**2,388,798**
**DUSTING APPARATUS**
**Donald Parker, Fresno, Calif.**
**Application February 21, 1942, Serial No. 431,362**
**4 Claims. (Cl. 42—148)**

1. In a device for applying dust to the under surfaces of the leaves of plants, shrubs and the

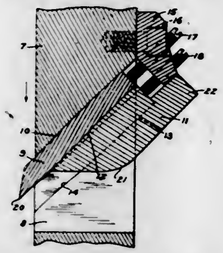
like, a carriage, means on said carriage for producing a blast of air mixed with dust, a conduit supported by said carriage in a position to extend substantially horizontally outward therefrom and connected to said blast producing means, a nozzle on the outer end of said conduit for directing said blast transversely of the length of said con-



duit and against said plants, means mounting said conduit on said carriage for oscillation about the longitudinal axis of said conduit, and means for interconnecting said carriage and conduit for automatically oscillating said conduit as said carriage advances over the ground, whereby said blast is directed against both the under and upper surfaces of the leaves of said plants.

---

**2,388,799**
**CHIPPER KNIFE ASSEMBLY**
**Stanley D. Payzer and Newenham A. Gray, Wausau, Wis., assignors to D. J. Murray Manufacturing Co., Wausau, Wis., a corporation of Wisconsin**
**Application July 21, 1944, Serial No. 546,006**
**18 Claims. (Cl. 241—92)**

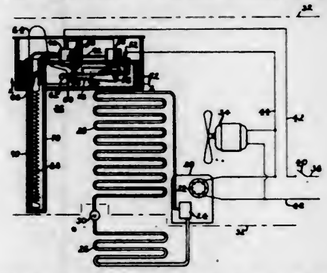


1. In combination, a rotor having a through opening, a knife blade having one side coacting with a face of said opening, a wedge bar coacting with the opposite side of said blade, a reaction member associated with said rotor adjacent to said opening, and adjusting elements coacting with said member and with said blade and bar respectively and being operable to effect independent movement of said blade and bar relative to each other.

---

**2,388,800**
**MOTOR PROTECTOR**
**George C. Pearce, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application August 27, 1942, Serial No. 456,325**
**3 Claims. (Cl. 62—4)**

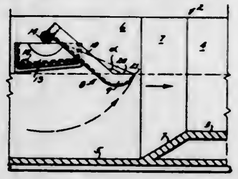
1. A condensing unit including a condenser for condensing a fluid, a compressor for compressing the fluid and supplying the fluid to the condenser, an electric motor for driving the compressor, an electrically operated means for circulating a cooling fluid in heat exchange relation with the condenser, and a thermal control connected in series circuit relationship with said electric motor and having a thermal element in heat exchange relation with said cooling fluid and an electric heater in series circuit relationship with said electric motor for heating said thermal element sufficiently to trip said thermal control to deenergize said motor when the cooling fluid fails



to circulate during operation of the unit but insufficiently to trip said thermal control when the cooling fluid circulates.

---

**2,388,801**
**SAMPLING DEVICE**
**Edmond T. Roetman, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application April 1, 1942, Serial No. 437,141**
**4 Claims. (Cl. 137—166)**



2. In apparatus for sampling a liquid flowing in a channel, a channel, a liquid-measuring device for maintaining a definite relation between the height of liquid on the upstream side of the measuring device and the volumetric rate of flow thereof through the channel, a rotatable shaft having an axis transverse of the channel and above the liquid surface therein, a scoop having an open face to allow entrance of the liquid carried by the shaft for rotation therewith, a conduit communicating with the scoop having an outlet offset from the plane of rotation of the scoop, a receptacle beneath the outlet, and means for continuously rotating the shaft at substantially constant speed to swing the scoop face-first through a portion of the channel in a direction with the liquid current.

---

**2,388,802**
**POLYVINYL KETAL ACETAL RESIN**
**Joseph D. Ryan, Toledo, Ohio, and Fred B. Shaw, Jr., Baltimore, Md., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**No Drawing. Application April 10, 1942, Serial No. 438,428**
**4 Claims. (Cl. 260—36)**

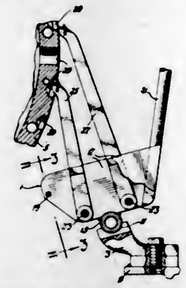
1. A synthetic resin plastic which comprises a polyvinyl ketal acetal resin formed by the reaction of a hydrolyzed polyvinyl acetate (the viscosity of the polyvinyl acetate used as a starting product having a minimum viscosity of 7 centipoises in molar benzene solution at 60 degrees F.) with methyl ethyl ketone and butyraldehyde



and characterized by the fact that the vinyl alcohol content of the resin (calculated as polyvinyl alcohol) ranges between 10 and 28 percent, the vinyl acetate content of the resin (calculated as polyvinyl acetate) is less than 5 percent and the ratio of the ketal to acetal content is not less than .5 to 1 and does not exceed 3.25 to 1, and a plasticizer therefor comprising an ester of straight chain dicarboxylic acid containing more than four methylene groups.

---

**2,388,803**
**ENGINE TURNING MEANS**
**Henry W. Schmidt, Wilmette, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application September 16, 1944, Serial No. 554,525**
**2 Claims. (Cl. 254—131)**

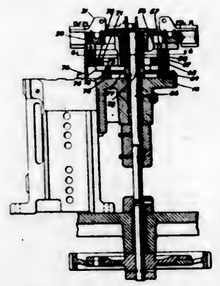


1. The combination of an engine having a rotary member provided with angularly spaced depressions, socket members fixed on opposite sides of the axis of rotation of said member, manual turning means adapted to be supported for oscillatory movement in either socket, said means having pawls pivoted thereon at points on opposite sides of the point of support in either socket so that each of said pawls will fall naturally into a depression in said member upon one-way oscillation of said means and remain therein upon oscillation of means in the opposite direction in order to cause rotation of said member in one direction when said means is oscillated in one socket and to cause rotation in the opposite direction when said means is oscillated in the other socket, both of said pawls also being adapted to fall naturally into separate depressions on one side of said member upon slight rotation of said member opposite to that caused by oscillation of said means in either socket and thereby block further opposite rotation of said member.

---

**2,388,804**
**CAN FEED MECHANISM**
**Jacob H. Schurch, Los Angeles, Calif., assignor to Angelus Sanitary Can Machinery Co., Los Angeles, Calif., a corporation of California**
**Application December 18, 1942, Serial No. 469,737**
**2 Claims. (Cl. 198—22)**

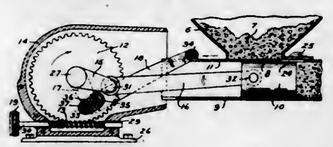
1. A can accelerating feed mechanism, comprising a fixed bearing structure, a vertically disposed shaft rotatably supported therein, a plurality of separate radially extending arms mounted upon said shaft and capable of free independent swinging movement around the axis thereof, each of said arms carrying a can pocket, the can pockets all being disposed in a common horizontal plane, longitudinally extending slots, one formed in the bottom face of each of said arms, blocks, one slidably mounted in each of said slots, a fixed circular housing carried by the bearing support and disposed eccentrically of the shaft axis, an operating ring encircled by said housing and adapted to rotate therein, pivotal connections between the operating ring and the sliding blocks, a throw plate fixed to the shaft and disposed beneath said operating ring, and



means articulately connecting the operating ring with the throw plate whereby a uniform speed of rotation of the throw plate will produce a variable speed of rotation of the operating ring and will impart driving movement to the arms, causing said arms to be progressively accelerated and retarded in speed of travel at periods in their cycle of movement around the axis of the shaft.

---

**2,388,805**
**FUEL STOKER**
**Donald R. Stahl, Milwaukee, Wis., assignor to Metal Specialties Co., Inc., Milwaukee, Wis., a corporation of Wisconsin**
**Application September 15, 1944, Serial No. 554,183**
**6 Claims. (Cl. 110—109)**



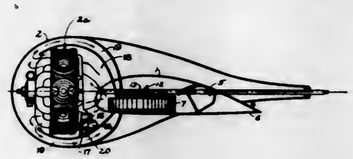
1. In a stoker, a fuel supply hopper having a lower outlet, a fuel feed pipe leading away from said hopper outlet and having an elongated slot spanning the outlet, a plunger movable within said pipe directly beneath said slot, a slide reciprocable within said slot directly between said hopper outlet and said plunger, a member rotatable about an axis disposed transversely of the direction of movement of said plunger and said slide and having crank pins operatively associated with the opposite sides thereof, and driving connections interposed between said pins and said plunger and slide respectively for independently reciprocating the plunger and slide.

---

**2,388,806**
**AIRCRAFT**
**Edward A. Stalker, Ann Arbor, Mich.**
**Application August 12, 1940, Serial No. 352,224**
**1 Claim. (Cl. 244—40)**

In combination in an aircraft, a supporting wing having an intake slot in its surface in com-

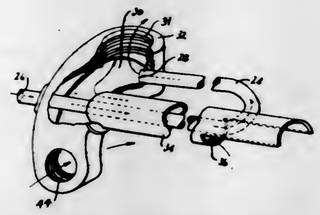
munication with its interior, an engine and an engine nacelle to house the engine, said nacelle being substantially closed to the head on influx of the relative wind, a blower operable by said engine and in communication with said intake slot to induct air therethrough, duct means in communication with said blower to pass the in-



ducted air past the engine in said nacelle and back into the wing interior for discharge therefrom, means for supplying combustion air to said engine, and adjustable means for selectively drawing said combustion air either from the air supplied by said blower to said engine, or from the air after passage over said engine.

---

**2,388,807**
**GUN COOLING APPARATUS**
**James R. Stephenson, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application February 13, 1943, Serial No. 475,706**
**4 Claims. (Cl. 89—14.1)**

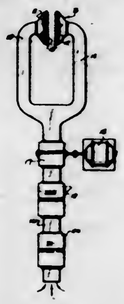


1. In combination with an automatic firearm having a barrel, a cooling jacket for said barrel extending substantially the full length of said barrel, and means for venting the interior of said jacket comprising a vent opening adjacent one end of said jacket, a first vent tube communicating with said opening and having an inlet adjacent the other end of said jacket, and a substantially U-shaped tube extending substantially the full length of the jacket and having an outlet communicating with said vent opening and having an inlet at the end adjacent said vent opening, one of the arms of said U-shaped tube being disposed within said first vent tube.

---

**2,388,808**
**METHOD OF TEMPERING GLASS**
**Gerald White, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**Application April 7, 1941, Serial No. 387,225**
**2 Claims. (Cl. 49—69)**

1. In a method of tempering glass sheets or other glass articles wherein said sheets or articles are first heated to a temperature approximating the softening point of the glass and then suddenly cooled by being subjected to the direct action of air under pressure, the steps of conditioning air by removing moisture therefrom to bring said



air to a predetermined humidity and bringing the air to a predetermined temperature, and then directing the conditioned air upon successive heated glass sheets or other glass articles.

---

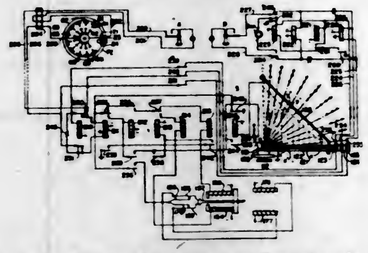
**2,388,809**
**APPARATUS FOR USE IN THE TEMPERING OF GLASS**
**Gerald White and Dudley E. Grimes, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**Application August 24, 1942, Serial No. 455,890**
**4 Claims. (Cl. 49—45)**



1. Apparatus for supporting a curved sheet of glass during tempering, comprising a frame formed of a plurality of members bent lengthwise to conform substantially to the curvature of said sheet, a plurality of supporting elements carried by one of said frame members and including blocks formed from a ceramic composition for supporting the glass sheet at its lower edge in a substantially vertical position, additional supporting elements carried by the other frame members and also including blocks formed from a ceramic composition against which the sheet freely rests, and means for mounting each of said supporting elements upon its respective frame member for independent adjustment toward and away from said frame member in a direction at substantially right angles to the plane of the sheet.



**2,388,810**
**AUTOMATIC SWITCHING SYSTEM**
**Bernard D. Willis, deceased, late of Oak Park, Ill., by Wm. Walter Owen, executor, Elgin, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware**
**Original application February 10, 1941, Serial No. 378,151. Divided and this application October 15, 1942, Serial No. 462,089**
**6 Claims. (Cl. 177—380)**



1. In a calling device for sending signals corresponding to digits, a plurality of operating members, two circuit elements normally connected together, means responsive to the actuation of any one of said members to send a signal for automatically twice disconnecting said elements in any signal, and means for predetermining the relative lengths of said disconnections in accordance with the member actuated.

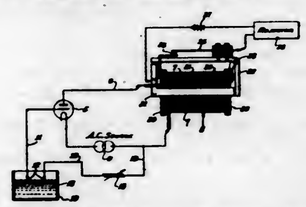
---

**2,388,811**
**WELDER'S COMFORTING AND ACCESSORY SUSPENSION BELT**
**Michael Zatko, Oaklawn, Ill.**
**Application February 25, 1944, Serial No. 523,854**
**1 Claim. (Cl. 224—5)**



A workman's belt comprising a body having separable fastening means at its ends, the intermediate rear portion of said body being wider than end portions thereof and serving as a back support, and article-holding means at ends of the wide intermediate portion of said body, each consisting of a vertical strip extending transversely of the body and secured at its ends to upper and lower portions of the body, a horizontal strip extending longitudinally of the body and having one end secured to the body and its other end extending under the vertical strip midway the length thereof, a fastener passing through overlapped portions of said strips and through said body, and article-holding rings loosely engaged about the vertical strip above and below the horizontal strip.

**2,388,812**
**ELECTRONIC TRIGGER METHOD AND CIRCUIT**
**Frederick G. Albin, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 27, 1943, Serial No. 515,733**
**9 Claims. (Cl. 175—320)**



1. In a gaseous tube trigger circuit, a vacuum tube having a control electrode, anode, and cathode, an alternating current source for supplying anode and control electrode voltages, a mechanical relay, the winding thereof being connected in the anode circuit of said tube, a movable armature for said relay, means for reducing the reactance of said windings to the alternating current flow between said anode and said source, and means for mounting said armature to maintain the reluctance of the magnetic path through said armature substantially constant during movements thereof.

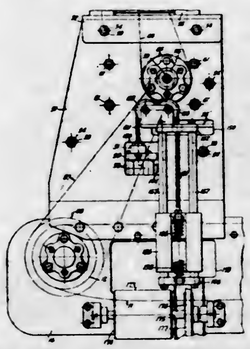
---

**2,388,813**
**ALIPHATIC DIBASIC ACIDS**
**Charles F. H. Allen and James A. Van Allan, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application February 13, 1942, Serial No. 430,786**
**1 Claim. (Cl. 260—535)**

Decamethylene-1,10-dioxyacetic acid.

---

**2,388,814**
**PITTING MACHINE**
**George W. Ashlock, Jr., Oakland, Calif.**
**Application April 15, 1944, Serial No. 531,213**
**4 Claims. (Cl. 146—27)**

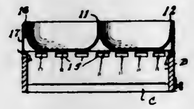


1. In a machine of the character described, a conveyor movable continuously over a path including a fruit coring station and adjacent there-

to and spaced therefrom, along the path of advance of said conveyor, a fruit pitting station, said conveyor including a plurality of fruit holding receptacles each having a fruit holding portion tapering inwardly to an opening through each receptacle, a coring knife movable upwardly at said coring station through the opening in each receptacle to cut a core in a fruit in said receptacle to the pit therein, a retainer movable downwardly at said coring station to retain fruit in said receptacle during coring, a pitting plunger movable downwardly at said pitting station to eject said pit and said core, a plunger head structure carrying said knife, said plunger and said retainer, and means for moving said head (*a*) to lower said plunger and retainer to engage fruit in adjacent receptacles at said stations and to advance simultaneously with said conveyor and (*b*) to raise said coring knife simultaneously to engage and core fruit held in place in one of said receptacles by said retainer.

---

**2,388,815**
**CONFECTION**
**Benjamin Atkinson, Salt Lake City, Utah**
**Application November 6, 1942, Serial No. 464,816**
**1 Claim. (Cl. 107—16)**



A mold for forming popcorn confections, comprising a casing having molds formed therein, all of which meet to form thin line edges at the top of the casing on a flat horizontal plane around the perimeter of each mold section so that there will be no flat surface to catch the confection when it is being placed therein other than the mold areas a support stand, adapted to receive a heater therein, said stand having one side vertically extended to the level of the horizontal plane of the mold casing; and hinges connecting the vertical side of the stand to one edge of the mold casing.

---

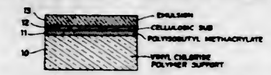
**2,388,816**
**PHOTOGRAPHIC DEVELOPER**
**Frederic R. Bean, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application June 25, 1942, Serial No. 448,415**
**15 Claims. (Cl. 95—88)**

1. A photographic developing solution comprising a developing agent and a compound selected from the group consisting of alkali salts of aminomethane sulfonates and aminomethane sulfinates.

---

**2,388,817**
**SUBBING PHOTOGRAPHIC FILM**
**Albert E. Beguin, Rochester, N. Y., and Donald R. Swan, Cleveland, Ohio, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application September 15, 1944, Serial No. 554,252**
**3 Claims. (Cl. 95—9)**

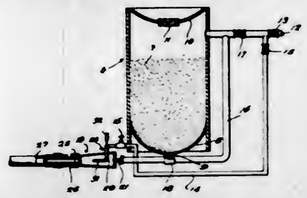
1. A photographic film having low shrink and swell amplitude, comprising a support of a vinyl chloride polymer containing at least 80% vinyl chloride, and in order thereon, a layer of a poly-




butyl methacrylate containing at least 50% polyisobutyl methacrylate, a cellulosic subbing layer and an emulsion layer.

---

**2,388,818**
**REGULATING AND REDUCING ADAPTER FOR SANDBLAST MACHINES**
**Edwin C. Bick, Los Angeles, Calif.**
**Application October 10, 1944, Serial No. 558,034**
**3 Claims. (Cl. 51—8)**



1. In a structural assemblage of the class described, a container constituting a sand-holding and delivery hopper, a valved compressed air pipe connected with said hopper to force sand therefrom, the hopper being provided at its lower end with a discharge for the sand, a by-pass pipe having a vertical branch connected with the compressed air pipe and having a horizontal branch connected with said sand discharge, a single valve in said compressed air pipe adjacent said by-pass to permit air to circulate through the main compressed air pipe into the hopper, and a predetermined portion to circulate around and through the by-pass, and a reducing adapter provided with a delivery hose, the adjacent end of said by-pass being connected with said adapter, and a direct air supply pipe connected by a valved connection with said compressed air supply line and also connected at its opposite end with said adapter, this by way of a yoke-like device having branches piercing and entering diametrically opposite sides of the adapter and terminating in nozzles to feed air in a direction toward the discharge end of said adapter.

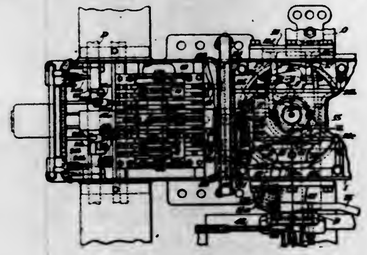
---

**2,388,819**
**RAILWAY SWITCH OPERATING APPARATUS**
**Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application November 12, 1943, Serial No. 510,005**
**8 Claims. (Cl. 246—242)**

1. In railway switch operating apparatus of the type in which a slide bar is moved to an intermediate position prior to the reversal of the switch points and to one or the other of two extreme positions upon the completion of the movement of the switch points depending upon the extreme position to which the switch points have been moved, the combination of a camshaft rotatable between two extreme positions in response to rotation of said slide bar between its two extreme positions, a contact operating member journaled on said camshaft, two pivoted point detector levers each provided with a roller, a point detector rod secured to the switch points to move



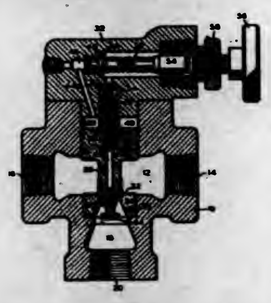
therewith and provided with a notch which aligns with the roller carried by the one point detector lever when and only when the switch occupies its one extreme position and with the other roller when and only when the switch occupies its other extreme position, means biasing said point detector levers in directions tending to cause said rollers to enter said notch, two operating levers journaled on eccentric bushings mounted on said camshaft and operatively connected with said



contact operating member and with said two point detector levers, respectively, said bushings being so disposed on said shaft that the roller on said one point detector lever is free to enter the notch in said point detector rod when and only when said slide bar occupies its one extreme position and that the roller on said other point detector lever is free to enter said notch when and only when said slide bar occupies its other extreme position, and a contact controlled by said contact operating member.

---

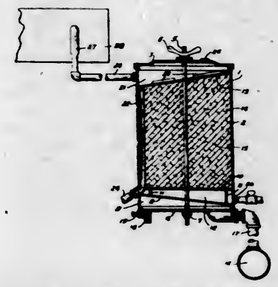
**2,388,820**
**RELIEF VALVE FOR POWER TRANSMISSION**
**George C. Bonnell, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan**
**Application April 25, 1942, Serial No. 440,475**
**2 Claims. (Cl. 137—53)**



1. A relief valve for regulating the pressure of liquid in a power transmission system comprising a body having an inlet chamber, and an exhaust chamber, a passage forming a valve seat and connecting said chambers, and a valve member slidable in the body and positioned upon the pressure chamber side of said seat to close the passage, said valve member having a portion extending through said passage and into said exhaust chamber and tapering smoothly to a small fraction of the seat diameter, said member also having an enlarged, flat-surfaced skirt abruptly flaring outwardly at the terminus of said tapered portion and deflecting the fluid flowing along said extending portion suddenly substantially perpendicularly to its previous direction of flow, thereby causing eddy currents to offset the reaction forces set up by high velocity flow along said tapered portion and to eliminate aeration and foaming of said liquid.

---

**2,388,821**
**OIL REFINING MEANS**
**Anita Margot Braun, Winnipeg, Manitoba, Canada**
**Application June 21, 1944, Serial No. 541,413**
**In Canada May 10, 1944**
**6 Claims. (Cl. 210—122.5)**



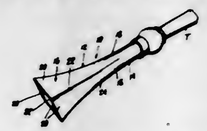
1. An oil refining device for use in association with an internal combustion engine comprising a cylindrical container having substantially horizontally disposed top and bottom closure members, a partition member in the container spaced a short distance from the bottom member and being slightly inclined with respect thereto, said partition member forming a heating chamber in the bottom portion of the container having a restricted portion and an enlarged portion, an inlet in the restricted portion of the heating chamber for a heating fluid, a substantially horizontally disposed perforated circular plate in the container spaced slightly above said partition member and forming between said plate and partition member an oil preheating chamber having a restricted portion and an enlarged portion, a slightly inclined and substantially circular perforated plate in the container spaced slightly below the top member and forming between said plates a filter chamber occupying the major portion of the container, a body of filtering material in said filter chamber, means for circulating the oil supply of said engine successively through the oil preheating chamber and the filter chamber, said oil preheating chamber having an inlet for said oil supply in the enlarged portion thereof, and an outlet for treated oil communicating with the space between the second perforated plate and the top of the container.

---

**2,388,822**
**REED FOR MUSICAL INSTRUMENTS**
**Arnold Brilhart, Great Neck, N. Y., assignor to Arnold Brilhart Ltd., a corporation of New York**
**Application March 13, 1943, Serial No. 479,017**
**10 Claims. (Cl. 84—383)**

1. A reed for the mouthpiece of a musical instrument, said reed comprising a vibratile tongue

part provided with lateral portions which are inclined toward each other transversely of said



tongue part whereby the inner surfaces of said lateral portions define a recess therebetween.

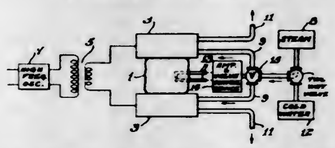
---

**2,388,823**
**METHOD OF PROCESSING BACON**
**Max Britt, Winfield, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application April 22, 1942, Serial No. 440,018**
**4 Claims. (Cl. 99—107)**

1. The method of treating pork bellies to produce an improved bacon product comprising chilling the bellies to a temperature below about 40° F., skinning the bellies, placing the skinned surfaces of the bellies together, pressing said skinned surfaces together at a pressure of from about 50 to 150 pounds per square inch, curing the bellies, and then raising the temperature to within the range of from about 110° F. to 150° F.

---

**2,388,824**
**METHOD OF AND APPARATUS FOR HEAT-TREATING DIELECTRIC MATERIALS**
**George H. Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application March 9, 1943, Serial No. 478,521**
**6 Claims. (Cl. 18—1)**

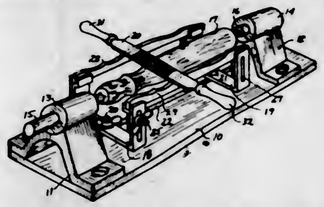


1. The method of heat treating a dielectric material of the type adapted to undergo a prescribed change when subjected to a predetermined temperature which comprises subjecting said material to an alternating electric field of sufficient intensity and for a period of time sufficient to raise all parts thereof uniformly to said temperature by reason of the dielectric losses therein resulting from said electric field, simultaneously maintaining said heated material between and in contact with at least a pair of heat conductive members and heating said members to substantially said temperature whereby to substantially prevent the flow of heat out of said material to said members, and maintaining said members at substantially said temperature for a period of time sufficient to effect said change.

---

**2,388,825**
**WOOD TURNING DEVICE**
**Gustav Burgeson, Youngstown, Ohio**
**Application August 3, 1944, Serial No. 547,904**
**2 Claims. (Cl. 142—38)**

1. In a wood turning device, a base including a pair of brackets for rotatably supporting a work piece therebetween, a slot formed in said base, a pair of templates on opposite sides of and means for mounting the said templates adjacent the said work piece, said mounting means comprising a pair of U-shaped brackets positioned on said base and secured thereto by means of fasteners en-



gaging the said slot, the said brackets including means for clamping the said templates in position thereon, together with a rasp adapted to be positioned transversely with the said templates and work piece so that the work piece may be shaped thereby.

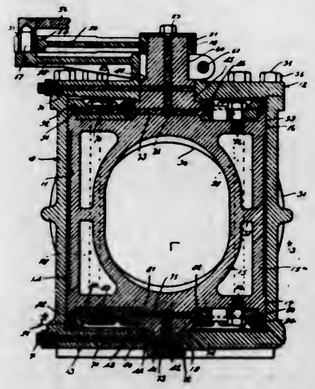
---

**2,388,826**
**YARN CONDITIONING PROCESS**
**John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application February 22, 1944, Serial No. 523,477**
**4 Claims. (Cl. 117—139.5)**

1. The process of conditioning a cellulose organic derivative textile yarn to render the yarn amenable to textile operations such as knitting, weaving, spinning, carding, drawing and the like, which comprises applying thereto a lubricating composition containing a compound having the graphic formula $C_nH_{2n-1}.CN$ where $n$ is 7 to 19 carbon atoms.

---

**2,388,827**
**PLUG VALVE**
**Samuel C. Carter, Los Angeles, Calif.**
**Application August 17, 1943, Serial No. 498,912**
**17 Claims. (Cl. 251—103)**



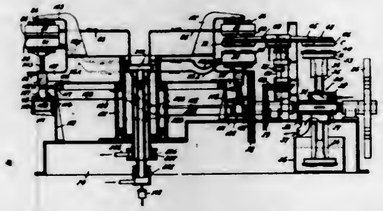
1. A valve, including a body having a bore and fluid openings in its wall, heads closing the ends of the body, a plug of rigid material in the body between the heads, each end of the plug at the wall of the bore having a narrow circumferential



packing carrying channel fixed as to size and shape and having substantially flat parallel side walls and each end of the plug having a packing carrying chamber adjacent and in communication with the channel therein and of substantially greater capacity than the channel, the channel forming a restricted outlet for material from the chamber to the exterior of the plug, there being ports in the stem and plug to conduct packing from the exterior of the body to the chambers.

---

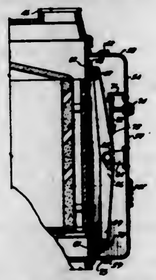
**2,388,828**
**MACHINE FOR MANUFACTURING MOLDED PULP ARTICLES**
**Merle P. Chaplin, Portland, Maine, assignor to Chaplin Corporation, Portland, Maine, a corporation of Maine**
**Application May 2, 1942, Serial No. 441,432**
**3 Claims. (Cl. 92—56)**



1. In a pulp molding machine, a plurality of forming dies rotating in a vertical path, a plurality of pairs of permanently axially alined mating drying dies rotating in horizontal paths, a plurality of transfer dies rotating in a horizontal path between the path of the forming dies and the paths of the drying dies, the rotation of all of said dies being synchronous and intermittent with interspersed periods of rest, and means for imparting vertical reciprocation to the transfer dies while the forming dies and the drying dies are at rest and the drying dies are separated, to transfer articles from successive forming dies to a die of successive pairs of drying dies.

---

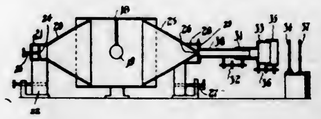
**2,388,829**
**DRAFT CONTROL FOR HEATERS**
**Thomas C. Chenaley, Kansas City, Mo.**
**Application September 19, 1941, Serial No. 411,525**
**6 Claims. (Cl. 236—16)**



1. A draft control for a heater having a jacket forming a side of a combustion chamber and having air inlets for admission of air to said combustion chamber at the top and bottom thereof, a duct-like case covering said air inlets and having a portion in heat conducting relation with said jacket, said duct-like case having upper and lower air inlets, a lever pivoted in said duct-like case and having dampers for alternately controlling said air inlets of the jacket, and a thermostat located intermediate the air inlets of the duct-like case for actuating said lever.

---

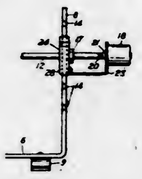
**2,388,830**
**MICRO WAVE CONTROL APPARATUS**
**James Henry Cotton, Toronto, Ontario, Canada**
**Application May 29, 1941, Serial No. 395,830**
**In Canada August 19, 1939**
**5 Claims. (Cl. 250—11)**



1. An apparatus for controlling and directing micro waves for physiological treatment comprising a tube, a micro wave source arranged axially of and intermediate of the length of said tube, a tubular conical member arranged in each end of said tube for deflecting and separating the longer wave lengths from the required micro waves and each having an orifice in its apex, a micro wave reflector adjustably mounted axially of the apex orifice in one of said conical members, and longitudinally adjustable tubular members arranged beyond the orifice in the apex of the other conical member and adapted to tune and direct in a beam the micro waves selectively passing through the cone orifice leading thereto.

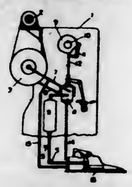
---

**2,388,831**
**BARBECUE**
**Archie E. Cramer, Silverton, Ohio**
**Application October 20, 1944, Serial No. 559,488**
**3 Claims. (Cl. 99—421)**



1. A barbecue apparatus comprising in combination, a frame including a pair of spaced upright standards, a rotatable spit having a pointed end and a butt end, bearing means on one of the standards for supporting the spit near the butt end thereof, said bearing means comprising an inclined open-ended slot in said one standard, the inclination being angularly downward from the open end whereby the spit normally rests upon the base of the slot, bearing means rotationally supporting the opposite end of the spit, a slide shiftable lengthwise of the slotted standard, said slide being slotted in correspondency with the slot of the standard to receive the spit, a driving shaft on the slide aligned with the slot of the slide at its base end, and means for detachably coupling the butt end of the spit to the driving shaft.

**2,388,832**
**CONTROL MECHANISM**
**William W. Criley, Shaker Heights, Ohio, assignor to The Ajax Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 24, 1942, Serial No. 435,981**
**7 Claims. (Cl. 192—139)**



1. A control mechanism for a metal working machine in which machine there are present a pressure actuated clutch for engaging the driving train of said machine, a pressure actuated valve for introducing pressure to said clutch, and machine actuated mechanism for closing said pressure actuated valve after one cycle of operation of said machine, the improvement comprising a unitary, combined manually actuated and pressure actuated control valve for controlling the introduction of pressure to said pressure actuated valve, said control valve being manually operable to introduce pressure to said pressure actuated valve, and pressure actuated to shut off pressure to said pressure actuated valve, and means connecting pressure introduced to said clutch to said control valve.

**2,388,833**
**YARN TREATING PROCESS AND RESULTING PRODUCT**
**Joseph B. Dickey, Rochester, N. Y., and James G. McNally, Knoxville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application January 7, 1944, Serial No. 517,430**
**6 Claims. (Cl. 117—139.5)**

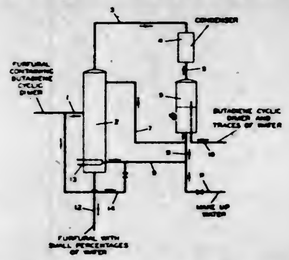
1. The process of conditioning textile yarns comprising an organic derivative of cellulose to render the yarn amenable to textile operations including knitting, weaving, spinning and the like which comprises applying thereto a lubricating and anti-static composition containing as its essential lubricating and anti-static component a carboxylic amide having the formula



wherein Ac is an unsubstituted acyl group, $R_1$ is a member of the group consisting of furfuryl and tetrahydrofurfuryl groups and $R_2$ is a member of the group consisting of hydrogen, alkyl, hydroxyalkyl, furfuryl and tetrahydrofurfuryl groups.

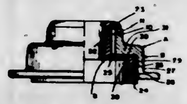
**2,388,834**
**FURFURAL PURIFICATION**
**Donald R. Douslin, Bartlesville, Okla., and Charles F. Weinaug, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware**
**Application July 6, 1943, Serial No. 493,678**
**11 Claims. (Cl. 202—46)**

1. A process of maintaining the concentration of butadiene cyclic dimer in furfural used in solvent extraction of butadiene at a desirably low level which comprises feeding furfural containing butadiene cyclic dimer to a distillation zone and distilling it therein in the presence of water, taking overhead a product containing water and said



butadiene cyclic dimer, and withdrawing a bottom product of furfural of lowered butadiene cyclic dimer content.

**2,388,835**
**MASK STRUCTURE**
**James Edward Duggan, Birmingham, Mich.**
**Application April 20, 1944, Serial No. 531,957**
**6 Claims. (Cl. 91—65)**



1. Means for protecting the interior of a housing from paint or plating material applied to the exterior thereof, the housing having a substantially cup-shaped portion and an interiorly splined tubular portion opening into but projecting outwardly from the base of said cup-shaped portion, comprising a resilient masking element having a substantially cup-shaped portion adapted to fit within the cup-shaped portion of the housing, a tubular portion projecting outwardly from the base of the cup-shaped portion and adapted to extend through the tubular portion of the housing over the splines therein, and a lateral flange at the outer end of the tubular portion adapted to overlie and have sealing engagement with the outer end of the tubular portion of the housing, the cup-shaped portion of the element being adapted to be compressed within and having means by which one or more vacuum locks may be created with the cup-shaped portion of the housing, and the tubular portion of the element having a length slightly less than the length of the tubular portion of the housing so that said lateral flange and the base of the cup-shaped portion of the element will be held under tension against opposite ends of the tubular portion of the housing to prevent paint or plating material from contacting said splines when said element is applied as aforesaid to said housing.

**2,388,836**
**FLUSHING APPARATUS**
**William J. Dunn, Lake Charles, La.**
**Application September 1, 1943, Serial No. 500,857**
**7 Claims. (Cl. 134—169)**

1. A device for use in flushing a radiator having a top opening for a flushing fluid and having a bottom connection, said device comprising an inner tubular portion engageable with said connection, said tubular portion being open from

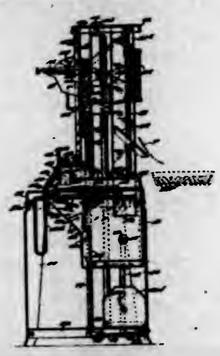


end to end for flow of the flushing fluid therethrough, and an outer tubular portion reciprocable over said inner portion with flow clearance between the two portions, and means closing the outer end of said outer portion, the flow clear-



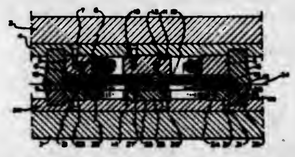
ance between said tubular portions being in communication with the inner tubular portion at the end thereof adjacent the closing means for escape of the flushing fluid through said clearance.

**2,388,837**
**PRINT MAKING MACHINE**
**Glen M. Dye, Minneapolis, Minn.**
**Original application November 7, 1938, Serial No. 239,269. Divided and this application July 10, 1942, Serial No. 450,395**
**12 Claims. (Cl. 88—24)**



1. A machine for making photographic prints having in combination, a frame, a member supported on said frame having a negative supporting surface and having an aperture therethrough for the passage of light, said frame comprising a casing having an opening therethrough adjacent said aperture, a lamp for printing and radiating light through said aperture, movable means for engaging a negative on said surface, means for illuminating said lamp, a curtain movable over said opening during the printing period, means for lowering said curtain for covering said opening during the printing period and for raising said curtain after the printing period, all of said means being operated in timed relation, said last mentioned means including a slipping driving element whereby said curtain may be manually raised or lowered at any time without interfering with the timed operation of said curtain.

**2,388,838**
**DIE**
**Herman K. Egli, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application August 4, 1944, Serial No. 548,087**
**14 Claims. (Cl. 164—29)**



1. A die set including punch and die members having cooperative portions for operating upon sheet material disposed therebetween and sheet tensioning means for clamping the sheet material to be operated upon and for applying tension thereto comprising a tensioning element associated with the punch member and formed of a substantially incompressible material capable of flowing under the application of pressure, a similar tensioning element associated with the die member and arranged to cooperate with the tensioning element associated with the punch member to clamp a sheet therebetween and confining means for the tensioning elements directing the flow thereof under applied pressure to tension the sheet which is clamped between the tensioning elements.

**2,388,839**
**DOMESTIC APPLIANCE**
**Millard E. Fry, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application April 9, 1943, Serial No. 482,393**
**9 Claims. (Cl. 219—20)**



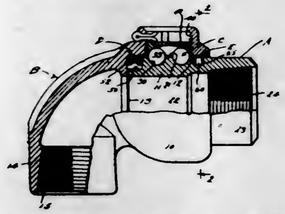
1. In combination, an oven, an electrical upper heater in said oven, an electrical lower heater in said oven, two relatively high potential leads, a relatively low potential lead, said upper heater having one end and an intermediate tap with high potential connections to said high potential leads respectively and its other end with a low potential connection to said low potential lead, said lower heater having its ends with high potential connections to said high potential leads respectively, an upper heater switch opening and closing one of said high potential connections of said upper heater, a lower heater switch opening and closing one of said high potential connections of said lower heater, and another switch cooperating with said switches to open all of said high potential connections in the "off" condition.

**2,388,840**
**GLYCEROL PRODUCTION**
**Ellis I. Fulmer, Leland A. Underkofler, and Richard J. Hickey, Ames, Iowa, assignors to Iowa State College Research Foundation, Ames, Iowa, a corporation of Iowa**
**No Drawing. Application June 23, 1941, Serial No. 399,416**
**7 Claims. (Cl. 195—38)**

4. In a process for the production of glycerol, the step of fermenting with yeast a fermentable sugar in a medium containing calcium sulfite in a quantity in excess of the quantity which dissolves in the medium, in which medium the pH is adjusted and maintained at less than 7.0 through the addition of a substance selected from the group consisting of sulfur dioxide and sulfurous acid.

---

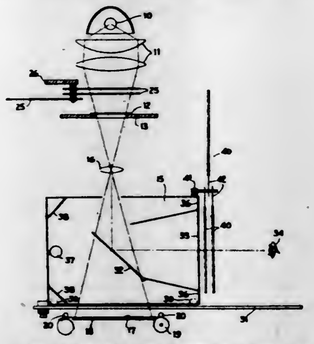
**2,388,841**
**CONTROLLED SWIVEL JOINT**
**Donald W. Goodwin, Brea, Calif., assignor to Chiksan Tool Company, Brea, Calif., a corporation of California**
**Application September 15, 1943, Serial No. 502,470**
**5 Claims. (Cl. 285—97.3)**



1. A swivel joint including a female section, a male section rotatable in the female section, coupling means holding the sections together, and friction means axially spaced from the coupling means resisting rotation between the sections including, a single spring member directly frictionally engaging both of the sections radially.

---

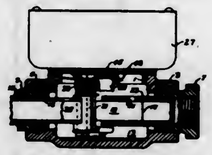
**2,388,842**
**COLOR PRINTING SYSTEM**
**Wesley T. Hanson, Jr., Oak Ridge, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application December 19, 1944, Serial No. 568,799**
**14 Claims. (Cl. 88—24)**



1. An optical system for printing from a color transparency including means for holding the transparency, means for illuminating the transparency, a lens for projecting an image of the transparency to an image plane, means for holding photosensitive material in said plane, means for holding color filter means in the printing beam for compensating for the color balance of the photosensitive material as compared to the color of the illuminating means, removable means for temporarily deflecting the image to a viewing plane for preliminary judging, means for illuminating the borders of the viewing plane with white light, and means for holding a filter complementary to said compensating filter in the beam of the deflected image.

---

**2,388,843**
**SLOW FEED INDICATOR**
**Frank B. Harvuot, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana**
**Application April 5, 1943, Serial No. 481,948**
**5 Claims. (Cl. 200—81)**



1. In an indicator for slow flows of liquid, the combination of a body member having an inlet and a continually open outlet, a tube mounted in said inlet, a small, radially directed port in said tube, a plunger in said tube mounted for movement over said port by pressure of said inlet liquid to open said port as said pressure increases, a tube adjustably mounted in said outlet, means cooperating with said adjustable tube and said plunger for limiting the stroke of said plunger, and means actuated by the plunger for indicating the position thereof.

---

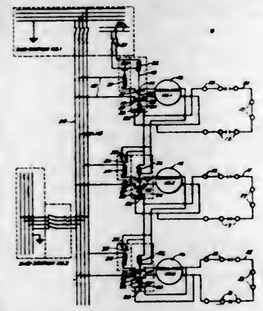
**2,388,844**
**ESTERS OF ALPHA-ETHACRYLIC ACID**
**Rudolph Leonard Hasche and William P. Utermohlen, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application January 7, 1943, Serial No. 471,686**
**4 Claims. (Cl. 260—486)**

1. An alkoxyalkyl α-ethacrylate.

---

**2,388,845**
**ELECTRIC CONTROL SYSTEM**
**Eugene H. Haug, Chicago, Ill., assignor to La Salle National Bank, Chicago, Ill., as trustee**
**Application September 9, 1943, Serial No. 501,625**
**3 Claims. (Cl. 171—97)**

3. An electric control system for connecting a plurality of load circuits to a source of supply comprising constant current regulators connected to the load circuits respectively, a switch controlling connection of the first constant current regulator to the source, means for controlling the switch, a second switch controlling connection of the second regulator to the source, and an operating coil for the second switch connected in series in the first load circuit whereby when current is flowing through the first load circuit the second switch will be closed and each of said switches including an actuating member, a pair of main contacts controlled thereby for controlling the supply circuits to the regulators, and a third set of contacts connected

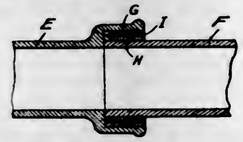


in shunt with the respective load circuits so constructed and arranged as to open after the main contacts are closed and to close before the main contacts are opened upon movement of the actuator member.



---

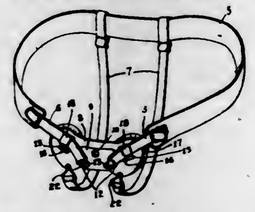
**2,388,846**
**ADHESIVE AND ADHERENT COATING COMPOSITION FOR BITUMINOUS SURFACES**
**Myer H. Hecht, Allentown, Pa., assignor to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa., a corporation of Pennsylvania**
**Application March 19, 1942, Serial No. 435,338**
**2 Claims. (Cl. 260—32)**



1. An adhesive for adhering opposed bituminous surfaces consisting essentially of a coumarone-indene resin and a nitroparaffin solvent for the resin, the adhesive being characterized by the fact that it has low miscibility with water and will not cause opposed bituminous surfaces to coalesce.

---

**2,388,847**
**TRUSS**
**Clarence G. Hildreth, Pittsburgh, Pa.**
**Application April 9, 1943, Serial No. 482,380**
**2 Claims. (Cl. 128—100)**



1. A truss for the human body comprising a base plate, means for connecting hernia pads to the plate, in position to engage the body, a face plate pivotally connected to the base plate at a point adjacent to the vertical mid lines of said plates, a belt having straps connected to the face plate at horizontally-spaced points located at opposite sides of the pivotal connection, and crotch straps connected to the lower edge of the base plate and to the rear portion of the belt.

---

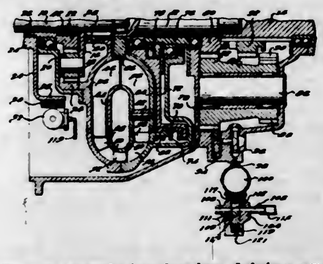
**2,388,848**
**MAGNETIC SHIELDING FOR TRANSFORMERS AND THE LIKE**
**Wilfred C. Howe, Chicago, Ill., assignor, by mesne assignments, to Maguire Industries, Incorporated, New York, N. Y., a corporation of New York**
**Application November 2, 1940, Serial No. 363,993**
**1 Claim. (Cl. 173—35)**



Multiple magnetic shielding comprising a plurality of nested magnetic shielding shells, each of said shells comprising a rectangular sheet of magnetically permeable metal formed into a cylindrical element, the straight edges of said sheet being in unattached proximity with each other in the formed element and end caps having peripheral flanges for each said cylindrical element, the flanges of the end caps of an inner shell internally lapping the end portions of the cylindrical element of said shell, the flanges of the end caps of the next outer shell externally lapping the end portions of the cylindrical element of said next outer shell, and resilient separator means sandwiched in a state of compression between the cylindrical elements of said inner shell and said next outer shell.

---

**2,388,849**
**TRANSMISSION**
**Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application February 17, 1940, Serial No. 319,442**
**2 Claims. (Cl. 60—54)**

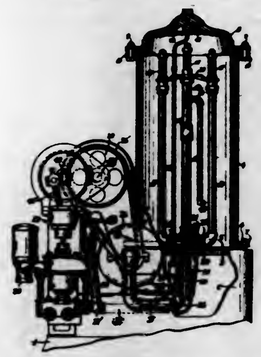


1. In a transmission having driving and driven shafts, a torque converter comprising impeller and turbine elements associated with the shafts, driving means between the driving shaft and impeller comprising a plurality of planetary gear trains selectively operable to drive the impeller at a speed different than that of the driving shaft or in reverse, one-way driving means between the driving shaft and impeller to drive the impeller at substantially the same speed as the driving

shaft, means to release the one-way driving means, fluid pressure operated means controlled by the speed of the driven shaft to render one of said planetary gear trains inoperative, and manually operable means to render another of said planetary gear trains operative to drive the impeller in reverse.

---

**2,388,850**
**CARBONATOR**
**James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware**
**Application May 7, 1941, Serial No. 392,265**
**1 Claim. (Cl. 261—36)**



In a carbonator, in combination, a base, a well formed in said base, an upwardly extending supply pipe secured in the bottom of said well, a spray head mounted on the upper end of said pipe, a T-coupling mounted on the top of said well, a pair of upwardly extending re-circulating pipes extending from said T-coupling, spray heads mounted on the upper end of said T-coupling, a $CO_2$ inlet in said base, an upwardly extending $CO_2$ supply pipe connected with said inlet, an air discharge outlet in said base, an upwardly extending air discharge pipe connected to said discharge outlet, a supply pump adapted for connection with the water supply connection with the bottom end of said supply pipe, a re-circulating pump having its inlet connected with the discharge opening in said base and its outlet connected with the bottom of said well, and a casing enclosing said pipes.

---

**2,388,851**
**SOLUBLE MATERIAL WHICH BECOMES INSOLUBLE UPON SEPARATION FROM SOLVENT**
**William O. Kenyon and William F. Fowler, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application May 11, 1942, Serial No. 442,452**
**11 Claims. (Cl. 260—86)**

1. A water-soluble resinous material which, when the water of a water-solution of which is evaporated becomes insoluble in water, the water-soluble material having resulted from the deesterification [illegible]olution in a monohydric saturated aliphatic alcohol containing not more than 3 carbon atoms and in the presence of an acid deesterification catalyst, of a copolymer of vinyl acetate and a mono $\beta$-chloroallyl ester of a monocarboxylic acid selected from the group consisting of benzoic acid and saturated aliphatic monocarboxylic acids containing not more than 3 carbon atoms, said copolymer containing from about 1 to about 14 per cent by weight of the mono $\beta$-chloroallyl ester, the deesterification having been continued until not more than a trace of chlorine is present in the resinous material.

---

**2,388,852**
**AUTOMATIC NOZZLE**
**Robert T. Killman, Nashville, Tenn.**
**Application March 25, 1943, Serial No. 480,435**
**In Canada March 16, 1943**
**4 Claims. (Cl. 226—127)**

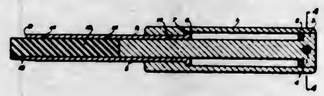


1. In a nozzle, a casing providing a pressure chamber, a spring loaded valve for maintaining pressure in said chamber, a cylinder formed integrally with said casing, a valve controlling the flow of fluid into said chamber, said valve having attached thereto a piston slidably received in said cylinder, said piston being bored out for a major portion of its length, the bottom of said bore being flat, a latch member having a disc shaped head positioned within said bore, a compression spring urging the head of said latching member against the flat bottom of said bore whereby the latch member is yieldably maintained with its longitudinal axis coinciding with the longitudinal axis of said piston, an abutment positioned in the end of said cylinder and so placed as to normally contact the end of the latch member and thus prevent the piston from moving further into the cylinder, a Venturi jet vacuum pump having its inlet opening connected to the pressure chamber, a diaphragm chamber, a diaphragm contained in said chamber, a pusher member whereby a downward movement of the diaphragm operates to move the latch from contact with the abutment and thus let the piston move into the cylinder and cause the valve to shut off the inlet into the pressure chamber, said diaphragm chamber being connected with the vacuum inlet of the Venturi pump, an air leak pipe connected at one end to the diaphragm chamber and terminating at the other end in an orifice of such size that it will admit air but not liquid at such a rate as to prevent the Venturi pump from evacuating the diaphragm chamber sufficiently to cause an operative movement of said diaphragm.

---

**2,388,853**
**HAND TOOL FOR INSERTING INSULATING STRIPS**
**Frank S. Kundtz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio**
**Application September 25, 1944, Serial No. 555,743**
**1 Claim. (Cl. 29—270)**

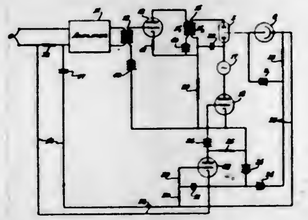
A tool of the character described comprising a hollow barrel and a rod mounted to be slidable therein, a metallic plunger strip anchored to said barrel, said rod being longitudinally slotted to receive said plunger strip for its full length when said rod is in retracted position within said barrel, said rod being adapted when in extended position to receive an insulating strip of approximately the same width and thickness of the plunger strip and of a length determined by the distance between the outer end of the plunger strip and the outer end of said slot, said rod having its outer end tapered to provide a wedge for manual insertion and spreading stator coils of an electrical device stator, said tapered end being cut away to provide an abutment shoulder for said stator coils, said plunger strip, upon retraction of said rod within said barrel, being adapted



to force said insulating strip freely into a position between said stator coils temporarily spread apart by the wedge action of said tapered forward end of said rod, said slot in said rod being cut through one side wall thereof and covered by a filler strip of a length extending from said abutment shoulder to the inner end of said rod leaving said slot in the side wall open from said abutment shoulder to the tip of said tapered portion for inspection purposes to determine whether the insulating strip is in the tool prior to operation of the tool.

---

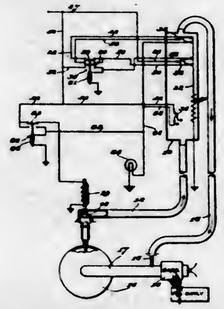
**2,388,854**
**PLURAL FEED-BACK SYSTEM FOR LIGHT SOURCES**
**Wilbur R. Le Page, Pikesville, Md., assignor to Radio Corporation of America, a corporation of Delaware**
**Application April 30, 1943, Serial No. 485,256**
**15 Claims. (Cl. 250—41.5)**



1. In a light source stabilizing controlling and modulating system, the combination of a source of light, an electrical energy supply for said source, means for detecting a portion of the light output from said source, a direct current amplifier, an alternating current amplifier, means for simultaneously impressing the output of said photoelectric pickup device on said amplifiers, said direct current amplifier transmitting currents corresponding to the slow variations in the light output to said electrical energy supply and said alternating current amplifier transmitting currents corresponding to the rapid variations in the light output of said light source, a transformer for connecting said alternating current amplifier to said light source, and an electrical coupling circuit between the primary and secondary windings of said transformer for maintaining proportionality between the direct current components in said windings and thereby obtaining linearity of transmission of said alternating currents through said transformer.



**2,388,855**
**AIRCRAFT HEATER CONTROL APPARATUS**
**John H. Leslie, II, Winnetka, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia**
**Application March 6, 1942, Serial No. 433,651**
**6 Claims. (Cl. 158—28)**



1. In an aircraft heating system having an internal combustion type heater provided with electrical ignition means and means to supply a fuel mixture thereto, the combination of a valve for controlling the supply of fuel mixture to the heater electromagnetic means energized to maintain said valve in open position while the heating system is in normal operation, a circuit for supplying electrical energy to said electrical igniter, a temperature responsive igniter switch in said circuit effective to open the same when the heated attains its substantially normal operating temperature and to close said circuit when the heater drops slightly below said temperature, a cold switch responsive to the temperature of said heater and operated upon attainment of a temperature lower than that required to close said igniter switch, and means controlled jointly by said cold switch and said igniter switch to de-energize said electromagnetically operated valve when both of said switches are in their cold positions.

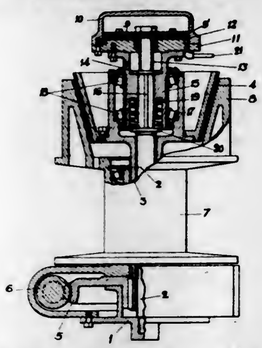
---

**2,388,856**
**INFANT'S TOILET SEAT**
**Richard C. Lewis, Winnetka, Ill.**
**Application August 19, 1944, Serial No. 550,271**
**2 Claims. (Cl. 4—239)**



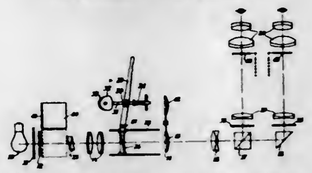
1. An infant's toilet seat comprising a seat portion having an opening therein, a pair of gripping members hingedly attached to opposite sides of the undersurface of said seat portion, each of said gripping members having a curved middle portion, and flanges on either side of said curved portion, said gripping members adapted to pivot to removably position said infant's toilet seat on a conventional large size toilet seat having a seat portion with a curved opening, the curved middle portion of said gripping members contacting the curved portion of said conventional seat and the flanges contacting the upper and under surfaces of said conventional seat.

**2,388,857**
**PNEUMATIC CLUTCH CONTROL**
**Lawrence B. Lindsley, Los Gatos, Calif.**
**Application October 19, 1942, Serial No. 462,636**
**6 Claims. (Cl. 192—85)**



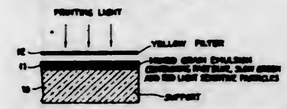
1. In a pneumatic clutch control, a stationary shaft, a reciprocable driving sleeve rotatably and adjustably mounted on the shaft, a rotatable device mounted on and rotatable independently of the sleeve, a driven clutch element secured to the rotatable device, a driving clutch element secured to the sleeve and arranged to operatively engage with the driven clutch element when the sleeve is adjusted in one direction of its reciprocable movement, a stationary piston mounted on the shaft, a reciprocable casing within which the piston is positioned, the said piston and the casing providing a closed air chamber, air inlet means for supplying air under pressure to the chamber whereby the casing may be reciprocated in one direction of its movement, a non-rotatable member secured to and carried by the casing and mounted for reciprocating motion on the shaft, and means connecting the non-rotatable member and the rotatable sleeve, whereby the sleeve and the driving clutch element may be adjusted to a position where the clutch elements are in operative engagement while at the same time the sleeve and the driving clutch element are allowed to rotate.

**2,388,858**
**STEREO TRAINER**
**Stephen M. MacNeille, Oak Ridge, Tenn., and George J. Koch, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application September 2, 1943, Serial No. 500,943**
**18 Claims. (Cl. 88—20)**



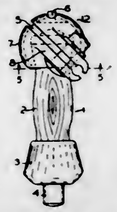
1. An instrument for testing and training stereoscopic vision, comprising a target, an objective for forming an image of the target in a primary image plane, birefringent means in series with the objective for splitting the image into two images polarized at right angles, means for moving at least part of the birefringent means axially and continuously to vary the image separation, means for binocularly viewing the polarized images including polarising filters respectively for the right and left eyes of the observer mutually at right angles, and respectively effectively parallel to the axes of the birefringent means, to permit stereoscopic viewing of the images.

**2,388,859**
**MIXED GRAIN EMULSIONS**
**Leopold D. Mannes, New York, N. Y., and Leopold Godowsky, Jr., Westport, Conn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application January 9, 1941, Serial No. 373,790**
**In Great Britain January 11, 1940**
**2 Claims. (Cl. 95—2)**




1. A photographic material sensitive to different regions of the visible spectrum, comprising a support having thereon a single mixed grain emulsion layer containing coarse, high-speed silver bromide grains sensitive to only the blue region of the spectrum, and fine, slow-speed silver bromide grains sensitive to the blue region and also to another region of the visible spectrum, the sensitivity to blue light of said high-speed grains being approximately 50 times the sensitivity to blue light of said slow-speed grains.

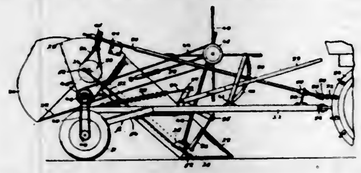
**2,388,860**
**TROLLEY WIRE HANGER**
**Samuel S. Matthes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey**
**Application September 28, 1943, Serial No. 504,195**
**6 Claims. (Cl. 174—160)**



1. In a trolley wire hanger, in combination, a body member having a spherical head on one end thereof and supporting means at the other end, a wire clamping element having a non-continuous wire receiving groove formed therein and disposed below the center of the spherical head, a second wire clamping element having a socket fitting the spherical head and provided with a wire receiving groove cooperating with the first said receiving groove, means to simultaneously draw the clamping elements into secure engagement with a supporting wire and with the spherical head, and means on the spherical head cooperating with a slot in one of the clamping elements to restrict the movement of the clamping elements to a path parallel to a vertical plane through the grooves, the clamping elements being so constructed and arranged relative to the spherical head that the socket portion of each clamping element will clamp onto only the spherical head and the supporting wire will be gripped only by the clamping elements.

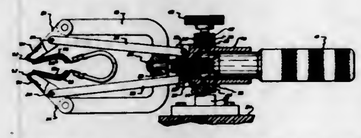


**2,388,861**
**SMALL GRAIN WINDROWER**
**William C. McCann, Windom, Minn.**
**Application April 11, 1944, Serial No. 530,502**
**6 Claims. (Cl. 56—185)**



6. A machine of the kind described, comprising a wide sweep axle, ground wheels journalled on said axle, a draft tongue connected to said axle, sector shaped side plates mounted on said axle a forwardly inclined header having a cutter at its lower end and the upper end thereof interposed between said sector shaped side plates, a rearwardly inclined outwardly tapered chute fastened at opposite side areas thereof to said plates and thereby meeting the header at its upper end, a wheeled support for the header and chute, a rotary reel above the lower end of the header, means for raising and lowering the header, means for driving the cutter, header and reel simultaneously with each other, and an endless conveyor working within the leader.

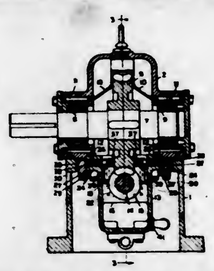
**2,388,862**
**CABLE SPLICING CLAMP**
**Henry H. Merriman, Jackson, Mich., assignor to Harry D. Boardman, Jackson, Mich., as trustee**
**Application March 16, 1942, Serial No. 434,835**
**2 Claims. (Cl. 140—121)**



1. A splicing tool comprising a body portion having a threaded bore, a rotatable handle having a threaded shaft extending through said body and operating in said threaded bore, a yoke carried upon one end of said shaft with respect to which the shaft is relatively rotatable, pressure members pivoted upon said yoke, members extending between said pressure members and said body to control the pivotal movement of said pressure members upon rotation of said shaft through said handle, a distortable clamp supported between said pressure members for wrapping a cable loop upon a reinforcing element, a standard having a bearing portion in which said body portion is rotatably supported, and clamping means in said standard for holding said body in various positions of adjustment.

**2,388,863**
**WORM GEAR REDUCTION UNIT**
**Warren Noble, Cleveland, Ohio, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio, a corporation of Ohio**
**Application June 12, 1943, Serial No. 490,602**
**11 Claims. (Cl. 74—425)**

1. A worm gear mounting adapted to be assembled in an outer supporting housing, consisting of a separate supporting frame member having bearings for the worm shaft located immediately adjacent each end of the worm threads,



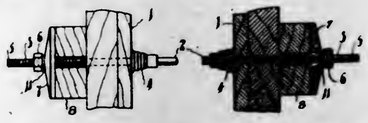
and bearing blocks in said frame member adapted to bear against the peripheral side faces of the worm wheel.

**2,388,864**
**HYDRAULIC LIFT TRUCK**
**Herbert E. Page, Pasadena, Calif.**
**Application July 23, 1943, Serial No. 495,941**
**4 Claims. (Cl. 254—10)**



4. In a hydraulic lift truck, the combination of a chassis, a work-supporting platform, a spindle mounted transversely of the chassis, a sleeve rotatably mounted on the spindle, link means secured to the sleeve and to the platform whereby upon rotation of the sleeve the platform is moved about a radius relative to the chassis, a radial arm secured on the sleeve, a body having a pair of spaced parallel longitudinally slotted extensions pivotally secured to the arm, said body being movable longitudinally relative to the chassis, a pair of longitudinal, oppositely disposed, piston chambers in the body, a work piston secured to the base and slidably mounted in the first of the chambers, a pumping piston reciprocally mounted in the second chamber and having a rod disposed between said extensions, a cross pin extending through the rod and being slidable in said slots, an operating lever pivotally mounted on the base, link means operatively connecting the lever to the cross pin said body presenting a fluid reservoir, means providing a fluid passageway between the reservoir and the second chamber, a check valve in the passageway seating towards the reservoir, means providing a second fluid passageway between the first and second chambers, a check valve in the last-named passageway seating towards the second chamber, means providing a third fluid passageway between the reservoir and the first chamber, a check valve in the last-named passageway seating towards the reservoir, and spring means normally urging the check valve in the second passageway into seated position, said spring means being unyieldable to pressure generated in the second chamber when the work-supporting platform is not burdened with a load to be lifted, and being yieldable to said pressure when said platform is burdened with a load to be lifted.

**2,388,865**
**SUPPORT FOR CONCRETE FORMS**
**Frank D. Parmenter, Toronto, Ontario, Canada**
**Application August 28, 1943, Serial No. 500,401**
**5 Claims. (Cl. 25—131)**



1. A support for concrete forms, including a tie rod, a bolt, connected to the tie rod, a nut on the bolt, and a strap against which the nut is screwed, said strap being adapted to be secured to the form and having a resilient part provided with a hole through which the bolt passes and a prong extending inwardly at an acute angle to the resilient part and adapted to be driven into the form when the nut is tightened.

---

**2,388,866**
**LEAD GLASS COMPOSITION**
**John H. Partridge, Pinner, England, assignor to General Electric Company, a corporation of New York**
**No Drawing. Application January 29, 1944, Serial No. 520,325. In Great Britain November 5, 1942**
**3 Claims. (Cl. 106—53)**

3. A glass of the type described, characterized by ease of working combined with high electrical resistivity, containing the usual components of the lead glasses used in electric lamps, including $SiO_2$ as the major component and substantial proportions of PbO and alkali metal oxides, and characterized by the presence of the oxides of Sr, Ba and Mg, the SrO being present in an amount of at least 2%, together with an amount of PbO less than 20%.

---

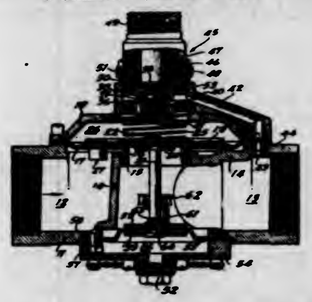
**2,388,867**
**BRUSH AND BRUSH MATERIAL**
**Ruben O. Peterson, Cleveland, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 23, 1942, Serial No. 435,853**
**4 Claims. (Cl. 300—21)**



4. In a method of treating brush bristles for use in rotary and like brushes, the steps which consist in applying to such bristles a viscous tacky substance of the type which wets such bristles, combined with a solvent therefor, and thereupon evaporating such solvent whereby the bristles are left with a coating of such tacky substance.

---

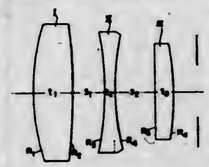
**2,388,868**
**FLUID CONTROL VALVE**
**William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation**
**Application February 2, 1942, Serial No. 429,260**
**8 Claims. (Cl. 137—139)**



1. In a fluid control valve: a casing having an inlet and an outlet separated by a ported partition providing a valve seat, a closure member cooperable with said valve seat, controllable means for applying a force to the closure member to urge it in a direction to leave its seat, said force being sufficient under normal conditions to open the closure member, and means for ensuring against flow of fluid through the valve in a reverse direction, comprising means for applying a force to the closure member sufficient to overpower said first-named force and operative only in response to the existence of abnormal pressure conditions in said outlet that otherwise would permit such reversal of flow, said last-named means being substantially independent of said first-named force-applying means and unactuated in normal operation of the valve.

---

**2,388,869**
**PHOTOGRAPHIC OBJECTIVE**
**Max Reiss, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application September 12, 1944, Serial No. 553,697**
**5 Claims. (Cl. 88—57)**



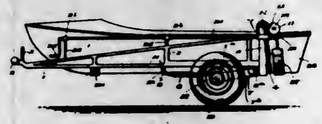
| $f/' = 100$ mm. | | | | $t/n$ |
|---|---|---|---|---|
| Lens | $N_D$ | V | $r_1/d/r_2$ | Thickness |
| I | 1.611 | 56.8 | $r_1 = +38.5$mm<br>$r_2 = -1788.0$ | $t_1 = 5.6$ mm<br>$d_1 = 4.7$ |
| II | 1.572 | 42.5 | $r_3 = -46.3$<br>$r_4 = +33.2$ | $t_2 = 1.6$<br>$d_2 = 5.9$ |
| III | 1.611 | 56.8 | $r_5 = \infty$<br>$r_6 = -38.1$ | $t_3 = 2.8$<br>$f/' = 99.2$ |

1. A photographic objective consisting of three simple lens elements axially spaced and aligned in which the middle element is biconcave with its front surface between 0.70 and 1.5 times as strongly curved as its rear surface and has a focal length between 0.3 F and 0.5 F where F is the focal length of the objective and in which the two outer elements are positive, have refractive indices greater than that of the biconcave element, have focal lengths between 0.5 F and 0.7 F, and are so shaped that their outer surfaces are numerically at least 10 times as strongly curved as their respective inner surfaces, the sum of the two airspaces being less than 0.14 F.



---

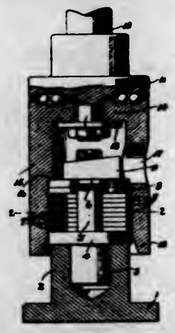
**2,388,870**
**BOAT TRAILER**
**Herbert S. Sackett, Windom, Minn.**
**Application August 23, 1944, Serial No. 550,787**
**4 Claims. (Cl. 214—65)**



1. A boat trailer, comprising an elongated cradle having an open bottom and rear end, a transverse bar extending across the cradle near its front end, spring suspended wheels carrying the side walls of the cradle adjacent the rear end, a transversely arched member extending up from and across the rear end of the cradle, a shaft rotatably supported by said member, operating means extending to a point adjacent the front end of the cradle for rotating the shaft, a flexible cable passing downwardly from and having its ends wound on the shaft, and means for rotating said shaft including worm and worm gear connections adapted to lock the shaft against rotation.

---

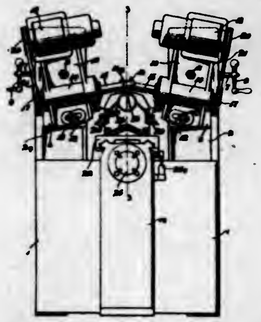
**2,388,871**
**PISTON RING CLAMPING DEVICE**
**Harold M. Scarff, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan**
**Application December 20, 1943, Serial No. 515,068**
**3 Claims. (Cl. 29—269)**



1. A split ring contracting and clamping device comprising a sleeve having an open end, means for mounting said sleeve for movement longitudinally of its axis, said sleeve being interiorly bored from its open end, first in the form of an inwardly tapered portion, next with a cylindrical portion of a diameter substantially that of a closed split ring followed by a reduced diameter cylindrical portion with a shoulder at the juncture between said cylindrical portions, means at the open end of the sleeve for holding a plurality of superimposed split rings coaxially with said sleeve, whereby axial movement of said sleeve over said rings will result in their contraction by said tapered portion and their being clamped against each other by said shoulder, said sleeve having a lateral opening at and above said shoulder to render the interior of the sleeve and the rings accessible for locking them in their contracted and clamped condition.

---

**2,388,872**
**MILLING MACHINE**
**Harold M. Scarff, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan**
**Application January 24, 1944, Serial No. 519,474**
**4 Claims. (Cl. 29—70)**



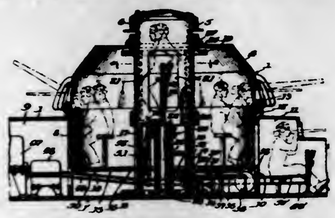
1. In a milling machine, horizontally spaced vertical supports each having a vertical front face and one of said supports being located back of the other, a member mounted for vertical sliding adjustment on the front face of each support, means for adjusting said member, a slide mounted at the front of each of said members for horizontal adjustment, means for adjusting said slides, a vertical plate pivotally mounted between its ends on each of said slides to turn about a horizontal axis, said plate having a transverse journal, a shaft mounted for rotation in said journal, means for holding each of said plates at any position to which it may be turned about its pivot, a milling cutter mounted on and rotatable with each shaft, said shafts extending toward each other and one being located back of the other, and means mounted on each of said plates for driving its associated shaft.

---

**2,388,873**
**COMBAT VEHICLE**
**Martin C. Schwab, Chicago, Ill.**
**Application February 9, 1942, Serial No. 429,966**
**7 Claims. (Cl. 89—36)**

1. In a combat vehicle of the kind described and in combination, a chassis provided with a power unit for driving the same, an armored body mounted on said chassis, a gun turret movably mounted on said body, a vertically movable conning tower mounted on the body with its major portion adapted to be contained within the turret and its upper end projecting through an opening in the top thereof, means within and

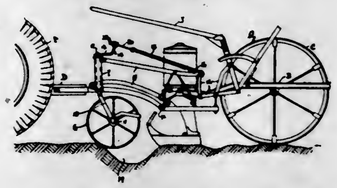
moving with the tower for controlling the driving of the vehicle power driving unit and other



means within the tower for controlling the elevating or retracting of the tower at will.

---

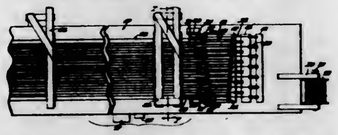
2,388,874
**CASTER WHEEL MECHANISM**
**John P. Seaholm, Moline, Ill., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware**
**Application July 19, 1944, Serial No. 545,725**
**2 Claims. (Cl. 97—127)**



1. The combination with the caster wheel of an implement having an axle rotatably supported by an upper end portion to provide for full three hundred sixty degree castering action of the wheel, an arm secured to and radially extending from said upper end portion of the axle, and a coil spring connected at one end to the free end of said arm and stretched to a point on the frame of the implement spaced therefrom along a line parallel with the direction of travel of the implement, said arm and spring being operative to permit such full castering action of the wheel and to restore the wheel to normal position from any castered position.

---

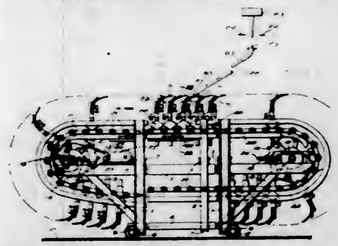
2,388,875
**MEANS FOR MEASURING AND MARKING CORD LENGTHS**
**Charles W. Skinner, Cincinnati, Ohio, assignor to Fashion Frocks, Inc., Cincinnati, Ohio, a corporation of Ohio**
**Application November 3, 1943, Serial No. 508,841**
**6 Claims. (Cl. 33—125)**



4. In a device for defining a plurality of equal length sections on a continuous cord, a base, a row of guides, means supporting the guides of said row spaced apart, said means being mounted on said base for movement of said guides as a unit, a second row of guides spaced from the first named row, said rows being adapted to support a continuous cord threaded therebetween, means mounted on said base and supporting the guides of said second row individually for movement relative to the base and to each other, means for moving said first named row away from the second to lengthen the cord sections disposed between the rows, and drag means associated with the individually movable guides for tensioning individually the cord section disposed between each corresponding pair of guides to equalize the tension imparted to the cord sections during the movement of the first named row.

---

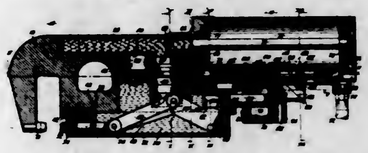
2,388,876
**ARTICLE FORMING APPARATUS**
**Algy J. Smith, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware**
**Application February 7, 1940, Serial No. 317,743**
**36 Claims. (Cl. 49—5)**



1. Apparatus for forming hollow articles from moldable charges of plastic material, comprising a single chain-type conveyor, means for moving said conveyor in a non-circular orbital path, and a plurality of complete article-forming units carried by said conveyor, each of said units comprising a blank mold and a cooperative final blow mold.

---

2,388,877
**SQUEEZE RIVETER**
**Eugene H. Souter, Independence, Mo.**
**Application December 1, 1941, Serial No. 421,184**
**26 Claims. (Cl. 78—41)**



1. In a squeeze riveter of the character described, a housing having a plurality of chambers formed therein and arranged in two groups; a work-engaging ram mounted for longitudinal movement in the housing; a series of interconnected links operably joined to the housing and said ram; liquid contained in one group of said chambers; means for supplying air under pressure to the second group of chambers of the housing; an operating piston in a chamber of the one group of chambers; a floating seal in another chamber of said one group of chambers and setting off a liquid-free compartment therein, a driving piston in one of the chambers of the second group, having a portion thereof movable into a chamber of the said one group for



displacing a portion of the liquid to drive the operating piston through a path of travel for moving the links to force the ram in one direction; a retractor piston in a chamber of the second group of chambers in connection with the links; and a valve movable to successively direct said air under pressure first against the retractor piston and then to the driving piston, said floating seal being movable within its chamber to compensate for liquid displaced by the operating piston during its movement.

---

2,388,878
**PRINTING PLATE MANUFACTURE**
**Albert J. Speiker, Toledo, Ohio, assignor to Atlas Electrotype & Stereotype Co., Toledo, Ohio, a corporation of Ohio**
**Application July 5, 1943, Serial No. 493,497**
**6 Claims. (Cl. 101—401.3)**



1. The method of producing precision thickness plastic homogeneous printing plates in copy from an original comprising simultaneously forming with the relief of the printing face front a coextensive exposed surface flat back approximating that of the pockets uniformly thereover, thereafter flat back pressing to maintain the front into a printing face plane, and then cutting the back into parallelism with the front by dissimilarly broadening surface of said back extent between some of the pockets.

---

2,388,879
**BLADE STRUCTURE FOR AIRCRAFT SUSTAINING ROTORS**
**Paul H. Stanley, Huntingdon Valley, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware**
**Application February 19, 1942, Serial No. 431,470**
**3 Claims. (Cl. 244—18)**



1. For an aircraft sustaining rotor, a substantially elongated aeroform blade comprising a single main spar extending along the major axis of the blade and having a pivotal connection device at its root end so that the entire centrifugal load of the blade is carried through the root end of said single spar, molded material surrounding the spar and in large part defining the aerofoil contour, a tough leading edge strip of channel form running along and substantially defining the nose of the aerofoil substantially throughout the length of the molded material, and a plurality of transverse members secured to the spar at intervals therealong, extending forwardly within said molded material and secured to said leading edge strip and transferring the centrifugal load on said strip to said spar, while forming with said spar and strip a unified structure for supporting and retaining the molded material and for stiffening the blade as against bending in the mean plane thereof to an appreciable greater extent than in the flapping direction.

2,388,880
**METHOD OF MANUFACTURING SURFACE ORNAMENTED ACOUSTICAL TILE**
**Roger H. Stitt, Long Lake, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois**
**Application August 14, 1941, Serial No. 406,921**
**11 Claims. (Cl. 18—47.5)**



7. A method of making an acoustic panel from a panel of sufficient thickness to enable spaced-apart grooves of substantial depth to be formed therein, and made of a material of non-uniform internal structure, and having relatively softer and relatively harder portions, which method comprises applying flexible bristles along the face of said panel to remove more of the relatively softer material than of the harder material thereby to form spaced-apart initial grooves of non-uniform depth, irregular in outline, and a tortuous extent, but running in the same general direction, and deepening the thus produced initial grooves to a substantial depth below the face of the panel by further abrasively removing material from the bottoms and sides of said initial grooves by further brushing.

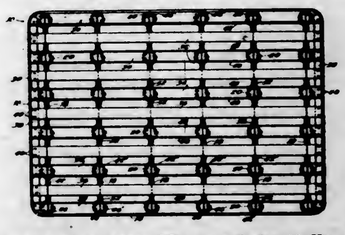
---

2,388,881
**GELATIN COATING COMPOSITION**
**Donald R. Swan, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application August 3, 1940, Serial No. 351,091**
**1 Claim. (Cl. 106—128)**

A coating composition for photographic purposes adapted to give coatings of high transparency, consisting of an aqueous solution of gelatin of 3–10% concentration, which solution sets at room temperature or less and as the modifying agent therein 0.5–2% (based on the weight of the gelatin) of methyl cellulose having a methoxyl content of 16–28%.

---

2,388,882
**SPRING ASSEMBLY**
**George E. Taylor, Chicago, Ill., assignor to Samuel E. Sosna and George E. Taylor, jointly, as trustees**
**Application March 1, 1943, Serial No. 477,560**
**11 Claims. (Cl. 5—275)**

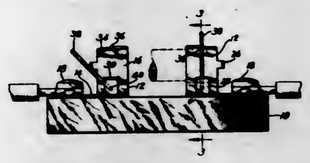


1. In a spring assembly, a substantially rigid bottom frame, a plurality of coil springs supported in spaced and upstanding relation on said

bottom frame and disposed in symmetrically arranged rows extending longitudinally and transversely of said frame, a plurality of flat and bendable slats, one of which is extended longitudinally along each longitudinal row of springs so as to rest on the tops of such springs, other slats extended parallel to and between said first mentioned slats, bendable cross wires supporting said other slats from said first mentioned slats, and longitudinal tie wires extending along the longitudinal edges of said first mentioned slats interconnecting the upper end convolutions of the springs to said cross wires to thereby maintain said first mentioned slats in predetermined relation to their supporting springs.

---

**2,388,883**
**FUSE TERMINAL CLIP**
**Tracy B. Taylor, Windsor, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J., a corporation of New Jersey**
**Application November 15, 1943, Serial No. 510,281**
**14 Claims. (Cl. 200—134)**

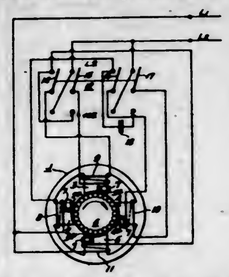


1. In combination in a fuse terminal clamp, a base, a pair of opposed resilient arms projecting upward from said base and comprising a socket adapted to receive therebetween one terminal of a fuse, apertured means respectively associated with each arm in outwardly spaced relation thereto and providing a pair of opposed bearings, and a clamping bail provided on its free ends with pintles respectively directed outward in opposite directions and respectively pivotally received in said opposed bearings with portions of said clamping bail adjacent said pintles disposed in the spaces between said arms and apertured means, said bail being pivotally movable between two extreme positions with respect to said base and having means which in one of said positions of the bail respectively engage said arms to urge them toward each other into firm clamping engagement with a fuse terminal when disposed therebetween and in the other position of the bail release said arms for effecting removal of said fuse terminal from between said arms.

---

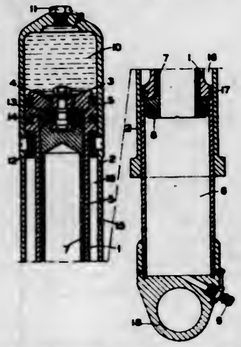
**2,388,884**
**TWO-SPEED MOTOR**
**Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application October 30, 1943, Serial No. 508,282**
**6 Claims. (Cl. 172—278)**

3. In combination, an induction motor comprising a rotor, a stator including at least two pairs of poles, the poles of each pair being oppositely situated and each pole having a main pole portion and a shaded pole portion, similar principal windings on said main pole portions and similar shading coils on said shaded pole portions, a non-inductive impedance, means operable at will to interconnect said principal windings and said impedance so as to condition said motor for operation at one speed, and means operable at will to interconnect said principal windings exclusive of said impedance so as to condition said motor for operation at a different speed.



---

**2,388,885**
**OLEO-PNEUMATIC SHOCK ABSORBER**
**Cyril James Underwood, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England**
**Application June 30, 1942, Serial No. 449,057**
**In Great Britain February 10, 1941**
**6 Claims. (Cl. 267—64)**



1. An oleo-pneumatic shock absorber comprising inner and outer tubes slidably engaged for telescoping movement, and a differential floating piston slidably engaged with said inner tube and having a larger end toward the outer end of said inner tube to define therebetween a gas containing chamber, said telescoping tubes and the smaller end of said floating piston adjacent to the inner end of said inner tube together defining a liquid containing chamber, said floating piston being movable to compress the gas in said gas containing chamber by pressure thereon of liquid in the liquid containing chamber created by inward telescoping movement of said inner and outer tubes.

---

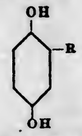
**2,388,886**
**N-SEC-BUTYL-p-NITROANILINE**
**Harold Von Bramer and Lee G. Davy, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application July 7, 1943, Serial No. 493,761**
**1 Claim. (Cl. 260—577)**

N-sec-butyl-p-nitroaniline.



**2,388,887**
**GEL AND GELLING AGENT**
**Arnold Weissberger and Joseph Lee Leiserson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application May 6, 1942, Serial No. 441,998**
**7 Claims. (Cl. 252—316)**

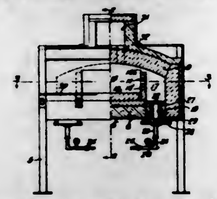
1. A gel of a liquid aliphatic hydrocarbon of the gasoline range and a gelling agent of the following general formula:




wherein R represents a secondary alkyl group of the formula $C_nH_{2n+1}$ wherein $n$ represents a positive integer of from 8 to 18.

---

**2,388,888**
**FURNACE FOR HEATING LENS BLANKS**
**Harvey C. Weller, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio**
**Application November 25, 1942, Serial No. 466,933**
**6 Claims. (Cl. 263—43)**



1. In a furnace for the purpose described, the combination of a back wall, two laterally spaced walls extending forwardly in front of said back wall, said back wall and side walls constituting three side walls of a heating chamber, a roof above said heating chamber, and hot gas chambers, one each being located at either side of said heating chamber, each of said side walls being provided with a plurality of apertures therethrough and the upper edge of said side walls terminating in spaced relation from said roof, whereby hot gases from said hot gas chambers may pass over said side walls and through said apertures to said heating chamber.

---

**2,388,889**
**ROTARY ELECTRICAL APPARATUS**
**William B. Whelan, Chicago, Ill.**
**Application June 23, 1943, Serial No. 491,984**
**4 Claims. (Cl. 171—228)**



1. In combination with a dynamo electric machine having an armature, coils, segmental commutator, and brushes, a rotary segmental assembly driven in synchronism with the commutator and corresponding in structure therewith, the rotary segmental assembly having its diametrically opposite segments electrically connected to each other, said assembly including a shiftable circuit breaker normally making electrical contact with each of said segments, the diametrically opposite circuit breakers being connected in series with each coil, and means for successively shifting each circuit breaker to break each coil circuit as the brushes pass the corresponding commutator segments.

---

**2,388,890**
**FOUR-WAY VALVE**
**John B. Whitted, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia**
**Application July 27, 1943, Serial No. 496,353**
**3 Claims. (Cl. 251—108)**



1. A four-way valve of the class described, comprising a body having a cylindrical chamber therein, an inlet port for connecting said chamber with a source of cold air, a heated air inlet port for said chamber substantially co-axial with said cold air inlet port, said heated air inlet port being substantially wider in a circumferential direction than said cold air inlet port, a cabin outlet port positioned at an angle to the axis of said heated air port, a discharge port having an axis located at an angle to the axis of said heated air port, said discharge port and cabin outlet port being arranged on opposite sides of said heated air port, a light weight, inexpensive vane rotatable in said body and having opposite ends closely adjacent the wall of said cylindrical chamber, said vane being formed of sheet metal and having a narrow end and a broad end adapted completely to close said cabin outlet port, and means for shifting said vane to different positions in said body to variably regulate flow through said ports.

---

**2,388,891**
**TREATING CARCASSES**
**Beverly E. Williams and Leon L. Cadwell, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application August 19, 1943, Serial No. 499,250**
**5 Claims. (Cl. 99—107)**

2. A process for treating animal carcasses and cuts thereof to improve the color of the meat, which comprises heat treating the freshly slaughtered carcass at temperatures of about 110° F. to 122° F. and a relative humidity of about 100% for about ¾ to 3½ hours and then promptly chilling the treated product.

---

**2,388,892**
**LADDER**
**Earl L. Wilson, Auburn, N. Y., assignor to Columbian Rope Company, Auburn, N. Y., a corporation of New York**
**Application May 8, 1944, Serial No. 534,611**
**2 Claims. (Cl. 228—67)**

1. In a step ladder having front and rear mem-

bers, said rear member comprising hollow aluminum standards, vertically spaced steps mounted on the front member, guard rail supports slidably received in the upper extremities of the hollow standards of the rear member and projecting above said standards, a guard rail pivotally



attached to said supports above the top step of the ladder, said rail being movable on its pivotal centers from a position rearwardly of its supports to a position forwardly of said supports to rest on the top step, and means for holding said supports against vertical movement in said rear standards.

---

**2,388,893**
**LENS**
**Donald L. Wood, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Original application July 25, 1939, Serial No. 286,386. Divided and this application June 25, 1942, Serial No. 448,368**
**3 Claims. (Cl. 88—57)**



1. An optically centered objective comprising an uncentered glass lens whose geometrical center is spaced from its optic axis so that the radius of the lens measured from the optic axis to the edge varies, and a plastic rim molded around the edge thereof with the periphery of the rim circular and centered on the optic axis of the lens, the thickness of the rim of plastic material between the periphery of the glass lens and the rim periphery measured radially with respect to the optic axis of the lens, being complementary to said radius of the lens at every point of the periphery to compensate for the uncenteredness of the lens.

---

**2,388,894**
**METHOD OF DEVELOPING PHOTOGRAPHIC EMULSIONS**
**Edward C. Yackel, John A. Leermakers, and Cyril J. Staud, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application September 2, 1943, Serial No. 500,924**
**6 Claims. (Cl. 95—88)**

1. The method of developing an exposed photographic material containing a sensitive silver halide and a photographic silver halide developing agent, which comprises treating said material with moist alkaline vapors for a sufficient length of time to produce a visible image in said material.

---

**2,388,895**
**RIVET SET**
**Harold W. Young, Maywood, Calif.**
**Application April 10, 1944, Serial No. 530,438**
**4 Claims. (Cl. 78—46)**

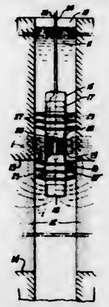
1. A rivet setting tool comprising: an integral body having a shank at one extremity provided with an axial bore, and a head having a stem detachably insertable in said bore and provided on its outer end with a die engageable with ends of



rivets, for the purpose described, said shank having a longitudinal kerf extending from the open end of said bore to a point near the root of the bore.

---

**2,388,896**
**ELECTRICAL METHOD AND APPARATUS FOR LOGGING BOREHOLES**
**Charles B. Aiken, North Plainfield, N. J., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware**
**Application January 28, 1942, Serial No. 428,462**
**4 Claims. (Cl. 175—182)**

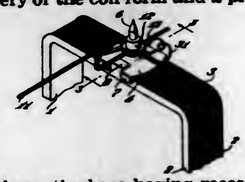


2. Apparatus for determining the boundaries of permeable formations traversed by a bore hole containing a column of conductive liquid through which spontaneous currents flow in the vicinity of relatively permeable formations comprising: three vertically spaced-apart electrodes adapted to be lowered into said bore hole, means directly electrically connecting said electrodes, means including at least one nonconducting body having a diameter substantially equal to the diameter of the bore hole forming a substantially complete barrier to the flow of electric current through the bore hole liquid between the uppermost electrode and the intermediate electrode, means including at least one nonconducting body having a diameter substantially equal to the diameter of the bore hole forming a substantially complete barrier to the flow of electrical current through the bore hole liquid between the lowermost electrode and said intermediate electrode, a fourth electrode in the bore hole spaced laterally from said intermediate electrode, and means for obtaining indications of the spontaneous potential differences between said intermediate electrode and said fourth electrode.

---

**2,388,897**
**ELECTRICAL INDICATING INSTRUMENT**
**Roscoe A. Ammon, Manchester, N. H., assignor to Marion Electrical Instrument Co., Manchester, N. H., a corporation of New Hampshire**
**Application November 30, 1943, Serial No. 512,297**
**6 Claims. (Cl. 171—95)**

1. In an electrical meter of the type having a movable coil, a coil form having side flanges at its periphery and means for pivotally supporting the coil to rotate about an axis, said means including a base of insulation material seating on the periphery of the coil form and a pivot mount-

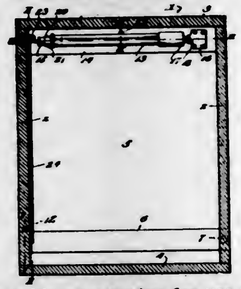


ed on the base, the base having recesses and the flanges having integral tabs fitting into the recesses.

---



**2,388,898**
**APPARATUS FOR MARKING EGG-LAYING HENS**
**James A. Beam, Mount Vernon, Ohio**
**Application February 8, 1943, Serial No. 475,231**
**2 Claims. (Cl. 119—45)**

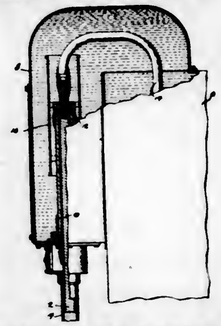


1. Hen-marking apparatus for use in conjunction with a nest having an upright frame in which is provided an entrance opening, a horizontally disposed receptacle adapted for the reception of a pigmented fluid, said receptacle having a restricted fluid outlet formed in its side wall intermediately of the ends thereof, pintle means projecting axially from the ends of said receptacle for effecting its rotatable support in conjunction with the nest frame above said entrance opening, supports carried by said frame in which said pintles are removably journaled, a bar pivotally mounted at one end on the nest frame and extending across said entrance opening contiguous to the bottom of the latter, the free end of said bar being provided with a socket, a stop member carried by said frame and having a vertical portion receivable within said socket, a coil spring positioned between the closed end of said socket and the upper end of the vertical portion of said stop member, whereby to provide a resilient support for the movable end of said bar, and a connection between said bar and one of said pintles for rotating said receptacle when the bar is depressed by the weight of a hen engaging the same, whereby to oscillate said receptacle to a position in which the fluid outlet thereof is directed downwardly.

---

**2,388,899**
**ELECTRICAL APPARATUS**
**Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey**
**Application March 29, 1944, Serial No. 528,518**
**3 Claims. (Cl. 174—18)**

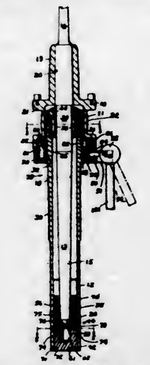
1. Electrical apparatus comprising in combination an electrical instrument casing, a housing attached to the exterior of said casing, a tube of insulating material extending into said housing, an insulated cable conductor extending into said tube, through one end thereof, a connector sealing the opposite end of said tube, an instrument lead extending from the interior of said casing



along the interior of said housing to said connector by which it is attached to the cable conductor, oil permeable insulation for the cable conductor and instrument lead, oil under superatmospheric pressure surrounding said conductor to the sealed end of the said tube, and additional oil filling said housing and casing.

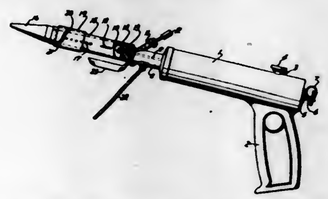
---

**2,388,900**
**TEXTILE MILL SPINDLE**
**Herman H. Brooksieker, Cleveland Heights, and Paul I. Thyreen, Euclid, Ohio, assignors to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio**
**Application June 21, 1944, Serial No. 541,420**
**6 Claims. (Cl. 57—88)**



1. In a spindle of the class described, a bolster case member, a blade member journaled in said case, an internal brake surface on one of the members, a cooperating pair of brake shoes supported on the other member, each shoe having non-radial camming surfaces at opposite ends, an actuator cam mounted to engage and force apart relatively adjacent non-radial surfaces of the two shoes to effect braking, and a fixed cam member operatively associated with the other two non-radial surfaces and rendered active to force the adjacent end portions of the shoes into braking contact with said internal brake surface as a consequence of movement of the opposite ends of the shoes by the actuator cam.

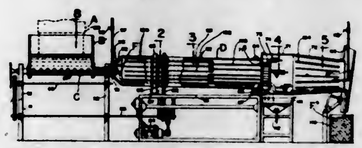
**2,388,901**
**HEATING DEVICE**
**Lawton Arthur Burrows, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application April 16, 1943, Serial No. 483,232**
**5 Claims. (Cl. 158—27)**



1. In a heating device for the localized application of heat and having at one extremity a contact tip of high heat conductivity, and having at the other extremity a fuel container: means for developing pressure therein, means for controlling the flow of fuel therefrom; a combustion chamber intermediate said contact tip and said container characterized by a plurality of ports therein, and a sheath about said combustion chamber movable therealong in such manner as to permit closing successively any desired number of said ports starting with the one nearest to the tip and thereby to control the temperature of the contact tip.

---

**2,388,902**
**STARCH-GLUTEN SEPARATION**
**Robert W. Callaghan, Keokuk, Iowa, and Gerard W. Elverum, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware**
**Application March 27, 1944, Serial No. 528,308**
**18 Claims. (Cl. 127—67)**



1. The process of separating gluten from starch in wheat which comprises forming a semi-fluid dough containing wheat starch and hydrated wheat gluten, kneading the hydrated dough until agglomeration of the gluten is substantially complete but not substantially beyond that point, and working the hydrated and agglomerated dough in the presence of water to wash out the starch.

---

**2,388,903**
**MANUFACTURE OF AZO-METHINE COMPOUNDS**
**Troy L. Cantrell, Lansdowne, Pa., and John G. Peters, Audubon, N. J., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application April 29, 1943, Serial No. 485,064**
**13 Claims. (Cl. 260—240)**

1. A process of producing improved azo-methine compounds comprising reacting a primary arylamine with an aromatic aldehyde in the presence of a small amount of dicyclohexylamine.

**2,388,904**
**METHOD OF MAKING CEREAL PRODUCT**
**Ferdinand A. Collatz, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware**
**No Drawing. Application January 30, 1943, Serial No. 474,167**
**6 Claims. (Cl. 99—82)**

1. The process of producing an edible cereal product which comprises forming a dough from water and a farinaceous material, cooking the dough, forming the cooked dough into pellets, flattening the pellets, and explosively puffing the flattened pellets whereby they expand substantially in size.

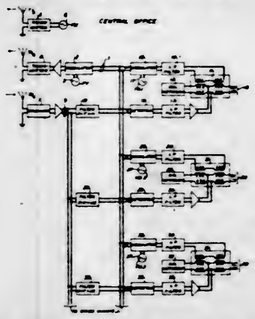
---

**2,388,905**
**PROCESSES FOR THE AMELIORATION OF RUBBER**
**Patrice Henri Marie Compagnon and Jean Nicolas Louis Le Bras, Paris, France; vested in the Alien Property Custodian**
**No Drawing. Application April 3, 1942, Serial No. 437,597. In France March 24, 1941**
**2 Claims. (Cl. 260—768)**

1. The process of limiting swelling and reducing the solubility of rubber in benzene and like solvents which comprises masticating the rubber, adding approximately five percentum of maleic anhydride and masticating in the cold for a time sufficient to effect a reaction of the rubber with maleic anhydride to obtain a product differing from ordinary masticated rubber by greater nervousness, slight thermoplasticity and nearly complete insolubility in the usual rubber solvents.

---

**2,388,906**
**COMMUNICATION SYSTEM**
**Roy C. Corderman, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application September 9, 1944, Serial No. 553,314**
**5 Claims. (Cl. 250—9)**



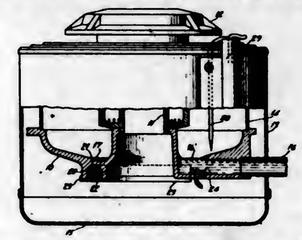
5. In a communication system, a central station, a plurality of field stations, a plurality of voice channels at each field station, voice channels at said central station, each voice channel of said central station corresponding to a different one of the voice channels of said field stations, a modulator and a detector and a channel filter individual to each voice channel of said central station, a carrier source of a different frequency for each modulator at said central station, adjacent ones of said carrier frequencies being assigned in succession to the modulators associated with different group modulators, a plurality of group modulators at said central office, each group modulator common to the modulators of the voice channels corresponding to voice channels of the same field station, an ultra-high-frequency carrier source for each of said group modulators, a transmitter and transmitting antenna for each of said group modulators for transmitting to a field station signal energy from the voice channels of the central station corresponding to the voice channels of the field station, a receiving antenna and receiver at each field station for receiving from the corresponding transmitting antenna at the central station signal energy from the voice channels of the central station corresponding to the voice channels of the field station, a modulator and a detector and a channel filter individual to each voice channel of said field stations, the filters of the channels of said field stations being tuned to the frequencies of the carriers of the corresponding channels respectively of the central station, means comprising the detectors and associated filters at the field stations for transmitting to each voice channel respectively the voice frequency signaling energy from the corresponding voice channel of the central station, means comprising an ultra-high-frequency carrier source and transmitter and antenna at said central station for transmitting a stabilizing carrier to all of said field stations, an antenna and a receiver at each of said field stations for receiving the stabilizing carrier from said central station, means individual to each of the modulators at the field stations for combining said stabilizing carrier with incoming voice modulated carrier current transmitted through the channel filter of the associated voice channel to constitute the individual carrier source for each of the modulators of the field stations, means at each field station comprising a transmitter and antenna common to the modulators of said field station for transmitting signal energy from all of the associated voice channels to said central station, means comprising an antenna and a receiver at said central station individual to each of said field stations for receiving signal energy from said field stations respectively, means comprising the channel filters of the voice channels of the central station for transmitting to the detector of each voice channel of the central station signal energy received from the corresponding voice channel of the field stations, each of the channel filters of said central station being tuned to the frequency of the carrier supplied to the modulator of the corresponding voice channel of the field stations, and means comprising each detector at the central station for transmitting to each voice channel voice frequency signal energy from the corresponding voice channel of the field stations.



---

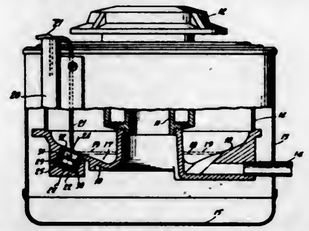
**2,388,907**
**VAPORIZING BURNER**
**Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut**
**Application April 26, 1944, Serial No. 532,703**
**1 Claim. (Cl. 158—28)**

A liquid fuel burner comprising an annular vaporizer having an upwardly extending annular inner wall and an upwardly and outwardly sloping bottom wall so that an annular pool of oil may be formed about the inner periphery of the vaporizer bottom, a central air distributor above the inner wall, a perforated sleeve above the outer periphery of the pot, an oil supply passage opening laterally into the bottom of the vaporizer, an ignition electrode extending down through the space between the sleeve and central air distributor, the pot having a downwardly opening U-shaped recess substantially directly under the deepest part of the pool, the open side of the U being adjacent the supply passage, and an electric heater in the recess for heating the pot to facilitate the capillary flow of fuel over the vaporizer surface to the region opposite the electrode.



---

**2,388,908**
**VAPORIZING BURNER**
**Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut**
**Application April 26, 1944, Serial No. 532,704**
**7 Claims. (Cl. 158—91)**



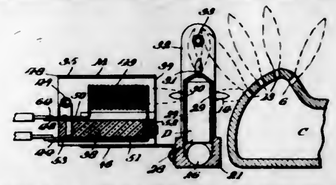
1. An oil burner comprising a vaporizing pot of heat conducting material having a sloping bottom with an upwardly opening recess in the upper surface thereof which recess is adjacent to but above the normal operating level of the oil in the pot, a fire resistant electrode secured in the recess in electrically conducting relation with the vaporizer pot, but in poor thermal conducting relation to the pot, the electrode having an oil passage therethrough, an upper sparking electrode terminating adjacent the oil passage in the lower electrode, and capillary means for carrying oil from the pot surface adjacent the periphery of the lower electrode under it and up through the oil passage therein whereby the sparking action may heat the lower electrode above the temperature of the pot and the oil drawn up near the upper electrode may be vaporized and ignited by the spark.

---

**2,388,909**
**ELECTRIC IGNITION SYSTEM FOR GASEOUS FUEL BURNERS**
**Bradley C. Douglas, Clayton, Mo., assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey**
**Application August 25, 1942, Serial No. 456,070**
**3 Claims. (Cl. 175—115)**

1. An electric ignition arrangement comprising, a ported gaseous fuel burner, an open-ended and elongated flash tube having one end positioned adjacent and in ignition relationship with

a port of said burner, said tube receiving gas issuing from said burner port and having its other end positioned remote to said port, an electric circuit and a source of current supply therefor, an electric ignition resistance element in said circuit and adapted to be heated by the normal flow of current in said circuit to a temperature sufficiently high to ignite gas, said resistance gas ignition element being positioned in said flash tube, a resistance controller element in said circuit with said resistance ignition element, said controller resistance element comprising an electricity resistance device and having a rapid increase of electrical resistance in response to an increase in its temperature and acting to reduce the current flow in said circuit in response to its increase in temperature, and said controller resistance element being positioned in said flash tube and subject to the heat generated by the flame burned at said burner port.



2,388,910

## ADHESIVES AND THEIR MANUFACTURE

Eric W. Eweson, New York, N. Y.

No Drawing. Application September 25, 1942, Serial No. 459,650
9 Claims. (Cl. 106—124)

1. The method of producing adhesive which comprises, producing yeast from sulphite waste liquor free from alcohol but in the presence of lignin, and heating the yeast so produced to a temperature of about 160° F. to 220° F. to sterilize, agglutinize and break down the cell walls of the yeast.

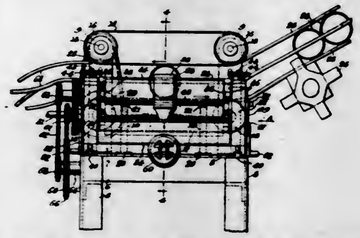
8. As an article of manufacture, an adhesive composed of sterilized, agglutinized yeast characterized in the undiluted state as a thick homogeneous liquid mass like thick glue and free from the grainy non-sticky appearance and character of the yeast before the cell walls are broken down.

2,388,911

## APPARATUS FOR APPLYING ADHESIVE TO CONTAINER BODY ENDS

Henry A. Fink, Pelham Manor, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application January 27, 1944, Serial No. 519,947
15 Claims. (Cl. 91—50)



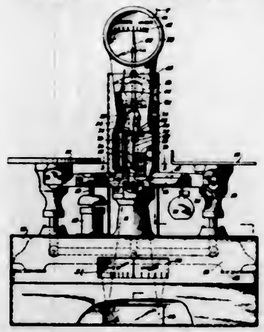
5. In apparatus of the character described, two endless belts having oppositely travelling flights thereof engaging at opposite sides at the periphery of container bodies for rotating the same, and means for applying adhesive to the ends of container bodies being rotated by said belts.

2,388,912

## SCALE

Rolf C. Haferl, New York, and August F. Hohne, Brooklyn, N. Y., assignors to The Jacobs Bros. Co., Inc., Brooklyn, N. Y., a corporation of New York

Application March 4, 1944, Serial No. 525,022
8 Claims. (Cl. 88—24)



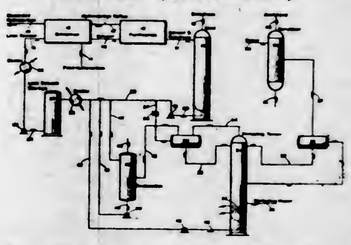
1. In combination a scale including a pivotally mounted beam, a support extending rearwardly of said beam and movable with the same, a source of light, a lens assembly adjacent such source, a screen to receive a light image projected by said assembly, means for creating an indicating shadow upon said screen, said means being carried by said support and extending in operative relationship to said assembly and substantially in line with the beam pivots, a substantially flat flexion strip, means for supporting one end of said strip to extend substantially in line with the point of pivotal mounting of said beam, means for connecting the opposite end of the same with said beam, and means for causing said strip to be placed under tension and accordingly bowed when said scale beam is in an even-balance condition.

2,388,913

## SEPARATING ACETYLENES FROM LIGHT HYDROCARBONS

Ike D. Hall, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application May 22, 1944, Serial No. 536,667
7 Claims. (Cl. 260—681.5)



1. In an absorption system wherein a rich aqueous solvent having dissolved therein diolefins and acetylenes is obtained, the steps of subjecting the rich solvent to fractional distillation to recover the major portion of the diolefin therefrom and obtain a relatively lean solvent, subjecting at least a portion of the relatively lean solvent to a second step of distillation under a pressure substantially below that at which the first distillation was conducted, removing from the second distillation step a first fraction comprising a major portion of acetylenes and a minor portion of diolefins, removing from the second distillation step a second fraction comprising a major portion of diolefins and a minor amount of acetylenes, and recovering substantially all of the diolefins from the second fraction by bringing them into intimate contact with a liquid capable of absorbing them.

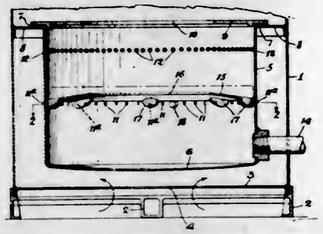


2,388,914

## POT TYPE BURNER WITH SCOOP PILOT RING

Bruce Hayter, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois

Application March 14, 1942, Serial No. 434,665
1 Claim. (Cl. 158—91)



In a pot type burner, a burner pot having a circumferential side wall and a bottom, means for delivering liquid fuel to a lower portion of the pot for vaporization, said side wall having primary air inlet apertures extending about the pot intermediate the top and bottom of the pot, means for delivering secondary air to an upper portion of the pot, a baffle ring located adjacent the level of said primary air inlet apertures, some of the primary air inlet apertures being positioned to deliver air below the baffle ring, the baffle ring having downwardly extending scoop portions aligned with other of said primary air inlet apertures and adapted to direct primary air to the interior of the pot above said baffle ring, the air inlet apertures aligned with said scoop portions being of materially larger diameter than the other primary air inlet apertures and in communication with the space below the baffle ring.

2,388,915

## NURSING NIPPLE

Herman Heilborn, Brooklyn, N. Y.

Application March 20, 1945, Serial No. 583,717
8 Claims. (Cl. 128—252)



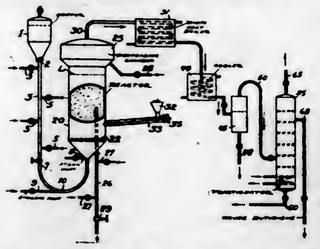
2. A nursing nipple comprising, in combination, a nursing tip, a breast member of greater radius than said tip and an attachment member, said breast member consisting of a thin arched front wall and a thickened bottom, part of said breast member projecting radially beyond said attachment member and being provided on said projecting part of its thickened bottom with a socket having a thin top wall.

2,388,916

## PROCESS FOR PREPARING DIOLEFINS FROM ETHYLENE, STEAM, AND CALCIUM CARBIDE

Clinton H. Holder, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 18, 1943, Serial No. 491,313
10 Claims. (Cl. 260—680)



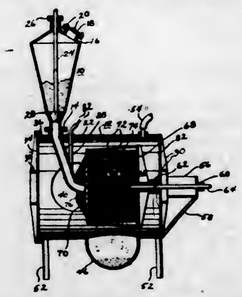
3. The method of continuously synthesizing butadiene in a reaction zone which comprises continuously forming acetylene in said zone by reacting calcium carbide with steam at temperatures of from 700 to 1000° F. and continuously feeding ethylene into said zone where it contacts nascent acetylene.

2,388,917

## PROCESS FOR PRESERVATION OF BIOLOGICAL MATERIALS AND PRODUCTS RESULTING THEREFROM

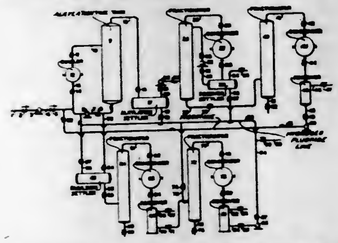
Jay C. Hormel, Austin, Minn., assignor to Geo. A. Hormel & Co., Austin, Minn., a corporation of Delaware

Application October 13, 1941, Serial No. 414,772
21 Claims. (Cl. 99—199)



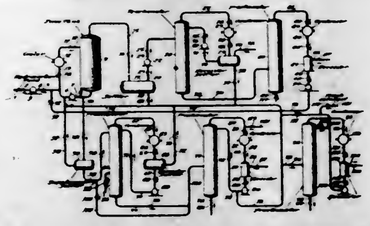
1. The process of dehydrating biological material which comprises drying the same by sublimation of the moisture while in the frozen state and under reduced pressure, and agitating the frozen material while being dried to shake off the dried material substantially as fast as the moisture is removed therefrom, whereby the surface of said frozen material has successive films of dried material formed thereon and removed, until the same is fully dried.

2,388,918
**HYDROGEN FLUORIDE ALKYLATION PROCESS**
John O. Iverson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 30, 1941, Serial No. 404,607
6 Claims. (Cl. 260—683.4)



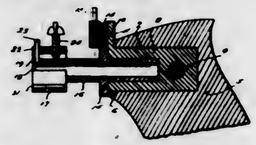
1. A process for reacting isoparaffins with olefins to produce saturated branched chain hydrocarbons which comprises subjecting a hydrocarbon mixture containing substantial proportions of said isoparaffins and said olefins to contact under alkylating conditions with hydrogen fluoride catalyst, separating the conversion products from the hydrogen fluoride, subjecting said conversion products to fractional distillation to remove light gases and dissolved hydrogen fluoride, withdrawing the alkylate as a reflux condensate, condensing and returning vaporous hydrogen fluoride from said fractional distillation to the reaction zone, separating from the reaction zone and fractionally distilling in a second fractionation zone a stream of used hydrogen fluoride whereby to separate organic material as reflux condensate and purified hydrogen fluoride as a vapor, condensing and returning a portion of the purified hydrogen fluoride to the reaction zone, subjecting another portion of the purified hydrogen fluoride to fractional distillation in a third fractionation zone whereby to separate a mixture of water and hydrogen fluoride as reflux condensate and substantially water-free hydrogen fluoride as a vapor and condensing and returning the substantially water-free hydrogen fluoride to the reaction zone.

2,388,919
**HYDROGEN FLUORIDE ALKYLATION PROCESS**
John O. Iverson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 21, 1942, Serial No. 459,110
3 Claims. (Cl. 260—683.4)



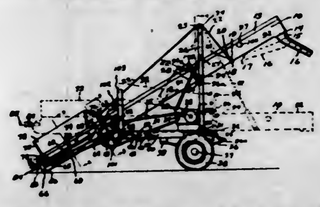
1. In the alkylation of isoparaffins with olefins in the presence of a hydrogen fluoride catalyst wherein contaminated catalyst is removed from the alkylation system and subjected to regeneration for the recovery of purified hydrogen fluoride suitable for reuse in the alkylation step, the improvement which comprises fractionating said contaminated hydrogen fluoride in a first fractionation zone for the separation of low boiling hydrocarbons dissolved in said contaminated catalyst, subjecting the bottoms product from said first fractionation step to further fractionation in a second fractionation step wherein an overhead distillate comprising essentially hydrogen fluoride and water is separated from a bottoms product comprising essentially higher boiling hydrocarbons, returning a portion of said overhead distillate to the alkylation step, subjecting another portion of said overhead distillate to fractionation in a third fractionation step wherein substantially anhydrous hydrogen fluoride is removed overhead from a bottoms product comprising a hydrogen fluoride-water mixture, and returning said substantially anhydrous hydrogen fluoride to the alkylation step.

2,388,920
**FILE HOLDER**
Meri Alden Jaynes, Visalia, Calif.
Application May 3, 1944, Serial No. 533,882
3 Claims. (Cl. 29—80)



1. A holder for files comprising a hand grip having a forwardly opening recess therein, a socket secured in said recess with an open front end, a barrel extending forwardly out of said socket and rotatable therein into different angular positions, means coacting with the forward end of said barrel to clamp a file therein, and means to frictionally lock said barrel in different angular positions comprising a riser on said socket extending above the hand grip, a circumferential collar on said barrel adapted to be clamped against said front end of said socket, a threaded member extending forwardly of the riser, and a locking disc on said member adapted to be turned against said collar to clamp the same between the disc and said front end of the socket, said disc having a radial finger grip pin thereon.

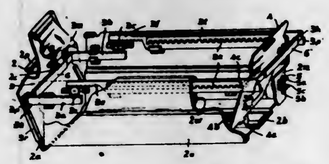
2,388,921
**PORTABLE TRUCK GRAIN ELEVATOR**
Ralph L. Kootker, Hull, Iowa
Application February 10, 1943, Serial No. 475,456
1 Claim. (Cl. 198—115)



A portable elevator comprising an elevator chute, a framework supporting said chute including a pair of vertical beams receiving the chute therebetween, said chute being pivotally attached to said framework, a windlass attached to said chute, pulleys attached between said vertical beams, cables attached to said chute passing over said pulleys and to said windlass to provide means for elevating said chute to desired elevation, said chute including a forward section, a rearward section pivoted to said forward section, means for folding said rearward section over said forward section to provide a reduced length to the elevator when being transported, means for extending said rearward section to completed length including side members attached to said rearward section adapted to engage said cables, whereby raisable movement of said cables will pivot said rearward section on said forward section to said completed length, a cradle member attached to said framework for supporting said rearward section when in folded position.

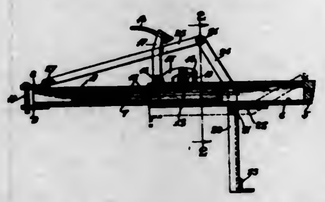


2,388,922
**SWING FRONT FACE DRAWER FOR VERTICAL FILING CABINETS**
Auguste Hubert Lieaken, Brussels, Belgium; vested in the Alien Property Custodian
Application June 26, 1941, Serial No. 399,921
In Belgium December 31, 1940
10 Claims. (Cl. 45—2)



10. A drawer for a vertical filing cabinet, comprising a tiltable front, a tiltable follower in the drawer shiftable toward and away from the front, operating means for reversing the tilting movements of the front and follower including a pair of rack members, one being U-shaped and mounted on the front with its toothed extensions extending rearwardly therefrom, a guideway on the front mounting the U-shaped rack member thereon, a slide block in the guideway, a hinged connection between the block and said U-shaped rack member, and rack mechanism cooperating with said rack members and producing tilting of the follower in synchronism with the front.

2,388,923
**RETRACTABLE VEHICLE SUPPORT**
Phillip Masters, Broadwater, Nebr.
Application December 27, 1944, Serial No. 569,997
3 Claims. (Cl. 280—33.44)



1. A tongue support for a trailer vehicle and comprising a member slidably carried by the tongue and providing a connection between the tongue and a towing vehicle, a pivoted supporting member attached to the tongue with its lower end adapted to rest on the ground, means connecting the supporting member to said sliding member for raising and lowering the former upon a sliding movement of the latter, and latch means operable from the towing vehicle to releasably connect the sliding member to the tongue.

2,388,924
**EXHAUST MANIFOLD FOR INTERNAL-COMBUSTION ENGINES**
Pierre Ernest Mercier, New York, N. Y.
Application May 4, 1943, Serial No. 485,593
7 Claims. (Cl. 60—29)



4. In a multi-cylinder internal combustion engine; in combination, a common exhaust manifold for a plurality of adjacently arranged cylinders having individual connecting conduits for the exhaust ports of said cylinders, and means establishing flexible connections between said connecting conduits and said engine cylinders.

2,388,925
**SEALING DEVICE**
William Messinger, Philadelphia, Pa.
Application December 16, 1942, Serial No. 469,178
1 Claim. (Cl. 286—5)

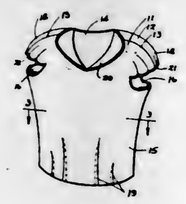


In a seal between a shaft and a casing, a U-shaped circular housing adapted to be secured to the casing, and a resilient packing ring disposed in the housing, the ring having an annular recess with a narrow entrance slot in its outer wall, the outer surface of the ring being slightly convex in its central portion and the outer diameter of the ring being slightly greater than the inner diameter of the housing, the inner diameter of the ring being slightly less than the diameter of the shaft, so that when the seal is inserted in the housing a slight pressure is developed on the elements of the outer wall of the ring whereby a slight lateral pressure is developed for holding the side walls of the ring in close engagement with the housing and for holding the inner surface of the ring in close engagement with the shaft.

2,388,926
**BLOUSE**
Sara Mirsky, Forest Hills, N. Y., assignor, by mesne assignments, to Maison France, New York, N. Y., a firm composed of Seymour Levine, New York, N. Y., and George Richardson, Bronx, N. Y.
Application September 29, 1944, Serial No. 556,306
3 Claims. (Cl. 2—105)

1. A blouse, comprising a substantially flat cloth member having a centrally located neck

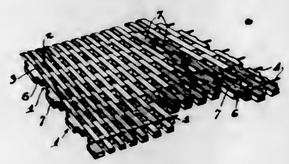
opening and shoulder portions to the sides of said neck opening and a front panel and a back panel to the front and to the back of said neck opening, said shoulder portions having their ends



set inwards of the side edges of said panels providing side portions at the sides of said panels which may overlap selected amounts beneath the arm pits.

---

**2,388,927**
**LINK MAT**
**Dudley W. Moor, Jr., Toledo, Ohio**
**Application August 4, 1943, Serial No. 497,290**
**1 Claim. (Cl. 20—78.3)**

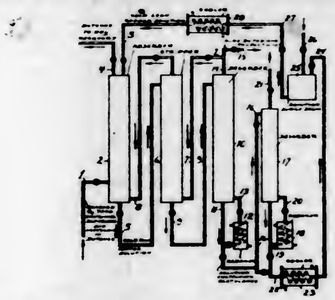


A mat of the class described, having a plurality of parallel cross rows of links, and pivot members being transverse to and connecting the links of successive rows at their adjacent ends in end lapping relation, the end links of alternate rows forming the side edges of the mat and being endwise spaced with the outer corners of their ends notched to form pivot member engaging ears against which the respective ends of the pivot members are shouldered and to form the links with laterally protuberant body portions of a length slightly less than the distance between opposed faces of adjacent notches, whereby when two mats are placed side edge to side edge the protuberant portions fit into the notches of corresponding portions of the end links of the other mat with the pivot members of the two mats substantially aligning.

---

**2,388,928**
**SEPARATING BUTADIENE FROM ACETYLENES**
**Charles E. Morrell, Roselle, and Miller W. Swaney, Linden, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**Application September 26, 1942, Serial No. 459,758**
**9 Claims. (Cl. 260—681.5)**

1. Process of separating and segregating diolefins from hydrocarbon mixtures containing diolefins and alkyl acetylenes which comprises contacting the hydrocarbon mixture with a basic cuprous salt solution, separating the cuprous phase from the unabsorbed hydrocarbons, and subjecting the basic copper salt solution to successively higher temperatures to fractionally re-



lease diolefins and alkyl acetylenes separately in substantially pure form.

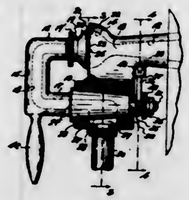
---

**2,388,929**
**PREPARATION OF OLEFINIC HYDROCARBONS**
**Henry O. Mottern, Hillside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application December 31, 1941, Serial No. 425,137**
**5 Claims. (Cl. 260—682)**

1. The method of recovering olefins from alcohol-acid extracts which comprises diluting the acid extract with water to an acid concentration of from 5 to 40% on an alcohol-free basis, heating the diluted extract in a reaction vessel to a temperature of from 100° F. to 400° F. under pressures ranging from 20 to 150 lbs./sq. in. for a time sufficient to form olefin and removing olefin at the pressure maintained within the reaction vessel.

---

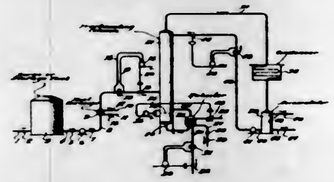
**2,388,930**
**INSPIRATOR FOR GAS BURNERS**
**Auben E. Moxley, East Orange, N. J.**
**Application July 6, 1944, Serial No. 543,646**
**9 Claims. (Cl. 158—120)**



1. Inspirator means for gas burners comprising a Venturi section, a gas delivery and spud holder means having a discharge portion normally aligned with and opposed to the intake end of said Venturi section, said discharge portion having a gas discharge spud, an air shutter member also carried by said discharge portion for cooperation with the intake end of said Venturi section, means to movably mount said gas delivery and spud holder means subject to manipulation for temporarily displacing the discharge portion thereof from operative relation to said Venturi section, whereby to accessibly expose said spud and air shutter member for cleaning.



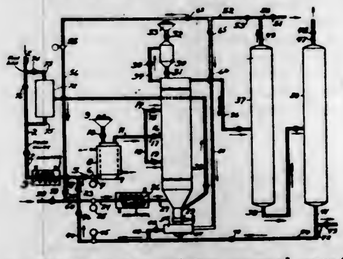
**2,388,931**
**FRACTIONATION**
**Edwin F. Nelson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application January 31, 1944, Serial No. 520,578**
**3 Claims. (Cl. 196—94)**



1. A method of fractionating a multi-component fluid material which comprises introducing said material at a substantially uniform rate into a fractionating column, withdrawing liquid at a substantially uniform rate from the bottom of said fractionating column, removing vaporous material overhead from said column, cooling said vaporous material and supplying a portion of the resultant condensate at a substantially uniform rate to the top of said fractionating column as reflux therefor, and supplying heat to the bottom of said column at a rate varying in response to changes in the liquid level in the bottom of said column, said rate being increased with increasing liquid level and decreased with decreasing liquid level.

---

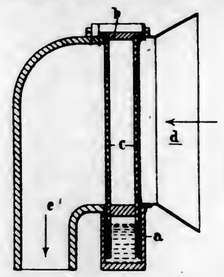
**2,388,932**
**CONTINUOUS ISOMERIZATION PROCESS**
**Henry J. Ogorzaly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application November 20, 1942, Serial No. 466,244**
**15 Claims. (Cl. 260—683.5)**



1. A process of isomerizing normal paraffin of at least four carbon atoms per molecule in the vapor phase which comprises passing said normal paraffin vapor together with hydrogen halide vapor under isomerization reaction conditions through a bed of aluminum chloride sorbed in a porous carrier to effect isomerization as the principal reaction in which said catalyst bed is formed by introducing all the aluminum chloride content therein at a point in said bed intermediate the point of introduction of the normal paraffin and hydrogen halide into said bed and the point of withdrawal of the reacted mixture from the reaction zone, the introduction of the aluminum chloride being regulated as to amount and frequency of addition so that the concentration and activity of aluminum chloride in the carrier is higher at the point of said introduction of the feed stock into the catalyst bed than at the point of withdrawal of the reacted mixture the greatest concentration of aluminum chloride being intermediate these two points.

---

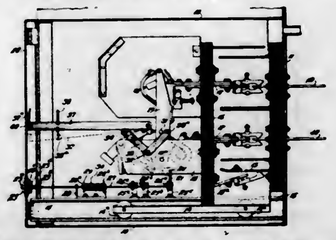
**2,388,933**
**AIR FILTER**
**Herbert Pearson, Liversedge, England**
**Application August 23, 1944, Serial No. 550,783**
**In Great Britain August 19, 1943**
**2 Claims. (Cl. 261—107)**




1. The combination with the elbowed inlet pipe end of a carburetor or the like of a frame open at opposite sides and having recesses along the edges of the openings to accommodate the pipe end at the opening at the inner side, an oil sump carried with the lower end of the frame and provided with at least one opening communicating with the interior of the frame, at least one foraminous sheet of intertwined textile and metallic threads arranged across the opening of the frame and extended through the opening into the sump, an air inlet funnel accommodated within the recessed opening at the outer side of the frame, and means for releasably clamping the parts together.

---

**2,388,934**
**CIRCUIT BREAKER CONTROL MECHANISM**
**Harold E. Pearson, Bethlehem, Pa., assignor, by mesne assignments, to Realty and Industrial Corporation, Convent, N. J., a corporation of New Jersey**
**Application February 27, 1942, Serial No. 432,571**
**13 Claims. (Cl. 200—168)**

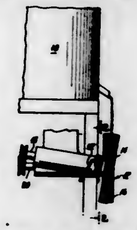


1. The combination of a movable circuit breaker unit, a movable element of said unit for tripping the breaker to open position upon actuation thereof, a compartment including a door for enclosing said unit, movable means within the compartment extending towards the door and including a portion adapted to engage said movable element and located in the path of movement of said movable element upon movement of said unit, said means being disassociated from said door, manually operable means mounted on

the door and operable from the front of the door for actuating said movable means to trip the breaker, and means for moving said portion out of the path of movement of said movable element upon opening the door.

---

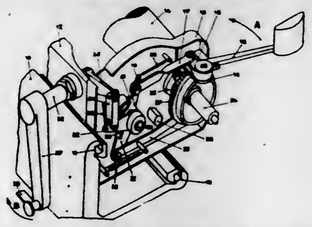
**2,388,935**
**MINERAL WOOL MANUFACTURE**
**Edward R. Powell, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application April 29, 1943, Serial No. 485,010**
**7 Claims. (Cl. 49—1)**



1. In a mineral wool apparatus, means for disintegrating a stream of molten material into fibers, said means comprising a rotor having a cylindrical surface on which said stream impinges and end surfaces having peripheries defining said cylindrical surface, and means for applying a binder to said fibers, said last-named means comprising a spray head supported adjacent one end surface of the rotor and having a substantially continuous annular port positioned for directing a binder spray adjacent the periphery of said one end surface.

---

**2,388,936**
**LINE SPACING DEVICE FOR TYPEWRITERS**
**Giuseppe Prezioso, Yverdon, Switzerland, assignor to E. Paillard & Cie S. A., a corporation of Switzerland**
**Application November 22, 1943, Serial No. 511,296**
**In Switzerland November 26, 1942**
**3 Claims. (Cl. 197—114)**



1. A device for the controlling and actuating of the movements of the platen of a typewriter or like machine, the moving part bearing the platen having two interline levers, for line-spacing the platen, one being operated manually, the other one being operated mechanically, the movements of these two levers being transmitted to the platen by one and same mechanical means, which is composed by levers forming a parallelogram having two opposite sides, one of which transmits the manual control only, and the other of which transmits either manual or mechanical control to the platen.

**2,388,937**
**TREATMENT OF HYDROCARBON OILS**
**Louis Schmerling and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application September 9, 1940, Serial No. 356,040**
**20 Claims. (Cl. 196—53)**

1. A process for the destructive hydrogenation of hydrocarbonaceous material which comprises reacting said material mixed with hydrogen in the presence of a zinc chloride and aluminum oxide.

---

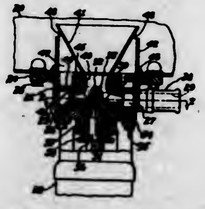
**2,388,938**
**FIRING HEAD FOR GUN PERFORATORS**
**James G. Smylie, Houston, Tex.**
**Application August 31, 1944, Serial No. 552,165**
**14 Claims. (Cl. 164—0.5)**



1. A firing mechanism for gun perforators comprising a body, a detonator cap therein, a hammer to strike said cap, spring means to be cocked to snap said hammer, means to retract said hammer against said spring including a rod movable axially to lift said hammer axially, and means movable relative to said body upon rotation of said body relative thereto to release said rod.

---

**2,388,939**
**PUMP FOR FUEL SYSTEMS**
**Alexey J. Stepanoff, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application January 20, 1943, Serial No. 472,949**
**2 Claims. (Cl. 103—113)**

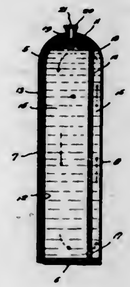


1. In combination with a liquid-supply receptacle, a pump casing having an impeller chamber and a discharge chamber, said casing having a bore opening into the impeller chamber, an impeller in the impeller chamber to receive liquid from the receptacle and pump such liquid into the discharge chamber, a discharge nozzle for conveying liquid from the discharge chamber, a hub on the impeller extending into the bore in spaced relation therewith to define an annular channel between the walls of the bore and the periphery of the hub for conveying such gas and vapor from the discharge chamber as will evolve from the liquid, and conduit means for conveying such gas and vapor from the channel to a point in the receptacle remote from the point of entry of the liquid into the impeller.



---

**2,388,940**
**SOLAR HEATER**
**Robert H. Taylor, Mayfield, Ky.**
**Application May 8, 1944, Serial No. 534,633**
**2 Claims. (Cl. 126—271)**

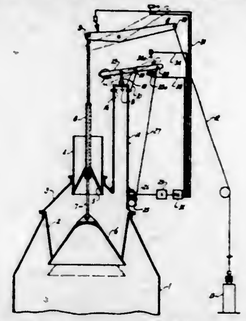


1. A solar heater comprising a substantially rectangular, relatively narrow tank of substantial height and length, arranged and adapted to contain a liquid to be heated, said tank being positioned in use with one of its narrow sides lowermost and the opposite narrow side uppermost, one of the major outer walls of the tank being heat conductive and exposed to the rays of the sun and all of the other outer walls of the tank having inner linings spaced therefrom with a filler of insulation material therebetween, and a partition located in said tank in relatively close spaced relation to said heat conductive wall but in greater spaced relation to the opposite major insulated wall so as to provide a relatively narrow heating chamber and a storage chamber of substantial width and capacity, said partition having openings therethrough adjacent its opposite upper and lower sides for the circulation of the contained liquid in the tank from one of said chambers to the other.

---

**2,388,941**
**BLAST FURNACE CHARGING BELL**
**Guy Wehr, Steubenville, Ohio**
**Application December 22, 1944, Serial No. 569,330**
**4 Claims. (Cl. 266—27)**

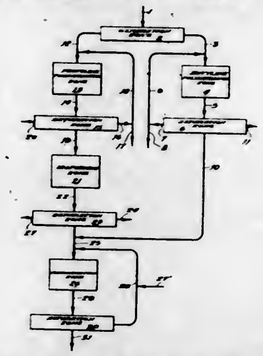
1. In a blast furnace, a charging chamber having a small bell in the top for charging said chamber and a large bell in the bottom for discharging said chamber, a vent for said chamber communicating with the atmosphere to at all times maintain atmospheric pressure between the bells when both are in their closed position, a valve controlling said vent operatively connected to be movable coordinately with the movement of the discharge bell to close the vent when



the bell is in open position and open said vent when the bell is in closed position.

---

**2,388,942**
**CONVERSION OF HYDROCARBONS**
**Gordon B. Zimmerman, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application April 17, 1944, Serial No. 531,345**
**3 Claims. (Cl. 260—683.6)**



1. A process for the production of more valuable products from $C_3$ and $C_4$ gaseous olefins which comprises separating the $C_3$ olefins from the $C_4$ olefins, separately polymerizing the $C_3$ and $C_4$ olefins, subjecting the resultant polymers of the $C_3$ polymerizing step to the action of an olefin isomerizing catalyst under isomerizing conditions, combining the resultant products of the $C_4$ polymerizing step without subjecting the same to isomerization with the resultant products of the isomerizing step, and hydrogenating the mixture to form a substantially saturated gasoline of high octane rating.

---

**2,388,943**
**DISINTEGRATING AMMUNITION LINK**
**Horace J. Alter, West Hollywood, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California**
**Application August 11, 1942, Serial No. 454,366**
**2 Claims. (Cl. 89—35)**

1. A disintegrating ammunition belt including a first link and a second link, each adapted to

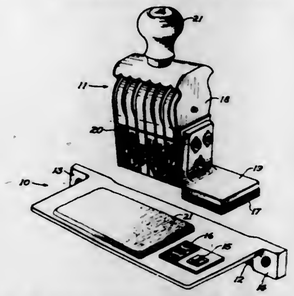
carry a shell, each link comprising a base member having a pair of substantially rigid outstanding arms at each end formed to receive and position a shell in the link, pins rigidly attached to the arms at one end of said base member, the arms at the other end of said base member having notches, said links being related so that the pins on the second link engage in the notches in the arms of the first link to constitute a pivotal connection between the links, a spring element attached to the base member of each link, each spring element having outstanding fingers adjacent said arms of the respective base member adapted for receiving and releasably retain-



ing a shell, and keepers formed on the fingers adjacent the notched arms of the base member of the respective link, the fingers of said first link which carry the keepers being constructed and arranged to flexibly extend and move their respective keepers under the pins in the notches of the first link to prevent disengagement of said pins from the notches as long as the shell is retained in the first link, and to automatically spring back when the shell is removed from the first link and thereby release the pins from the notches in the first link to allow the force of gravity to disengage said second link from said first link.

---

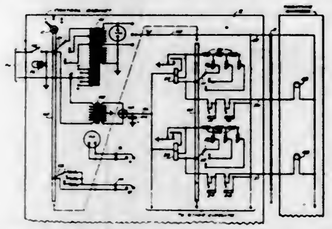
**2,388,944**
**FLAT HOSIERY KNITTING MACHINE AND MARKING ATTACHMENT THEREFOR**
**Edward R. Ammon, Reading, Pa.**
**Application November 22, 1944, Serial No. 564,590**
**17 Claims. (Cl. 101—333)**



1. In a multi-section flat knitting machine, printing mechanism for marking article blanks in the course of knitting with identifying information comprising printing means mounted in each machine section on one side of the path of article blank delivery intermediate the knitting mechanism and fabric draw-off mechanism for engagement with one side of the article blanks and having printing indicia for marking the article blanks with certain identifying information, and portable printing means movable from one to another machine section and operable in conjunction with the printing means mounted in each machine section, said portable printing means having printing indicia for marking the article blanks with other identifying information.

---

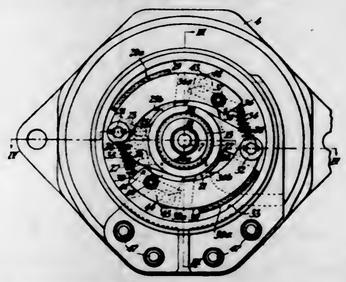
**2,388,945**
**FILAMENT-TREATING SYSTEM**
**Frank A. Barta, Palos Heights, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois**
**Application October 2, 1942, Serial No. 460,729**
**12 Claims. (Cl. 315—364)**



9. In a system for treating a group of similar filaments by the passage of electric current therethrough, a treating circuit including a common current source and a separate parallel branch for each filament, each branch including a test means for indicating that the treating current therein has reached the required final value for the type of filament being treated, selecting means having positions corresponding respectively to said types of filaments; and means responsive to separate selecting means being placed in any one of said positions for predetermining the output potential of said current source, and for adjusting the sensitivity of each of said test means, according to the type of filament to which such position corresponds.

---

**2,388,946**
**SPEED GOVERNOR**
**Charles R. Beall, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application January 1, 1943, Serial No. 471,069**
**6 Claims. (Cl. 188—184)**



1. A governor comprising a driving member, a second member constrained to rotate with said driving member but free to move due to its inertia through a limited angular distance relative to said driving member, governor elements pivotally attached to said second member, and biasing means connected with said governor elements for biasing said elements to one position, said biasing means being connected with said elements through means responsive to the relative angular positions of said driving member and said second member and effective to cause said biasing means to exert on said elements one biasing force when said driving member is rotated in one direction and another biasing force when said driving member is rotated in the opposite direction.



---

**2,388,947**
**DRYING OIL SUBSTITUTE AND METHOD OF MAKING THE SAME**
**Carlisle H. Bibb and Robert C. Palmer, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware**
**No Drawing. Application November 25, 1942, Serial No. 466,922**
**3 Claims. (Cl. 260—666)**

3. The method of preparing a drying oil substitute by the pyrolysis of terpene hydrocarbons, which comprises subjecting a terpene hydrocarbon to thermal decomposition by means of an incandescent element immersed in a liquid body of such terpene hydrocarbon until a substantial proportion of polymer has been formed, steam distilling the resulting mass at a temperature of between 150 and 170° C. to remove portions volatile under those conditions, and recovering as residue an oily polymer having a specific gravity at $15/_{40}$° C. of at least 0.97 and a refractive index, $D_{20}$°, of at least 1.54.

---

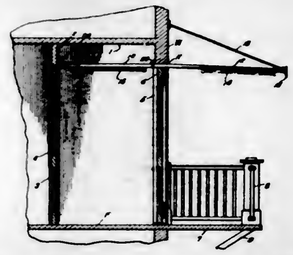
**2,388,948**
**TUBE SIZING BROACH**
**John Y. Blazek, Bedford, Ohio, assignor to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio**
**Application March 4, 1943, Serial No. 477,988**
**1 Claim. (Cl. 29—90)**



A broach having faces which are parallel with each other and perpendicular to the axis of the broach, and a pair of axially-spaced teeth, one of which is of slightly smaller diameter than the other, each tooth having a cross-sectional contour consisting of a portion which is parallel to the axis of the broach, a portion in the form of an arc of relatively small radius and a portion in the form of an arc of considerably larger radius than that of the first-named arcuate portion, the smaller arcuate portion of one tooth connecting the parallel portion of said tooth with one of said faces and the larger arcuate portion of the other tooth connecting the parallel portion of the other tooth to the other of said faces, and the other arcuate portions of said teeth being joined by a reentrant arc of relatively large radius, providing an annular space between said teeth.

---

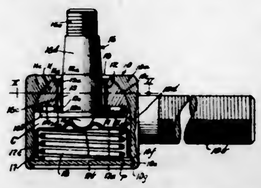
**2,388,949**
**CLOSET VENTILATING SYSTEM**
**Ralph H. Bloxham, Mobile, Ala.**
**Application September 19, 1944, Serial No. 554,780**
**4 Claims. (Cl. 20—1.11)**



1. Sun-air closet comprising enclosing walls, one of which is an exterior wall of the building, a doorway from the interior of the building through one of the interior walls, a doorway through the exterior wall, a rail extending at door height across the closet and exterior of the building, a rod for supporting clothes and roller carriages to support the rod from the rail, whereby the rod can be positioned on the rail interiorly of the closet or exteriorly of the building as desired.

---

**2,388,950**
**ROLLER-BEARING JOINT ASSEMBLY**
**James H. Booth, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application August 31, 1944, Serial No. 552,125**
**6 Claims. (Cl. 287—90)**



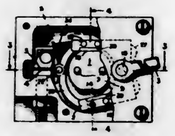
6. A joint assembly comprising a stud having a shank portion and an outturned flange at one end of the shank portion, a seat member having an external tilting surface, an end face and an aperture therethrough, antifriction bearings in said aperture of the seat member and disposed around the shank portion of the stud, additional antifriction bearings between said end face of the seat member and said outturned flange of the stud, a housing tiltably receiving said seat member, and a spring-urged member in said housing acting on said stud to maintain the parts in operative assembly.

---

**2,388,951**
**SNAP-ACTING DEVICE**
**George W. Bower, Harbor Creek, Pa., assignor to General Electric Company, a corporation of New York**
**Application November 24, 1944, Serial No. 564,941**
**4 Claims. (Cl. 74—97)**

1. A double snap-action device comprising a bar type permanent magnet having pole faces at

opposite ends thereof, a pair of segmental magnetic shunt paths along opposite sides of said magnet comprising alternate sections of magnetizable and non-magnetizable material mounted upon said magnet between said pole faces, a substantially U-shaped armature member pivotally mounted upon an axis substantially parallel to the principal axis of said magnet and having legs embracing the sides of said magnet, each said leg



including a segmental armature comprising alternate sections of magnetizable and non-magnetizable material, said armatures being alternatively engageable with said shunt sections with the non-magnetizable sections of said armature and shunt paths in staggered relation, and spring means for moving said armature members between alternative positions of armature engagement with a snap action.

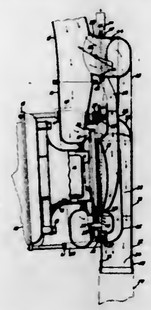
---

2,388,952

**AIRCRAFT GAS TURBINE ARRANGEMENT**

**Eugene S. Clark, Lynn, Mass., assignor to General Electric Company, a corporation of New York**

**Application July 9, 1940, Serial No. 344,562**
**4 Claims. (Cl. 253—39)**
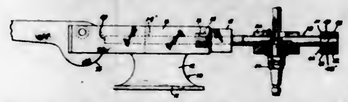


1. Aircraft gas turbine arrangement comprising a gas turbine having a bucket wheel mounted with its axis substantially perpendicular to the direction of the slipstream and a nozzle box for conducting gases to the wheel, a conduit for conducting gases to the nozzle box having a valved waste gas conduit for bypassing gases with regard to the nozzle box, and a combined flighthood and waste gas discharge device enclosing the discharge side of the wheel for discharging gases from the waste gas conduit and the bucket wheel to the atmosphere, said flighthood having a discharge opening located beyond the trailing portion of the wheel and an inlet opening radially outward from the leading portion of the wheel and connected to said conduit and a partition to form separate channels for receiving gases issuing from the wheel and waste gases from said conduit to preclude mixing of these gases in proximity to the wheel.

2,388,953

**SPARK PLUG GAP ADJUSTER**

**Joseph C. Coombs, Santa Ana, Calif.**

**Application July 1, 1944, Serial No. 543,184**
**5 Claims. (Cl. 153—48)**



1. In a spark plug gap adjusting device, a body portion, a head member, means to movably support the head member on said body portion, said head member having a hole therethrough, a bushing, means to rotatably support the bushing in the hole, said bushing having a threaded hole, said bushing threaded hole being adapted to receive the threads on a spark plug and the parts being so arranged that the electrodes on the spark plug will project into the body portion hole, said head member having opposed, transverse, aligned bores, said transverse bores intersecting said hole, an anvil member mounted in each of said transverse bores, one of said anvil members being fixed relative to the body portion, the other anvil member slidably extending through the body and having an end portion remote from the head, and means to move the other anvil member towards the first anvil member.

---

2,388,954

**CONNECTOR**

**Raymond H. Corliss, Washington, D. C., assignor of one-half to James Papanicolas, Washington, D. C.**

**Application July 20, 1943, Serial No. 495,474**
**7 Claims. (Cl. 20—92)**



1. A connector for joining sections of material comprising, a plurality of tubular members to be inserted through the sections of material to take the load stresses at the joint, said tubular members being of a length slightly less than the aggregate thickness of sections to be joined but greater than the aggregate thickness of the sections minus one section, a bolt for clamping the sections together, and means carried on either end of said bolt contacting the exterior faces of the outer of said joined sections and overlying at least a portion of the end of said tubular members whereby longitudinal movement of the tubular members is prevented.

---

2,388,955

**VARIABLE-SPEED POWER TRANSMISSION**

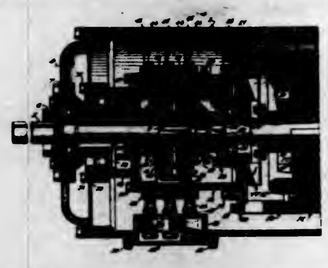
**Kibbey W. Couse, Newark, N. J.**

**Application April 1, 1944, Serial No. 529,061**
**13 Claims. (Cl. 172—36)**

1. A variable speed power transmission comprising, an elongated housing unit, an induction motor positioned within the housing and having what is usually termed a stator and rotor, both the stator and rotor being mounted for rotation



within the housing, an output or load shaft extending from one end of the housing, both the stator and rotor being connected to the output



shaft through a differential type of gearing, and means for retarding the rotation of either the stator or rotor from maximum to zero speed for the purpose described.

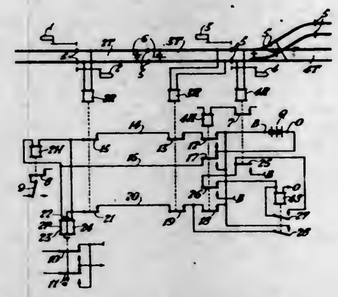
---

2,388,956

**ELECTRICAL CONTROLLING APPARATUS**

**Paul H. Crago, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**

**Application June 19, 1943, Serial No. 491,447**
**7 Claims. (Cl. 246—33)**



1. In a railway signal control system including a polarized signal relay controlled by pole changing contacts of a control relay for a signal in advance of the signal which is controlled by said polarized signal relay, including a traffic responsive contact for the portion of track between said signals for also controlling said polarized signal relay, including a directional control relay, and including means responsive to a train upon passing the signal in advance after having passed over the track between said signals for energizing said directional control relay, the combination comprising, a neutral relay, an operating winding for said neutral relay comprising a first and second portion and connected in multiple with said polarized signal relay, a common terminal for said first and second portions, and a control circuit path connected between said common terminal and one of the terminals of the source of current for the control circuits for said polarized relay including contacts controlled by said directional control relay and by said control relay for said signal in advance connected in multiple with each other and also including a traffic responsive contact for the portion of track between said signals.

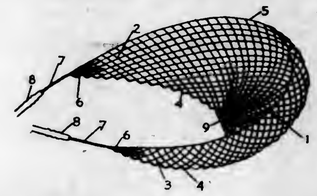


2,388,957

**HAIR NET**

**Lilly Daché Després, New York, N. Y., assignor, by mesne assignments, to Weco Products Company, Chicago, Ill., a corporation of Illinois**

**Application March 29, 1943, Serial No. 480,944**
**2 Claims. (Cl. 132—49)**



1. A hair net including an elongated one-piece sheet of netting, a reinforced edge on one side of said sheet, a cord edge on the other side of said sheet, said sheet being gathered transversely at each end to provide tapering end portions, an anchoring element attached to each of said end portions, and said sheet being gathered longitudinally substantially centrally thereof and adjacent said reinforced edge only with the gathering plaits running substantially transversely of the sheet to define a pouch-like intermediate portion.

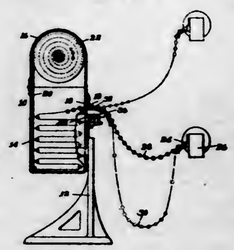
---

2,388,958

**AMMUNITION FEED DEVICE**

**Gerald W. Downer, deceased, late of Beverly, Mass., by Harold E. Murphy, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**

**Application April 9, 1943, Serial No. 482,457**
**1 Claim. (Cl. 89—33)**

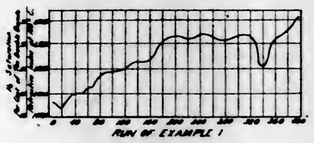


In combination, a stationary ammunition container having an outlet opening for a cartridge belt, a machine gun beside said container and spaced horizontally therefrom, a downwardly directed cartridge belt support affixed to the container immediately beneath the outlet opening, said support terminating at a substantial distance from the gun, and an upwardly spring-pressed detent projecting through a descending portion of the support sufficiently to engage a belt resting upon the support, said gun being flexibly mounted for elevation adjustments to positions in which the cartridge receiver of the gun is higher and lower than said outlet opening, whereby a cartridge belt moving from the container to the gun will be lifted away from the detent when said receiver is elevated above said outlet opening.

## 2,388,959
## REGENERATION OF NICKEL ALLOY CATALYSTS

John Drew, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application October 24, 1941, Serial No. 416,320
9 Claims. (Cl. 252—237)

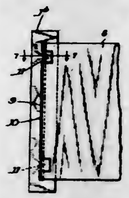


8. A process for the regeneration of a "spent" lump hydrogenation catalyst comprising essentially a material selected from the group consisting of nickel-aluminum and nickel-silicon alloys which process comprises heating the catalyst in contact with rosin at a temperature of about 650° F., removing said rosin, and thereafter blowing superheated steam through the catalyst at the aforesaid temperature.

## 2,388,960
## DEVICE FOR BINDING

Henry Einzig, Chicago, Ill., assignor to Stemar Displays Company, Chicago, Ill.

Application February 13, 1943, Serial No. 475,829
6 Claims. (Cl. 129—1)



4. A binding device, comprising, in combination with double sheets adapted to be bound thereby, a body having a slot formed therein receiving said sheets therethrough, and ears on a portion of said body disposed transversely of the slot and arranged outwardly of the same and the body in opposed relation, said ears engaging and bearing upon adjacent portions of the outermost of said sheets.

## 2,388,961
## PHOTOMECHANICAL TYPOGRAPHICAL COMPOSING MACHINE

Richard Cornelius Elliott, Redhill, Maurice Richard Dewhurst, Coulsdon, and Joseph Bourdas Smith Booth, Redhill, England, assignors to The Monotype Corporation Limited, Redhill, England, a British corporation

Application October 1, 1943, Serial No. 504,576
In Great Britain April 16, 1943
20 Claims. (Cl. 95—4.5)

1. In a photo-mechanical typographical composing machine, the combination of, a projection lens, an image-bearing master plate, means controllable by a record-strip for selectively moving the master plate relatively to the focal axis of the lens, a stationary support for a light-sensitive element at a fixed focal plane, a reflector arranged between the said lens and said focal plane, and means controllable by a record-strip for impart-



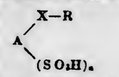
ing successive linear movements to the reflector relatively to the axis of the said lens and focal plane and maintaining a constant focal length.

## 2,388,962
## DRY CLEANING COMPOSITION

Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application January 24, 1938, Serial No. 186,733
18 Claims. (Cl. 252—161)

1. A dry cleaning composition adapted for use in the dry cleaning of textile and fibrous materials, comprising a volatile organic liquid of the dry cleaning type and as a dry cleaning assistant a minor proportion of an oil-soluble salt of an alkyl aromatic sulfonate in which the alkyl group contains 20 to 30 carbon atoms and corresponding in the free acid form with the formula



wherein A is an aromatic residue, R is an alkyl group containing 20 to 30 carbon atoms and which may be substituted by a member of the group consisting of hydroxy, alkoxy, aryl and halogen, X is a linkage joining a carbon atom of the alkyl group R to a carbon atom of the aromatic nucleus A and selected from the group consisting of direct linkage, linkage through an oxygen atom, and linkage through one of the radicals —NH—, —NHCO—, —CO—, and —COO—, and $n$ is a small whole number.

17. A mineral oil composition comprising: a mineral oil fraction and in admixture therewith a minor proportion of an oil-miscible metal salt of an alkyl aromatic sulfonate characterized by the presence of an alkyl-substituted aryl nucleus in which the alkyl substituent is a hydrocarbon radical containing 20 to 30 carbon atoms.

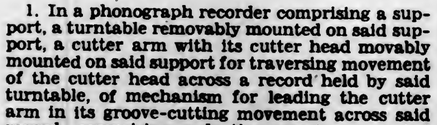
## 2,388,963
## CYANINE DYESTUFFS

Douglas James Fry and John David Kendall, Ilford, England, assignors to Ilford Limited, Ilford, Essex, England, a British company

No Drawing. Application January 21, 1938, Serial No. 186,251. In Great Britain January 22, 1937
24 Claims. (Cl. 260—240)

1. A process for the production of a dyestuff comprising condensing quinaldine methiodide with 5-acetanilido-methenyl-N-methylrhodanic acid in the presence of pyridine and fusing the product with quinaldine and ethyl-p-toluene sulphonate and heating the fused product with pyridine.

5. The method of producing dyestuffs which comprises condensing a compound of the general formula:



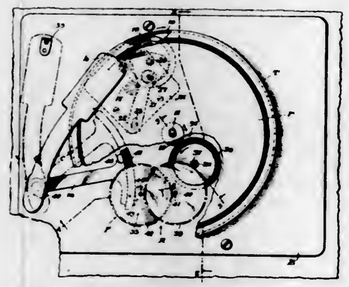
where $p$ is a numeral taken from the group consisting of 0 and 1, $n$ is a numeral taken from the group consisting of 0 and 1, $m$ is a positive small integer, $R_1$ and $R_2$ are hydrocarbon groups, X is the residue of a heterocyclic nitrogen compound of the type used in the preparation of cyanine dyes, Y is an atom selected from the group consisting of oxygen and sulphur and Z is an atom selected from the group consisting of sulphur and selenium, with an alkyl salt to convert the group Z into a reactive group, and condensing the product with an organic compound containing a group selected from the class consisting of reactive methyl and reactive methylene groups.



## 2,388,964
## PHONOGRAPH RECORDER

Leo B. Glaser, Cranford, and Robert G. Franey, Irvington, N. J., assignors to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey

Application January 1, 1943, Serial No. 471,032
6 Claims. (Cl. 274—13)

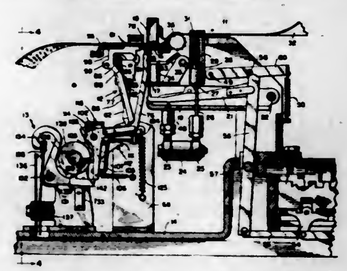


1. In a phonograph recorder comprising a support, a turntable removably mounted on said support, a cutter arm with its cutter head movably mounted on said support for traversing movement of the cutter head across a record held by said turntable, of mechanism for leading the cutter arm in its groove-cutting movement across said record, comprising reduction gearing mounted on said support and terminating at its low power end in a friction wheel and at its high power end in a friction wheel, the said removable turntable having a part removably engageable for driving engagement with said low power end friction wheel, and a member connected to said cutter arm for rotatable movement therewith, the said member and the high power end friction wheel being engageable, one with the other, for frictional driving engagement from wheel to member over the record traversing range of said cutter head, the said member being disengageable from said high power end friction wheel when the cutter arm is manually moved beyond the traversing range of said cutter head to an inoperative position.

## 2,388,965
## TELEGRAPH TRANSMITTER

Maurus T. Goetz, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application February 7, 1944, Serial No. 521,315
5 Claims. (Cl. 178—17)

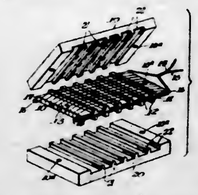


1. In a tape feed device, means for operating a tape feeding mechanism rectilinearly, comprising a fixed member, a reciprocable tape pin carrier member, confronting inclined surfaces upon said fixed member and said tape pin carrier member, a reciprocable wedging member interposed between said inclined surfaces and cooperatively related thereto, cam means for controlling the movements of said tape pin carrier member and said wedging member relatively to produce a rectilinear movement of the tap pins, and means for varying the extent of reciprocability of said tape pin carrier to define the rectilinear movement of the tape pins.

## 2,388,966
## ELECTRICAL STRAIN GAUGE

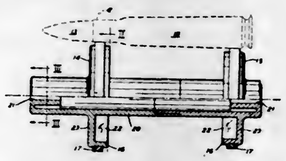
Verne S. Harrison, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware

Application May 13, 1944, Serial No. 535,493
10 Claims. (Cl. 201—63)



1. An electric strain gauge comprising a core of insulating material provided on both faces with ribs and recesses between the ribs, a strain sensitive resistance wire wound around the core and having its convolutions supported by the ribs on the core and deflectable in the recesses between said ribs, and plates of insulating material extending over the convolutions of the resistance wire on the faces of the core, respectively, and provided with ribs for deflecting the wire at the recesses between the ribs on the core, responsively to forces applied to press the core and plates together.

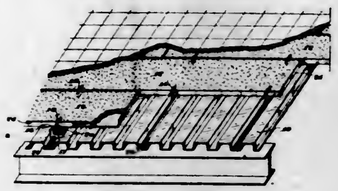
**2,388,967**
**AMMUNITION ROLLER**
**Chester A. Hathaway, Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California**
**Application April 17, 1943, Serial No. 483,464**
**6 Claims. (Cl. 193—37)**



1. An ammunition roller for guiding and feeding linked cartridges to machine guns or the like, comprising a two part molded plastic hub having axle bearings molded therein, spaced wheels molded integral with said hub part and of different diameters compensating for the differential between the cartridge neck and base diameters, said wheels having peripheral channels in the surface thereof, and resilient shock absorbing tread rims inserted in said channels and projecting above the surface of said wheels to provide the sole contacting surfaces engaging said cartridges.

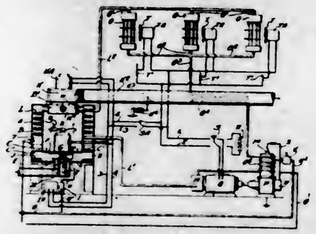
---

**2,388,968**
**BUILDING CONSTRUCTION**
**Arthur W. Hedgren, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 15, 1943, Serial No. 487,085**
**1 Claim. (Cl. 189—34)**



In a building construction, a metal floor deck made up of a plurality of contiguous corrugated units, each unit being provided with substantially rectangular corrugations and being provided upon one marginal edge with a downwardly turned lip, said lip cooperating with an upwardly turned lip on the next adjacent corrugated unit to connect together said units, said downwardly turned lip being disposed in one of the corrugations below the plane of the upper surface of the corrugated floor deck, a plurality of preformed insulating sheets of substantial thickness erected in contiguous relation on the upper surface of the floor deck, and a plurality of fastening devices for attaching the insulating sheets to the floor deck, each comprising a metal tie member provided with a hook upon each end thereof, the lower hook being hooked under the downwardly turned lip upon the marginal edge of the corrugated unit, and the upper hook being hooked over a rod engaging the upper surfaces of two contiguous insulating sheets substantially as described.

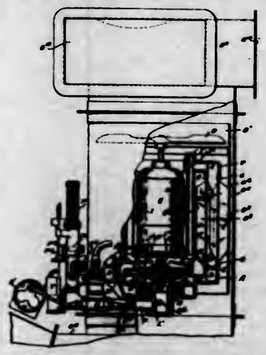
**2,388,969**
**AIRPLANE HEATING SYSTEM**
**Frederic O. Hess, Germantown, and Richard E. B. Wakefield, Aldan, Pa., assignors to Selas Corporation of America, a corporation of Pennsylvania**
**Application February 14, 1941, Serial No. 378,916**
**5 Claims. (Cl. 158—28)**



1. A heater including structure providing a combustion space and an inlet space and a dividing wall therebetween having a number of openings therein, means including a blower having a rotatable fan therein and a liquid fuel line terminating in the vicinity of the fan for discharging a combustible mixture of atomized fuel and air into the inlet space which is subdivided into a plurality of streams at the openings for combustion in the combustion space, and a body of porous material in the inlet space in the path of flow of the combustible mixture and another body of porous material about a portion of the fuel line in the vicinity of the fan, said bodies being provided to absorb liquid fuel when the heater is relatively cool, as at starting, for example, and from which fuel is expelled and mixes with the combustible mixture during normal operation of the heater.

---

**2,388,970**
**AIRPLANE HEATING MEANS**
**Frederic O. Hess, Germantown, Pa., and Carl P. Mann, Riverton, N. J., assignors to Selas Corporation of America, a corporation of Pennsylvania**
**Application July 11, 1942, Serial No. 450,577**
**16 Claims. (Cl. 126—110)**



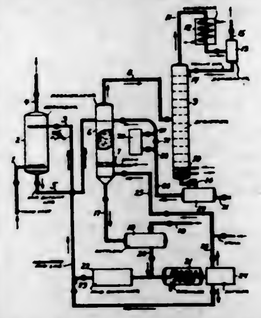
1. An airplane heater comprising a member formed with an annular burner chamber and with an exhaust fan chamber coaxial with and surrounded by said burner chamber, means forming



a heating chamber coaxial with said burner chamber and receiving combustion air and fuel therefrom, a second member longitudinally displaced from the first mentioned member and formed with a chamber receiving products of combustion from said heating chamber, and conduit means for conducting products of combustion from the second member to said exhaust fan chamber.

---

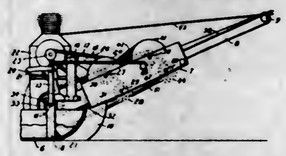
**2,388,971**
**RECOVERY AND REGENERATION OF NORMAL BUTENES FROM A SULPHURIC ACID SOLUTION THEREOF**
**Henry J. Hibshman, Plainfield, and William T. Knox, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**Application January 1, 1942, Serial No. 425,376**
**5 Claims. (Cl. 260—677)**



1. Method of recovery and regeneration of normal butenes, which comprises contacting a mixture of hydrocarbons containing normal butenes with sulphuric acid of about 83% concentration, contacting, in a steam distilling zone, the sulphuric acid solution of normal butenes thereby formed, with steam in quantity sufficient substantially to dilute the acid and having a heating effect sufficient to produce a distillate containing normal butenes, alcohol, polymers and water, fractionating the distillate to separate normal butenes as vapor from alcohol, polymers and water, and recycling alcohol, polymers and water to the sulphuric acid solution of normal butenes.

---

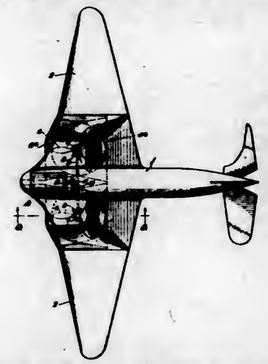
**2,388,972**
**MIXING DEVICE**
**Alfred Hirschi, Milwaukee, Wis.**
**Application July 19, 1945, Serial No. 605,921**
**3 Claims. (Cl. 259—178)**



1. A device for mixing mortar in a fixed flat bottomed trough comprising a frame, a wheel mounted on said frame for supporting said frame at a constant height above the bottom of the trough, a bracket hingedly mounted on said frame, a shaft mounted on said bracket and having its axis parallel to the axis of said wheel when said bracket is swung out from said frame and having its axis approximately perpendicular to the axis of said wheel when said bracket is swung back against said frame, mixing means on said shaft, and a motor connected with said shaft for driving the same.

---

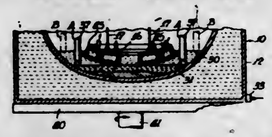
**2,388,973**
**AIRPLANE**
**Harry A. Hofgren, Chicago, Ill.**
**Application October 18, 1941, Serial No. 415,595**
**3 Claims. (Cl. 244—15)**



1. In an airplane, a fuselage with wings extending outwardly at both sides and structure forming a pair of passages extending fore-and-aft at opposite sides of the fuselage respectively and in symmetrical relation thereto and inclined downwardly from fore to aft, an intermediate portion of each passage having a substantially circular cross-section at an approximately horizontal plane, the top wall of said passage over the rear half of said circular area being dome-shaped, curving downwardly to the plane of said circular cross-section, and the bottom wall of the passage directly under the forward half of said area being of inverted dome formation, curving downwardly and rearwardly from said plane of circular cross-section, and a propeller mounted in each passage for rotation in said plane and operable to drive the airplane.

---

**2,388,974**
**METHOD FOR CASTING METAL**
**Robert K. Hopkins, New York, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware**
**Application May 20, 1944, Serial No. 536,571**
**10 Claims. (Cl. 22—200)**

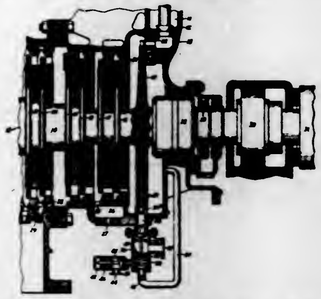


1. A process of casting a vessel with an end wall, which comprises the steps of depositing molten metal in an outer mold having side and bottom walls, and progressively assembling an inner core in and correlatively to said outer mold from the center of said outer mold radially outwardly and upwardly as the level of the deposited metal rises,

to form between the mold and the core a mold space defining the walls of the vessel to be cast, and to extend progressively said mold space radially ahead and above the rising level of the deposited metal.

---

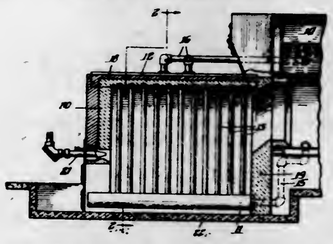
2,388,975
**MULTISTAGE HIGH PRESSURE ELASTIC FLUID TURBINE**
James F. Jefferson, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application November 10, 1943, Serial No. 509,646
11 Claims. (Cl. 253—76)



2. Multi-stage high pressure elastic fluid turbine comprising a casing with an inlet and an exhaust end for elastic fluid and a peripheral outlet near the inlet for discharging liquid slugs conducted through the inlet together with elastic fluid conducted thereto, a valve controlling the flow through the peripheral outlet, means normally biasing the valve towards closing position, and means responsive to differential pressure between the peripheral outlet and a point near the diametrical center of the turbine for actuating the valve.

---

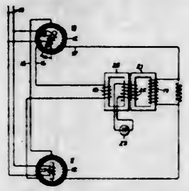
2,388,976
**FURNACE**
Adolph T. Johanson, Glenview, Ill., assignor of one-half to Milton E. Page, Jr., Chicago, Ill.
Application May 25, 1944, Serial No. 537,262
1 Claim. (Cl. 122—189)



In a cooperating grateless Scotch-marine steam-boiler and a front furnace-extension therefor, the following novel combination of features, to increase the capacity of said boiler and extension and at the same time avoid incomplete combustion, (*a*) of a pair of mud-drums forming part of said furnace-extension and at a lower level than the bottom of, and disposed longitudinally of, said boiler, (*b*) an elevated water-drum arranged lengthwise of said extension and at an elevation as high as permitted by the flue-doors of said boiler, (*c*) arched spaced-apart water-tubes joining the interiors of said mud-drums to the interior of said water-drum and defining a coal-burning combustion-chamber permitting opening of said flue-doors, (*d*) conduits joining the interiors of said mud-drums to the lower portion of the water space in the boiler, (*e*) conduits connecting the interior of said water-drum to the opposite sides of the interior of said boiler below the water-level therein, (*f*) a fire-brick arch covering and supported by said water-tubes, (*g*) insulation covering said fire-brick arch, (*h*) a fire-brick wall between said furnace-extension and said steam-boiler and having a passage therethrough connecting said combustion-chamber with the chamber of said steam-boiler through which the heated products of combustion flow, and (*i*) a front-wall for said furnace-extension, said combustion-chamber of said extension being of substantially larger volume than that of said chamber of the steam-boiler.

---

2,388,977
**SYSTEM FOR THE TRANSMISSION OF ANGULAR MOTION**
Frithiof V. Johnson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 3, 1938, Serial No. 183,043
4 Claims. (Cl. 177—337)

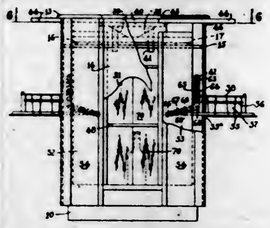


1. A system for the transmission of angular motion comprising receiver and transmitter devices, said devices each having relatively rotatable windings, means for energizing one winding of each device in parallel from a single phase source, a three-wire transmitting circuit connecting the other windings in a manner analogous to a three-phase connection, a transformer device having two primary windings said primary windings being inductively independent with respect to each other but inductively linked with the secondary winding and a secondary winding, connections for energizing said two primary windings by currents proportional respectively to the currents in two of the wires of said three-wire transmitting circuit, means for causing the current in one of said primary windings to be out of time phase with the current in the other primary winding by 60 degrees and a signal energized from the secondary winding of said transformer.

---

2,388,978
**CABINET OR THE LIKE**
Ludwig Kaiser, New Haven, Conn.
Application September 19, 1944, Serial No. 554,810
12 Claims. (Cl. 312—140.2)

2. A cabinet or like structure having a top section, a front section, and end wall sections, said top section having an opening therein, oppositely movable panel members closing said opening, a leaf hinged to each of said end sections, said front section having an opening therein, oppositely movable doors on said front section closing said opening, means connecting said panels to

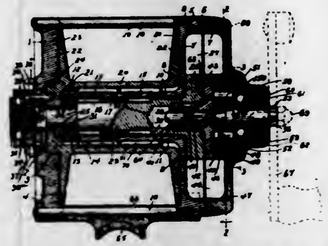


said doors to effect movement of the latter when the former are moved, and means connecting said doors to the leaf members to swing the latter about their hinges when the doors are moved.

---



2,388,979
**FISHING REEL**
James T. King, Burbank, Calif.
Application January 19, 1945, Serial No. 573,526
13 Claims. (Cl. 242—84.5)

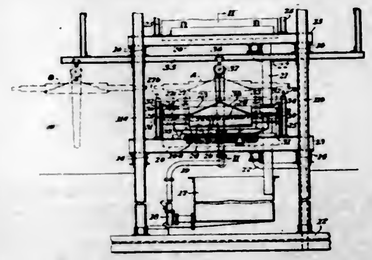


1. In a hydraulically operated fishing reel: a support comprising a side member, a combined impeller and gear case constituting a second side member, cross connections and spacers joining said side members in spaced relation; a spool mounted between said side members and having a hollow hub; a driven impeller in said case and having a shaft having a bore and extending through said spool and the first mentioned side members; an operative connection between said shaft and said spool; a driving impeller in said case and having a tubular shaft projected into said bore; a drive shaft journalled in said case and in said tubular shaft; a drive pinion on said drive shaft within said case; other pinions carried by said case and meshing with said drive pinion; a ring gear carried by said second impeller within said case and meshing with said other pinions; an antifriction bearing located between said drive shaft and said case; and another antifriction bearing between the shafts of both impellers.

---

2,388,980
**ROLL-CHANGING APPARATUS FOR ELECTROLYTIC COATING LINES**
Clarence J. Klein, Hollidays Cove, W. Va., assignor to National Steel Corporation, a corporation of Delaware
Application February 10, 1944, Serial No. 521,796
5 Claims. (Cl. 212—134)

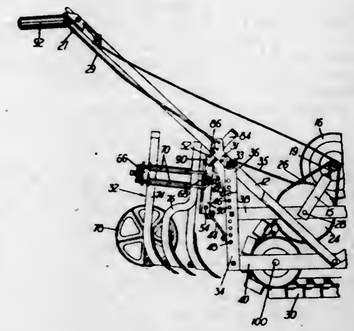
1. Lifting apparatus for use in an electrolytic coating line or the like wherein electrolyte pans are disposed in vertically spaced tiers and contact rolls are disposed between adjacent pans and journaled in spaced housings, the parts in the upper tier precluding the use of a mill crane for handling the rolls of the lower tier, said appara-



tus comprising a hoist and a rail on which it travels, said rail being below the pans and rolls of the upper tier and extending above a set of rolls in the lower tier and laterally thereof to a point relatively free from overhead obstructions.

---

2,388,981
**IMPLEMENT HITCH**
Baldwin C. Kuntz, Juneau, Wis., assignor, by mesne assignments, to Automatic Products Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 24, 1942, Serial No. 428,031
3 Claims. (Cl. 97—48)



1. In a tractor including a main frame and handles extending therefrom for guiding the tractor, an implement hitch comprising a cultivator rigging including a plurality of members extending substantially vertically and a shaft pivotally supported therebetween, means connecting said shaft with said frame for relative vertical movement between said frame and said rigging, a detent pivotally mounted on said frame for engaging and holding said rigging above the operating position thereof, a spring biasing said detent into position for engagement with said rigging shaft, and means for releasing said rigging from said detent against the action of said spring whereby said rigging comes to the operating position thereof.

**2,388,982**
**TENSIONING DEVICE**
**George L. Leithiser, York, Pa., assignor to General Electric Company, a corporation of New York**
**Application August 21, 1944, Serial No. 550,365**
**3 Claims. (Cl. 242—156)**



1. A tensioning device for a filament comprising a bobbin having a wall defining a spool surface upon which the filament is wound and from which it is drawn, axle means rotatably supporting said bobbin, members within said bobbin housed by said wall constructed and arranged to be forced into frictional engagement, one member being nonrotatably attached to said wall but movable longitudinally relative to it and another being attached in a similar way to said axle means, means forcing said members into frictional engagement so as to resist rotation of said bobbin with a predetermined force, and means operated responsively to a predetermined high tension in said filament that is drawn from said bobbin for controlling the operation of said last-named means so as to release said members and thereby permit said bobbin to rotate, and for causing the reengagement of said members to stop the bobbin when said tension falls below said predetermined value.

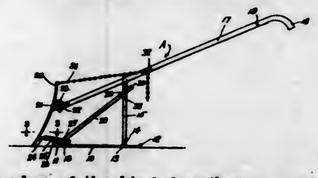
**2,388,983**
**PROCEDURE OF EXTRACTING ALUMINUM HYDRATE FROM CLAY**
**Sanford C. Lyons, Bennington, Vt., assignor to Georgia Kaolin Company, Elizabeth, N. J., a corporation of Georgia**
**No Drawing. Application June 3, 1944, Serial No. 538,705**
**5 Claims. (Cl. 23—119)**

1. The method of producing aluminum hydrate from clay, which comprises mixing clay intimately with water and ammonium sulphate to form a plastic mass, forming from the resulting mixture bodies of small and substantially uniform cross-sectional area, drying such bodies, roasting the dried bodies at a temperature and for a time sufficient to volatilize and dissociate a portion of the ammonium sulphate and to cause reaction between the clay and ammonium sulphate with the formation of the double sulphate of aluminum and ammonium, at the same time causing dissociated ammonia to combine with carbon dioxide from the products of combustion of the fuel burned to furnish roasting heat, passing the gases and fumes from the roasting furnace through water and thereby forming a solution of ammonium carbonate, leaching the solid residue of the roasted mass with water to form a solution of ammonium alum, adding sodium dithionite to said solution, crystallizing the ammonium alum content of the solution and separating it from the mother liquor, redissolving the alum crystals, combining the resulting solution with the ammonium carbonate solution obtained in the scrubbing step, thereby forming a precipitate of aluminum hydrate and a solution of ammonium sulphate, and separating the precipitate from the solution.

**2,388,984**
**POLYISOBUTYLENE-WAX COMPOSITIONS**
**Gerry P. Mack, Jackson Heights, Long Island, N. Y., assignor to Advance Solvents & Chemical Corporation, New York, N. Y., a corporation of New York**
**No Drawing. Application August 9, 1941, Serial No. 406,185**
**4 Claims. (Cl. 260—4)**

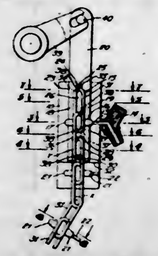
1. Compositions suitable for producing self-sustaining films which are non-tacky at ordinary temperatures, but are capable of heat-sealing at elevated temperatures consisting of between 35 and 40 parts by weight of a polyisobutylene having an average molecular weight above 30000, 25 to 35 parts by weight of a cyclicized rubber, and between 35 parts and 40 parts by weight of a wax including at least 18 parts by weight of an amorphous micro-crystalline, highly ductile petroleum wax having a melting point of 140.8° to 160° F., any remainder being paraffin wax.

**2,388,985**
**ADJUSTABLE TWO-WAY HAND SNOWPLOW**
**John S. Martin, Bellingham, Wash.**
**Application May 25, 1944, Serial No. 537,328**
**3 Claims. (Cl. 37—53)**



2. A plow of the kind described, comprising a scraper blade, a runner rearwardly of the blade, handle bars pivotally coupled centrally to the blade, a linking strap adjustably connecting the blade with the runner, a standard on the runner joined with the handle bars, adjusting chains connecting the ends of the blade with the handle bars, and an adjustable forwardly inclined brace connecting the standard and runner and disposed forwardly of said standard.

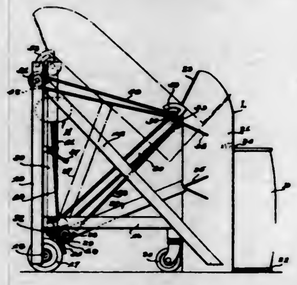
**2,388,986**
**APPARATUS FOR PRODUCING INTERCOUPLED RELATIVELY MOVABLE CASTINGS**
**Louis H. Morin, Bronx, N. Y., assignor of one-half to Davis Marinsky, Bronx, N. Y.**
**Application June 16, 1943, Serial No. 491,036**
**12 Claims. (Cl. 18—42)**



10. An apparatus for forming intercoupled cast members, comprising a pair of dies movable toward and from each other, adjacent abutting surfaces of the dies defining the parting line thereof and having cavities partially forming the cavities of two independent castings to be formed, another die part arranged and movable on the parting line of said dies and partitioning and partially forming said cavities, means comprising a gate passage opening to both cavities to unite the pair of independent castings formed in said cavities, adjacent end portions of said cavities being spaced apart and in crossed relationship to each other, said die part having rods arranged in spaced relationship to each other on the parting line of the dies, means on said dies filling the space between said rods except where the cavities cross from one die surface to the opposed die surface, and said dies and die part having means forming a recess to receive and support part of a pre-formed casting in crossed relation to one of the cavities of said dies.



**2,388,987**
**LOAD HANDLING MECHANISM**
**Clyde W. Morrison, Toledo, Ohio**
**Application April 6, 1944, Serial No. 529,771**
**13 Claims. (Cl. 214—1.1)**

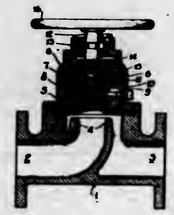


1. A load handling mechanism comprising a frame including an upright support, a load carrier, a mounting for said carrier enabling same to rock toward said support from a substantially vertical position adjacent the floor to a downwardly inclined position with the rearward end disposed above the forward end, said mounting including main lever means connected to one end portion of said carrier and secondary lever means connected to an intermediate portion of said carrier and having ambulatory engagement with said main lever after the latter has completed its rocking movement, thereby to obtain such downwardly inclined positioning of said carrier, and means for effecting such carrier movement.

**2,388,988**
**DIAPHRAGM VALVE**
**Charles Mueser, Verona, N. J., assignor to T. Shriver & Company, Inc., Harrison, N. J., a corporation of New Jersey**
**Application April 7, 1944, Serial No. 529,906**
**13 Claims. (Cl. 251—24)**

1. In a valve, the combination with a flow passage including a seat, and a diaphragm, having a central portion surrounded by an annular portion, adapted to be flexed into and out of engagement with the seat to close and open the flow passage, the central portion of said diaphragm having a greater travel to said seat than the annular portion, of a backing member engaging the central portion only of the diaphragm on the side remote from the seat, a manually operable stem rotatable to advance said backing member a distance commensurate with the travel of the central portion of the diaphragm in moving from open to closed position, an annular member surrounding the backing member and engaging the annular portion of the diaphragm surrounding the said central portion thereof, said backing member and said annular member each being movable with respect to the other, and means responsive to rotation of said stem to advance said annular member a distance commensurate with the lesser travel of said annular portion of the diaphragm.

**2,388,989**
**DIAPHRAGM VALVE**
**Charles Mueser, Verona, N. J., assignor to T. Shriver & Company, Inc., Harrison, N. J., a corporation of New Jersey**
**Application April 8, 1944, Serial No. 530,144**
**10 Claims. (Cl. 251—24)**



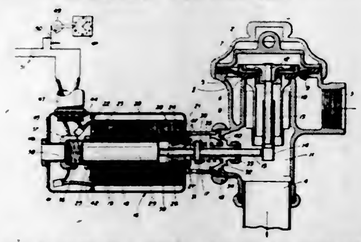
1. In a valve, the combination with a flow passage including a seat, and a diaphragm adapted to be flexed into and out of engagement with the seat to open and close the flow passage and of a diameter, relative to the diameter of the seat, such that an annular portion of the diaphragm outside the bounds of the seat is free to flex, of a main backing member engaging the central portion only of the diaphragm on the side remote from the seat, an auxiliary backing member adapted to engage the said annular portion of the diaphragm outside the bounds of the seat, said main backing member and said auxiliary backing member each being movable with respect to the other, a rotatable stem, and differential screw means actuated thereby to move the main backing member a distance commensurate with the travel of the central portion of the diaphragm in moving from open to closed position and said auxiliary backing member a distance commensurate with the lesser travel of the said annular portion of the diaphragm, said screw means comprising oppositely threaded sections of unequal pitch.

**2,388,990**

## ELECTRICALLY OPERATED FLUSH VALVE

**Ralph M. Nelson, River Forest, and John L. Bellamy, Brookfield, Ill., assignors to Sloan Valve Company, Chicago, Ill., a corporation of Illinois**

**Application July 25, 1942, Serial No. 452,372**
**10 Claims. (Cl. 175—341)**



1. In a solenoid assembly for automatically operating a flush valve, said solenoid including a tube having an electrical coil wound thereon and an operating plunger movable in said tube, a casing enclosing said coil, a second casing having an open end and arranged axially upon one end of said coil casing, means engaging said tube for clamping said coil, said second casing and said coil casing together on said tube, said second casing having facilities through the open end thereof for the attachment of electrical wiring means to said coil, a cover enclosing the open end of said second casing, a hollow screw axially secured to said tube for clamping the cover to said second casing, said hollow screw enabling external manual access to be had to said operating plunger to manually actuate the same, a hollow socket member secured to the opposite end of said coil casing, coupling means on said socket member providing the sole means for supporting said solenoid assembly, and connecting means extending outwardly through said hollow socket member from said operating plunger and actuated by said operating plunger upon the electrical energization of said coil.

---

**2,388,991**

## PRODUCTION OF CASEIN

**William F. Oatman, Geneva, Ill., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application February 18, 1942, Serial No. 431,340**
**8 Claims. (Cl. 260—120)**

1. The process of obtaining casein in the form of a firm curd from dried skim milk powder which consists in mixing dried skim milk powder with fresh skim milk, precipitating casein by adding to the mixture a casein-precipitating agent selected from the group consisting of acids, sour whey, and rennet, and recovering from the mixture precipitated casein in the form of a firm curd.

---

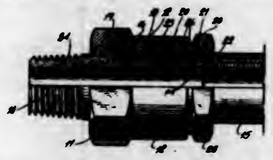
**2,388,992**

## HOSE COUPLING

**Karl Pape, Dover, and Alexander N. Troshkin, Montclair, N. J., assignors to Resistoflex Corporation, Belleville, N. J., a corporation of New York**

**Application March 31, 1944, Serial No. 528,990**
**1 Claim. (Cl. 285—86)**

A reusable quick-attachable coupling for attachment to a compressible flexible hose end, comprising a rigid cylindrical collar externally threaded throughout the major portion of its surface and provided at one end with a wrench-receiving portion, said collar having a bore a portion of which is smooth and cylindrical and adapted to closely surround said hose end when in an unstressed condition and another portion of which is provided with screw threads adapted to grip the hose and facilitate application of the collar to the hose end, a coupling part having a wrench-receiving portion and an internally threaded cylindrical sleeve adapted to receive the externally threaded portion of said collar and having a shank centrally located within said internally threaded sleeve and projecting beyond the end of the latter, said shank being tapered at its outer end to a diameter approximating the inner diameter of the hose for easy insertion therein and having a diameter at its inner end



intermediate the inside and outside diameters of the hose and adapted to expand the hose outwardly tightly against the unthreaded inside portion of said collar when the hose is drawn over said shank, the tapered portion of said shank having a smooth surface to facilitate drawing of the hose end thereover, said threaded sleeve and said shank being so formed that they define between them an annular chamber having an outwardly flared end wall, whereby by screwing the collar on to the hose with the end of the hose extending beyond the inner end of said collar and by screwing said internally threaded sleeve of the coupling part and said externally threaded collar together the hose will be drawn over said shank, turned outwardly under the inner end of said collar by said flared end wall of said annular chamber and compressed between said end wall and the inner end of said collar.

---

**2,388,993**

## MEN'S NECKWEAR

**Howard Pfau, Cincinnati, Ohio**

**Application November 29, 1943, Serial No. 512,210**
**3 Claims. (Cl. 2—150)**



1. A scarf of the nature disclosed, comprising: a band having both of its opposite face sides serviceable for alternate wear exposure, at one end folded into a knot with uniform opposite face sides with the end edge of the band terminating longitudinally of and secured to a side of the knot adapting the scarf for reversible wear, and a neck band traversing a transverse fold forming the head of the knot.



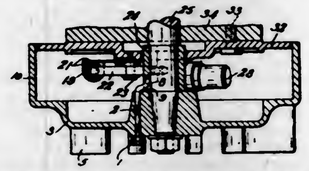
---

**2,388,994**

## CENTRIFUGAL SPARK CONTROL MECHANISM FOR FLYWHEEL MAGNETOS

**Russell E. Phelon, West Springfield, Mass., assignor to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts**

**Application August 11, 1944, Serial No. 549,091**
**3 Claims. (Cl. 64—25)**



1. The combination in a flywheel magneto with the flywheel and its crankshaft, of a breaker cam mounted to turn on said shaft, a small shaft rotatably mounted in the flywheel in parallel and closely adjacent relation with said crankshaft, said second-named shaft having its inner end extending into the space within the flywheel and engaged with said cam to turn the latter on the crankshaft when the second-named shaft is turned and having its outer end extending outside the flywheel, a governor weight mounted outside the flywheel and connected to turn said second-named shaft back and forth when the weight swings outwardly and inwardly by centrifugal force, and yieldable means acting on said weight in opposition to centrifugal force.

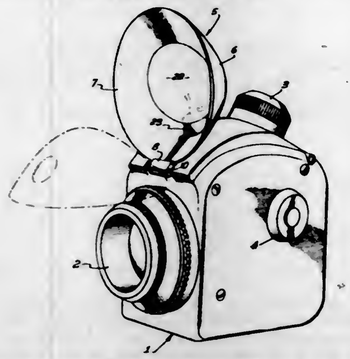
---

**2,388,995**

## CAMERA CONSTRUCTION

**Gordon B. Pollock, South Laguna, Calif.**

**Application April 18, 1944, Serial No. 531,534**
**8 Claims. (Cl. 95—11)**



1. In a photographic camera assembly adapted for "flash" photography, the combination which comprises: a camera provided with a lens and a body portion, said body portion being provided with flash bulb retaining means adapted to position a flash bulb adjacent to but rearwardly of said lens; a concave reflector assembly provided with opening means adapted to receive a flash bulb base and having an edge portion pivotally mounted on said body portion at a position adjacent said lens and rotatable through an angle in the neighborhood of 180° between a first position removed from said flash bulb position and covering said lens and a second position such that the concavity is faced forwardly in the direction of the field of view of said lens, and is disposed generally rearwardly of said flash bulb position.

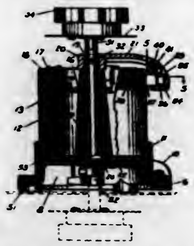
---

**2,388,996**

## VOLTAGE REGULATOR

**Ralph H. Preston, Roseland, N. J., assignor to American Transformer Company, Newark, N. J.**

**Application October 4, 1944, Serial No. 557,175**
**11 Claims. (Cl. 171—119)**



1. A voltage regulator including a recessed base of suitable insulating material and having an integral centrally located outwardly extending column with a groove therein near its normally free end, a circular core of suitable magnetic material carrying a toroidal winding of closely arranged conductors, the outer turns of which have at least a circularly bared portion to form a brush contact surface, the core and winding being seated at one end on the base around said column, clamping means engaging the opposite end of the winding and core, a retaining member carried by the groove in said column for holding said clamping means in clamping position, a cylindrical metallic sleeve or auxiliary shaft passing through said column, a brush arm securely fastened mechanically and electrically to the cylindrical sleeve at the free end of the column and extending radially from the column and downwardly at its free end over the winding, a brush resiliently carried by the free end of the arm in engagement with said brush contact surface on the winding, an operating shaft passing through said cylindrical sleeve and removably fastened thereto adjacent the free end of the column, a stop within the recess of the base, stop means adjustably carried on the sleeve for engaging said base stop for both directions of rotation of the shaft, and terminals carried by the base for making connections to the winding and sleeve.

---

**2,388,997**

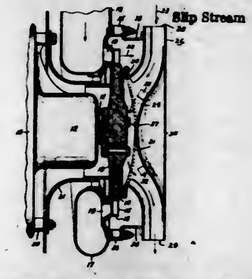
## COOLING ARRANGEMENT FOR GAS TURBINES

**Samuel R. Puffer, Lynnfield Center, Mass., assignor to General Electric Company, a corporation of New York**

**Application June 28, 1939, Serial No. 281,576**
**2 Claims. (Cl. 60—41)**

1. Gas turbine arrangement for aircraft comprising a bucket wheel for directly discharging, into the atmosphere and a device located on the discharge side of the wheel for cooling the cen-

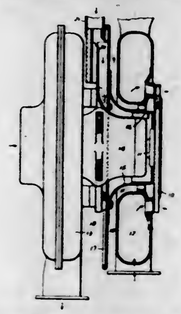
tral portion of the wheel, said device comprising a cap adjacent the wheel and having a rim forming a close clearance with the wheel, said cap having an opening, a box-shaped structure fastened to the cap around said opening and form-




ing an inlet conduit for receiving cooling air to be conducted to the space formed between the wheel and the cap and a discharge conduit for discharging cooling air from said space directly into the atmosphere with the discharge located substantially diametrically opposite the inlet.

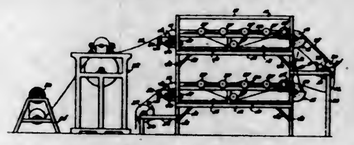
---

**2,388,998**
**GAS TURBINE COOLING ARRANGEMENT**
**Samuel R. Puffer, Lynnfield Center, Mass., and Rollin H. Norris, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application September 14, 1939, Serial No. 294,908**
**4 Claims. (Cl. 60—41)**



4. The combination of a shaft, a bearing supporting the shaft, a gas turbine having a bucket wheel secured to the shaft on one side of the bearing and a nozzle box for conducting gases to the wheel, a machine having an element supported on the shaft on the other side of the bearing, and means to reduce radiation of heat from the nozzle box towards the bearing and the machine, said means including a partition located between the machine and the nozzle box and defining a first channel adjacent the machine and a second channel adjacent the nozzle box, the inner edge of the partition forming a close clearance with the wheel, and a channel structure located substantially within the first channel and having an extension adjacent the bearing and projecting into the second channel, said channel structure forming two passages for conducting separate streams of air towards opposite sides of the bearing and another passage for directing air through the extension towards the wheel.

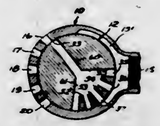
**2,388,999**
**MACHINE FOR APPLYING MULTICOLORED FLOCK**
**John W. Riggenbach, Barrington, R. I.**
**Application August 27, 1943, Serial No. 500,298**
**5 Claims. (Cl. 91—8)**



1. A machine for applying multi-colored flock comprising, a frame, superposed sectional rollers at the front and rear ends of the frame, an upper set of endless carrier blankets trained over respective sections of the upper rollers, a lower set of endless carrier blankets trained over the sections of the lower rollers, means for driving the rollers to actuate the blankets, superposed pans on the frame respectively receiving the lower reaches of the upper and lower sets of blankets, compartments in each pan equal in number to the number of respective blankets adapted to supply distinctively colored flock to the blankets traveling through the compartments, a plurality of beater bars of angular cross section on the frame below and in contact with the upper reaches of the upper and lower sets of blankets for vibrating the blankets to beat flock into a web of cloth supported by the blankets and impregnated with adhesive motifs or designs, means for rotating the beater bars, a sectional roller mounted below and in rear of the upper sectional roller at the rear end of the frame, a pan having compartments receiving the sections of the last named roller, said web of cloth being trained over the last named roller and being formed below the roller with a slack loop and then being trained onto the blankets of the lower set of blankets at the rear end of the machine, means for rotating the last named roller, and a scraper on the last named roller engaging the roller to move excess flock from the web of cloth to be collected by the compartments of the last named pan.

---

**2,389,000**
**VALVE CONSTRUCTION**
**Arthur Roberts, Cleveland Heights, Ohio, assignor to The Colonnade Company, Cleveland, Ohio, a corporation of Ohio**
**Application October 21, 1943, Serial No. 507,187**
**6 Claims. (Cl. 251—107)**



1. In apparatus of the nature described, in combination, a casing, a distributor member rotatably mounted in said casing, a primary port and three or more secondary ports extending through said casing, said ports being positioned in a plane extending horizontally through said casing, and a passageway extending through said distributor member having an enlarged mouth, said passageway and its mouth being adapted to be moved into and out of registration with said primary and secondary ports, the axis of rotation of said distributor member being at right



angles to the plane in which said ports are positioned, said passageway and its mouth being capable of connecting said primary port either with any individual secondary port or with any number of the secondary ports in series beginning with either of the outermost outlet ports.

---

**2,389,001**
**WATER SKI**
**Clarence L. Schatz, Merchantville, N. J.**
**Application June 21, 1944, Serial No. 541,395**
**2 Claims. (Cl. 9—21)**



1. In a device of the character described, a foot supporting plate, a pair of aligned floats, one of said floats being secured to one end of the plate and the other float being secured to the opposite end thereof, longitudinally disposed centrally positioned keels on said floats, a plurality of rows of pivot pins on the hull of said floats on opposite sides of said keel, fins pivotally mounted on said pins, and stop means limiting the pivotal movement of said fins, in a direction toward the bows of said floats, to a position at right angles to said floats.

---

**2,389,002**
**AUTOMOBILE WINDOW VISOR**
**George W. Schatzman and Arthur P. Fergueson, Detroit, Mich., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan**
**Application December 16, 1944, Serial No. 568,442**
**8 Claims. (Cl. 296—95)**

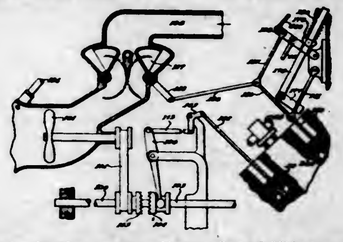


1. A visor assembly for a window of an automobile in which the window pane is received in a sash of rubber-like material, comprising a visor body having spaced apart openings therethrough adjacent to and along its peripheral edge, and angular shaped clips of comparatively thin spring sheet metal with one leg thereof engageable with the inner side of the visor body and the other leg thereof insertable through said openings and between the window sash and the pane and terminating in hook ends for engagement around the edge of the pane.

---

**2,389,003**
**SPARK, SUPERCHARGER, AND THROTTLE CONTROL**
**Carl F. Schern, Detroit, Mich., assignor to George M. Holley and Earl Holley**
**Application November 16, 1942, Serial No. 465,803**
**10 Claims. (Cl. 170—135.6)**

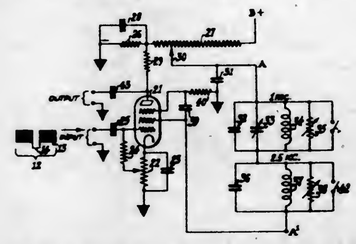
1. In combination with an aircraft engine having a variable pitch propeller adapted to control the engine at a selected constant speed, manually operated control means for selecting said constant speed of the engine, an engine driven supercharger, a change-speed transmission therefor including a clutch, automatic clutch control means for said transmission comprising a snap action valve shifting mechanism, a servomotor valve connected thereto, a servomotor controlled by said valve, means controlled by the speed of the engine and by the pressure created by said supercharger and by the atmospheric pressure



to operate the snap action valve shifting mechanism to cause the servomotor to operate the clutch to change the relative speed of the supercharger at the desired combination of engine speed, manifold air pressure, and altitude.

---

**2,389,004**
**KEYED MULTIFREQUENCY NEGATIVE RESISTANCE APPARATUS**
**Alfred C. Schroeder, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 26, 1942, Serial No. 448,563**
**8 Claims. (Cl. 250—17)**



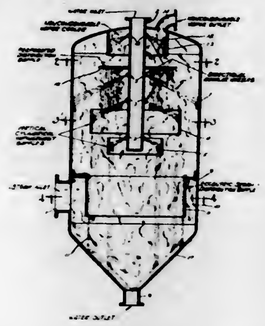
1. Multi-frequency negative resistance apparatus including a multi-resonant circuit, a negative resistance device, means connecting said device to said circuit, connections for a source of keying signals comprising potentials of predetermined polarity and period, and means for applying said keying signals to said device to selectively derive oscillations at all of the resonant frequencies of said circuit.

---

**2,389,005**
**CONDENSER**
**Joseph F. Sebald, Bloomfield, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware**
**Application July 14, 1944, Serial No. 544,890**
**5 Claims. (Cl. 261—115)**

1. In a direct contact condenser, a shell having a condensing medium inlet and an outlet for mixed condensate and condensing liquid, said shell having a vapor inlet disposed therein remote to the condensing liquid inlet whereby counter-current flow of vapor and condensing liquid will be set up within the shell, a plurality of nozzles in said shell for directing condensing liquid into the shell and across the flow path of

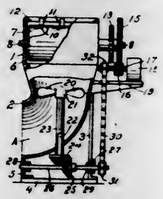
the vapor, surface providing means in said shell, said surface providing means forming abutments against which the condensing liquid sprayed from certain of said nozzles strikes whereby the directional flow of the condensing liquid engaging



the surface forming means is changed from a cross flow to a directional flow substantially parallel to the walls of the shell, and an eccentric baffle in said shell in the path of the incoming vapor to provide equal distribution of vapor in the shell.

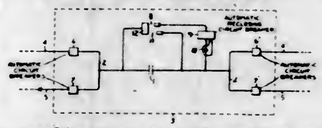
---

**2,389,006**
**FEATHER PICKER FOR FOWLS**
**Walter R. Smith, Kansas City, Kans.**
**Application June 10, 1944, Serial No. 539,680**
**2 Claims. (Cl. 17—11.1)**



1. In a feather picker for fowls, a casing having a passage with an upright intake portion with an open end and merging into a laterally extending outlet portion with an open end, two parallel cylindrical horizontal plucking rollers rotatably mounted in said intake portion, side by side and with their peripheries contacting with each other throughout each revolution, grid rods extending transversely across said rollers with their middle portions depressed between and closely adjacent to said rollers between said intake end and said rollers and adapted to support the body of a fowl that is being plucked, means supporting the ends of said grid rods, means for revolving said rollers in opposite directions with their adjacent sides moving downwardly, a fan in said passage below said rollers, a shaft extending through said casing into said passage, means rotatably supporting said shaft, means by which said shaft revolves said fan, and means for rotating said shaft in a direction such that said fan will be revolved to force air downwardly from said rollers through said passage.

**2,389,007**
**PROTECTIVE SYSTEM**
**Harold E. Strang, Ardmore, Pa., and John W. Butler, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application December 26, 1942, Serial No. 470,198**
**9 Claims. (Cl. 175—294)**



1. In combination, an alternating current power line, a series capacitor connected therein, a pair of arc gaps with unequal voltage settings effectively connected in parallel across said capacitor, a normally closed circuit interrupter connected in series with the gap having the lower voltage setting, automatic circuit breakers in said line for isolating a fault therein a predetermined time after its occurrence, and means for opening said interrupter in a predetermined time after its serially connected gap breaks down which is longer than the timing of said automatic circuit breakers.

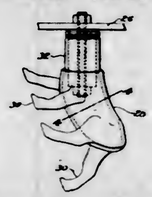
---

**2,389,008**
**MANUFACTURE OF ALTERNATING CURRENT RECTIFIERS OF THE SELENIUM TYPE**
**Leslie Ernest Thompson and Alexander Jenkins, London N. 1, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**No Drawing. Application January 8, 1943, Serial No. 471,737. In Great Britain January 21, 1942**
**1 Claim. (Cl. 175—366)**

An alternating current rectifier of the kind described comprising a base or support provided with a layer in the form of a selenium mixture containing selenium, selenium dioxide, a halogen salt approximately 0.04% of sulphur and approximately 0.02% of iron.

---

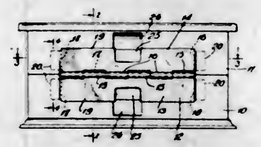
**2,389,009**
**APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES**
**Neil E. Tillotson, Watertown, Mass.**
**Application March 3, 1941, Serial No. 381,490**
**1 Claim. (Cl. 18—41)**



A dipping form for hollow non-inflatable, self-supporting, three-dimensional rubber articles of complex shape including angularly disposed protuberances, comprising a member of resilient material having a three-dimensional shape substantially similar to that of the article, said member being hollow throughout its extent and the interior open to the atmosphere and the walls of said member being of sufficient thickness to be self-sustaining, whereby the article formed thereon may be stripped by temporarily collapsing the walls of said member.



**2,389,010**
**HINGE**
**Herbert Traumüller, Brooklyn, N. Y.**
**Application January 27, 1944, Serial No. 519,955**
**7 Claims. (Cl. 16—159)**



6. A hinge for hingedly coupling two supports at adjacent abutting wall portions of the supports, said wall portions having slots opening through adjacent and inner and outer surfaces thereof, said hinge comprising substantially similar butts having attaching plates adapted for arrangement on inner and outer surfaces of the supports, means at adjacent edges of the attaching plates for hingedly coupling said butts in alinement with abutting surfaces of the supports, each attaching plate having preformed L-shaped mounting flanges, one part of each flange extending angularly to the attaching plate and adapted to be arranged in the slots in the wall of the respective support in connection with which the butt is mounted, said part being equal to the distance between inner and outer surfaces of the supports, the other part of each flange extending angularly to the end of the first named part and being disposed upon the inner surface of said wall, and means for keying the last named part to said wall of the support when the butt is mounted on the support in retaining the butt against displacement therefrom.

---

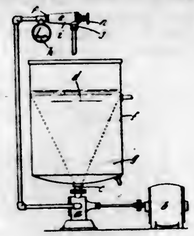
**2,389,011**
**EMULSION COATING COMPOSITIONS**
**Arthur Ronald Trist, London W. 1, England**
**No Drawing. Application July 4, 1942, Serial No. 449,817. In Great Britain August 19, 1941**
**7 Claims. (Cl. 106—243)**

1. A process of preparing a stable water in oil emulsion which comprises colloidally milling a petroleum solution of a linseed oil highly polymerized by heavy boiling at a temperature of about 600° F. to raise its acid content with an aqueous solution of a water soluble salt of a metal selected from the group consisting of aluminum, calcium, magnesium and zinc until the product of reaction between the polymerized linseed oil and the metal salt forms a highly elastic water and oil insoluble envelope for each of the colloidal water particles.

---

**2,389,012**
**MEANS FOR THE COLLOIDAL DISPERSION OF MATERIALS**
**Arthur Ronald Trist, London W. 1, England**
**Application December 30, 1942, Serial No. 470,704**
**In Great Britain February 6, 1942**
**4 Claims. (Cl. 252—359)**

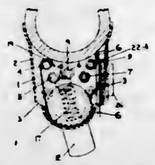
1. Improved means for the colloidal dispersion of materials comprising a heat exchanger, a high speed pump receiving liquid from said exchanger and delivering said liquid to a homogenising valve consisting of a taper plug having a spiral thread, a threaded taper body co-operating with said threaded plug, means for rotating said plug to vary the width of the helical passage of constant



breadth between the confines of the thread and means for conveying the discharge from said passage to said exchanger.

---

**2,389,013**
**HANDLE-BAR SWITCH**
**Frederick P. Upton, New Rochelle, N. Y., assignor to Geneto Corporation, Mount Vernon, N. Y.**
**Application January 20, 1944, Serial No. 518,936**
**5 Claims. (Cl. 200—157)**



1. A handle-bar switch including a casing adapted to fit on and be fastened to a motorcycle handle-bar, an insulator mounted within the casing and supporting a switch member having a handle projecting through the casing, a spring-pressed plunger carried by said switch member, a plurality of contact pins carried by the insulator and extending rearwardly therefrom in spaced relationship, the center pin always being in engagement with the end of said plunger which will complete a circuit with either one of the pins on either side of said center pin, a pair of pins spaced one on each side of the three pins just mentioned, means for electrically connecting the last two-mentioned pins, said means including a push-button carried by the casing and adapted to move a conductor into contact with one of said two pins, the said conductor being permanently connected to the other of said two pins.

---

**2,389,014**
**TEMPERATURE REGULATING DEVICE**
**Victor Weber, Greensburg, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania**
**Application June 20, 1941, Serial No. 398,955**
**6 Claims. (Cl. 219—20)**

1. A temperature regulating device for an electric oven and the like comprising a broil element and a bake element adapted to be energized from a source of current supply through switches, said device comprising a thermostat for controlling the operation of said switches in accordance with the temperature of the oven, manual means movable to different temperature settings for adjusting said thermostat for preheating the oven and thereafter conducting a baking operation, said

elements being connected simultaneously to the current supply by said manual means and said broiling element being thereafter disconnected by operation of said thermostat, said means including a control handle movable from "off" position through a maximum position to a baking tem-



perature setting and an operating bar actuated thereby for closing the broil element switch, and auxiliary manual means for actuating said operating bar for closing said broil element switch for conducting a broiling operation while said control handle remains at said baking temperature setting.

---

2,389,015

## MANUFACTURE OF ARTIFICIAL TEXTILE FIBERS

Robert Louis Wormell, Coventry, England, assignor to Courtaulds Limited, London, England, a British company

No Drawing. Application May 15, 1943, Serial No. 487,181. In Great Britain June 24, 1942
2 Claims. (Cl. 8—127.6)

1. A process for increasing the resistance to the action of sodium carbonate and other mild alkaline solutions of hardened artificial textile fibers obtained from casein which consists in soaking the said fibers in an aqueous solution containing a salt taken from the group consisting of zinc salts and cadmium salts, and from which solution any added free acid has been excluded, and immediately after said soaking washing the treated fibers free from water-soluble compounds and then drying the fibers.

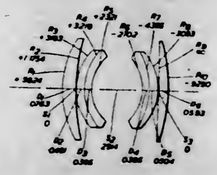
---

2,389,016

## OPTICAL OBJECTIVE

Charles Gorrie Wynne, Leicester, England

Application July 20, 1943, Serial No. 495,497
In Great Britain March 10, 1943
7 Claims. (Cl. 88—57)



1. An optical objective for photographic or other purposes, corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising two simple convergent components, and two compound divergent meniscus components located between the convergent components, and having their concave air-exposed surfaces facing one another and axially separated from one another by a distance lying between .27 and .33 times the equivalent focal length of the objective the radii of the front and rear surfaces of the front compound divergent component respectively lying between .30 and .35 and between .20 and .26, and those of the rear compound divergent component respectively between .24 and .31 and between .27 and .35 times the equivalent focal length.

---

2,389,017

## STABILIZER

Edwin Bagnall, Chicago, Ill.

Application October 29, 1941, Serial No. 416,945
15 Claims. (Cl. 267—67)



1. A stabilizer for use with a vehicle comprising a thin comparatively wide leaf element of spring steel, means carried by one end of said element for attachment to an axle of the vehicle with the element extending longitudinally of the vehicle and disposed in a substantially horizontal plane, a second thin comparatively wide leaf element of spring steel disposed at a right angle with said first mentioned element, means on one end of said second element for a rigid attachment to the chassis frame structure of the vehicle, and a right angle plate rigidly interconnecting the remaining ends of said elements.

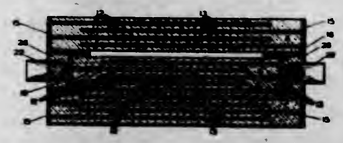
---

2,389,018

## TERMINAL FASTENING FOR ELECTRICAL CAPACITORS

Kermit H. Ballard, Perth Amboy, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 4, 1943, Serial No. 504,887
2 Claims. (Cl. 29—25.42)



1. The method of providing terminal connections or lead wires in electrical communication with ceramic capacitors of the type which comprises alternate layers of vitreous enamel dielectric, and alternate layers of fired metallic silver electrode plates which comprises: building up said ceramic capacitor in three separate sections, the innermost section being shorter than the two outermost sections so as to provide, when said three sections are assembled, indentations in which said lead wires may be positioned; positioning soldering electrodes in electrical communication with alternate layers of metallic silver forming the electrodes of said ceramic capacitor, said soldering electrodes being so arranged as to coat interior surfaces of said indentations; and soldering the electrical lead wires to said soldering electrodes while said lead wires are positioned in said indentations.

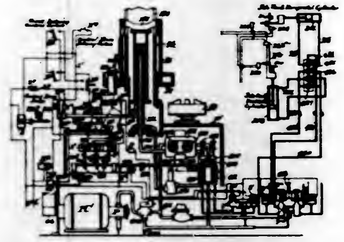


2,389,019

## VERTICAL TURRET MACHINE TOOL

Ralph L. Bazley and William E. De Voe, Detroit, Mich.

Application May 25, 1940, Serial No. 337,218
7 Claims. (Cl. 29—42)



1. In a vertical turret machine tool, a continuously rotating work support, a tool-holding turret head, means to move said head vertically, an index mechanism mounted in fixed vertical position and operative to index said head in every vertical position thereof and including an index plate, means to intermittently advance said plate angularly, an upper gear associated with said plate, a lower and similar gear on the turret head, and a positive gear connection between said upper and lower gears operative to index said head in every vertical position thereof, said connection including a pinion for each gear and a shaft connecting said pinions, said shaft being fixed to one pinion and being slidable but nonrotatable relative to the other pinion.

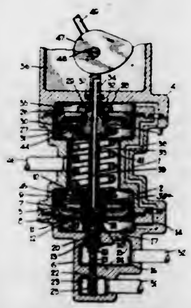
---

2,389,020

## FLUID PRESSURE CONTROL APPARATUS

Arthur J. Bent, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application June 30, 1943, Serial No. 492,839
12 Claims. (Cl. 303—54)



1. A control device comprising in combination, a spring, movable abutment means subject to pressure of fluid in one chamber and to opposing pressure of either or both said spring and of fluid in a second chamber and operable to provide fluid in said one chamber at a pressure proportional to said opposing pressure, means providing for varying the pressure of fluid in said second chamber, means adjustable to vary pressure of said spring on said abutment means, and means subject to pressure of fluid in said one chamber acting on said spring in opposition to pressure of fluid in said one chamber acting on said abutment means.



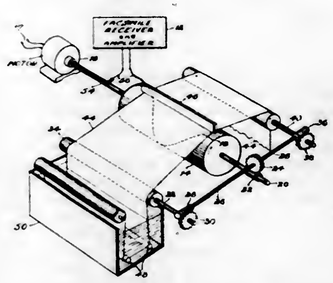
---

2,389,021

## RECORDING APPARATUS

Albert Blain, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1943, Serial No. 492,837
7 Claims. (Cl. 234—59)



1. A facsimile printing apparatus including a pair of recording electrodes, one of said electrodes including a plurality of conducting laminae positioned adjacent each other, the face of each lamina cooperating with the other recording electrode, means for positioning the recording electrodes so that a strip of record-receiving material may be positioned therebetween, and means for applying signal potentials to the recording electrodes.

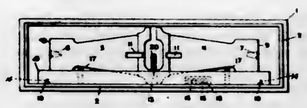
---

2,389,022

## TABLE

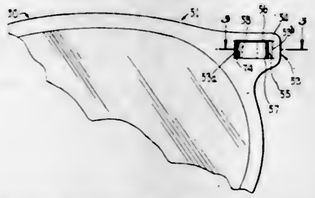
Walter Franklin Breen, Lancaster, and Moses Brendle Good, Ephrata Township, Lancaster County, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.

Application May 14, 1943, Serial No. 486,956
3 Claims. (Cl. 311—84)



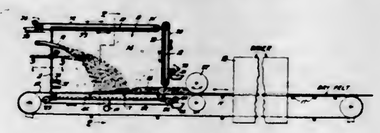
3. A table comprising a table top surface, protecting sides extending downward from said surface, legs hinged to the underside of said surface and movable to folded position substantially parallel to and in contact with the underside of said table top surface, an open compartment attached to the underside of said table top surface and adapted to house movable parts, a separable brace for securing said legs in said folded position, said brace extending over and forming a cover for said open compartment when in said leg securing position and means for locking said brace in said leg securing and compartment covering position.

**2,389,023**
**FRAME FOR EYEGLASSES**
**Percy M. Brown, East Orange, N. J., assignor, by mesne assignments, to Designs, Incorporated, Hoboken, N. J., a corporation of New Jersey**
**Application January 6, 1942, Serial No. 425,708**
**5 Claims. (Cl. 88—53)**



1. A frame for eyeglasses having similar, symmetrically disposed ears at opposite ends thereof, formed with substantially rectangular through openings, each opening having top and bottom surfaces and vertical end surfaces, a vertical shaft interconnecting the top and bottom surfaces of each opening, a temple piece for each ear, each temple piece comprising a shank having a portion projecting into said opening, and formed with a part-cylindrical surface surrounding part of said shaft, and a piece having a complementary part-cylindrical surface, said piece and shank having meeting surfaces on opposite sides of said shaft, and means to adhere said meeting surfaces, each shank having at its forward end a surface substantially perpendicular to the longitudinal axis of said shank, and substantially in the plane of the front of said frame.

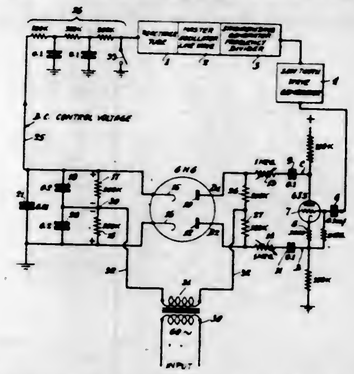
**2,389,024**
**MEANS FOR FORMING FIBER FELTS**
**Robert N. Brownlee, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware**
**Application August 10, 1942, Serial No. 454,281**
**13 Claims. (Cl. 19—156)**



1. Fiber-depositing apparatus comprising a fiber-settling chamber, a fiber-receiving member therein for receiving regularly deposited fibers, means for releasing fibers within the chamber at an elevation above said member, and endless conveyer means having a run operable within the chamber and of a length to traverse a wall thereof adjacent an edge of the receiving member for receiving deposited fugitive fibers and removing the same from the chamber.

**2,389,025**
**SYNCHRONIZER FOR OSCILLATORS**
**Richard L. Campbell, Maywood, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware**
**Application January 10, 1942, Serial No. 426,322**
**7 Claims. (Cl. 250—36)**

1. A synchronizer for an oscillator, comprising two diodes, means for applying impulses in phase opposition from said oscillator to the anodes of said diodes, and means to apply low frequency since wave impulses in parallel between the plates



and cathodes of said diodes, one of said cathodes being connected to ground and the other one to said oscillator.

**2,389,026**
**METHOD OF PREPARING TITANIUM DIOXIDE**
**Winfred J. Cauwenberg, Piney River, and Charles A. Tanner, Jr., Amherst, Va., assignors, by mesne assignments, to American Cyanamid Company, a corporation of Maine**
**No Drawing. Application November 20, 1942, Serial No. 466,338**
**8 Claims. (Cl. 23—202)**

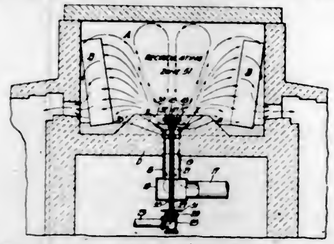
8. A process for the preparation of rutile titanium dioxide from hydrolysates which normally calcine to anatase which comprises filtering and washing such hydrolysates, adding to the filter cake a seed for converting anatase to rutile prepared by treating an alkali metal titanate with a monobasic acid in sufficient amount to completely convert the alkali metal content to the salt of the monobasic acid and to theoretically convert 20–50% of the titanium content to the normal salt of the monobasic acid, introducing trivalent titanium ions into the mixture as a member of the group consisting of a separately prepared titanous salt and trivalent titanium ions produced in situ by further treatment, heating the resultant mixture, flocculating the resulting slurry by adding an alkali to adjust the pH to about 4.5 to 7.5 and washing free of water-soluble salts, and thereafter filtering, washing and calcining the filter cake containing said seed at a temperature not exceeding 1000° C.

**2,389,027**
**HEATING FURNACE AND BURNER THEREFOR**
**Fred A. Corbin, Gary, and Harry F. Netzhammer, Hobart, Ind.**
**Application March 13, 1943, Serial No. 479,026**
**13 Claims. (Cl. 263—40)**

1. A burner for heating objects distributed laterally thereabout in a furnace and supported by the furnace structure, which comprises in combination, crater-like flame-deflecting and guiding means for the bottom of the furnace, a fuel supply column, a burner head mounted on the column and supported thereby, the burner head

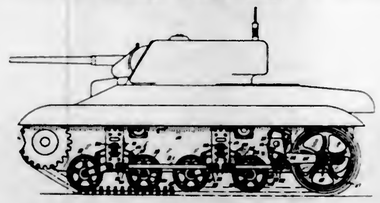


being positioned in the said crater-like means, air supply means for supplying air to the crater-like means for mixing air with fuel issuing from the burner head, the resulting intimate mixture being burned at the crater means, and mechanism for adjusting the height of the said fuel



supply column and burner head, the said crater-like means being adapted to deflect the flame of the said burning mixture substantially laterally of the furnace whereby objects being heated in the furnace receive substantially laterally at least the major portion of the said flame.

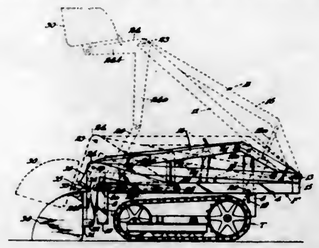
**2,389,028**
**ARMORED TANK CONSTRUCTION**
**William A. Cost, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana**
**Application October 8, 1943, Serial No. 505,455**
**1 Claim. (Cl. 305—9)**



In a vehicle of the endless-track type, comprising a main-body having a laterally distortable side wall, a plurality of laterally-projecting brackets secured to said wall at longitudinally-spaced points thereon, track-engaging wheels carried by said brackets, an endless track-belt encompassing said wheels, and an adjustable-length brace-rod connecting the outer ends of a pair of said brackets, whereby disturbance of parallelism of the axes of the track-laying wheels due to buckling of the side wall may be restored by length adjustment of the brace rod.

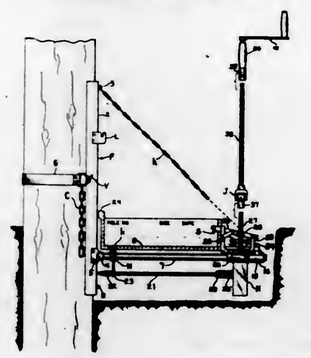
**2,389,029**
**FRONT END LOADER FOR SELF-PROPELLED VEHICLES**
**James W. Crabtree, Minneapolis, Minn.**
**Application August 23, 1944, Serial No. 550,706**
**5 Claims. (Cl. 214—140)**

1. A front end loader for a self-propelled vehicle having in combination a pair of rigidly connected side booms adapted to be pivoted at their rear ends to the rear end of said vehicle along a common horizontal axis disposed below the upper portion of said vehicle, power operating mechanism for said boom having a connection with said boom disposed forwardly of said pivot axis, an implement support swingably mounted at the outer ends of said booms and adapted to be disposed forwardly of the vehicle and across said booms, said support having an attachment arm extending downwardly from said booms when the latter are in lowered, material receiving position and a pair of rigid links disposed



at the respective sides of said vehicle for swinging said arm outwardly and upwardly to protract and tilt an implement attached to said arm when said booms are raised, said links being connected at their forward ends to the forward portion of said vehicle.

**2,389,030**
**POLE SOUNDNESS TESTER**
**Homer J. Dana, Pullman, Wash.**
**Application January 21, 1944, Serial No. 519,137**
**10 Claims. (Cl. 73—81)**

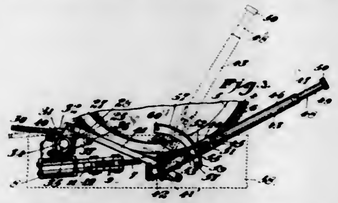


6. A pole soundness tester comprising a screw prod driven by a gear, a slidably mounted worm meshing with said gear, a spring urged by the end thrust of said worm, a scriber mechanism actuated by the end thrust of said worm, a graph holder mounted in operative position relative to said scriber, means to mount said device upon a standing pole, and means to turn said worm, whereby said scriber will record the soundness of the pole penetrated by said screw prod.

**2,389,031**
**BRAKING DEVICE**
**Harvey Ellis Davidson, Tulsa, Okla., assignor to Bethlehem Steel Company, a corporation of Pennsylvania**
**Application May 6, 1944, Serial No. 534,508**
**6 Claims. (Cl. 74—531)**

1. In a device of the class described, the combination of a supporting frame, a lever pivotally

mounted thereon, a quadrant fixed to the frame adjacent said lever having its inner and outer edges generated on radii about different centers,



a clutching mechanism carried by said lever to engage both edges of said quadrant at any desired point, and means carried by said lever for controlling said clutching means.

---

**2,389,032**
**CORN PROTECTOR SHIELD**
**Frank P. Donnelly, Alderson, Pa.**
**Application February 22, 1945, Serial No. 579,246**
**1 Claim. (Cl. 36—8.5)**

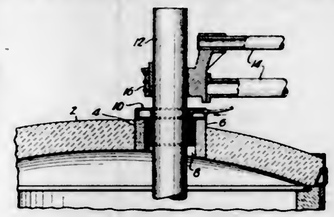


In a structure of the class described, in combination, a shoe provided with a corn-accommodation opening, and a shield mounted in and protruding outwardly beyond said opening, said shield being provided at its inner end with means for anchorage and attachment to the shoe around the marginal perimeter of said opening.

---

**2,389,033**
**ELECTRODE COOLER FOR ELECTRIC ARC FURNACES**
**John R. Dubsky, Chicago, Ill., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey**
**Application March 18, 1944, Serial No. 527,086**
**2 Claims. (Cl. 13—17)**

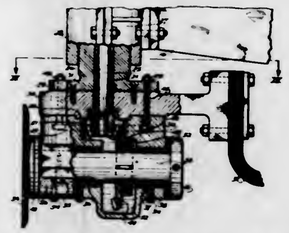
1. An electrode cooler for electric arc furnaces having a refractory roof comprising an inner ring having an internal diameter of sufficient size to accommodate the electrode, an inverted L-shaped cooling ring spaced from the inner ring, means for connecting the two rings to form an inverted L-shaped cooling chamber extending substantially around the electrode, the inverted leg of the cooling ring being adapted to extend for a substantial distance through the furnace roof and the horizontal leg being supported by the furnace roof, and means for circulating a coolant through the cooling chamber, said means including a pipe extending substantially to the bottom



of the chamber and being bent to follow the circumference of the chamber with its outlet at the end of the bent portion.

---

**2,389,034**
**WELDING MACHINE**
**Charles Eisler, Jr., Maplewood, N. J., assignor to Eisler Engineering Company, Newark, N. J.**
**Application February 18, 1944, Serial No 522,943**
**2 Claims. (Cl. 219—4)**



1. In a welding machine, a support, a slide bearing secured to said support, a ram positioned in said slide bearing, means to clamp said bearing on said ram, a flange on said ram, a turret holder, a boss on said holder, means to secure said flange to said turret holder, a turret having a recessed portion for complementary engagement with said boss to rotatably position said turret on said holder, said turret having a circular slot of T cross section, and a gate of T cross section communicating with said slot, bolts positioned in said slot through the gate thereof, and heads on said bolts engaging said slot to suspend the turret on said bolts, said turret holder and ram having apertures to receive said bolts, means to secure a welding member to said turret, and means engaging said bolts and ram flange to lock the parts together when tightened and to enable the turret to be rotated on said bolts when the engaging means are loosened.

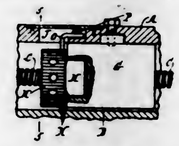
---

**2,389,035**
**BACKLASH TAKE-UP**
**Terence Wordsworth Feeney, Wellington, New Zealand**
**Application July 6, 1942, Serial No. 449,924**
**1 Claim. (Cl. 74—441)**

An apparatus for compensating backlash between a feed screw and block nut in a tool slide of a machine tool comprising a back nut fitted upon the feed screw alongside the block nut and adapted by rotation upon the screw, to be moved along the screw into abutting relation to the said block nut, and means operable for locking



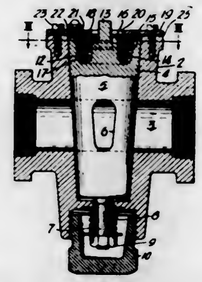
said back nut to the slide in said relation to prevent any rotative movement of the nut upon the screw, and operable to free said nut to permit



such movement, such means including longitudinal serrations on the back nut and a spring tooth affixed to the slide engaging said serrations.

---

**2,389,036**
**MEANS FOR SEALING ROTARY PLUG TYPE VALVES**
**William A. Fennell, Clairton, Pa.**
**Application March 23, 1943, Serial No. 480,209**
**2 Claims. (Cl. 286—9)**



1. In a valve of the rotary plug type, a cap member formed with a flange portion on the inner side thereof and a shaft formed with a shoulder to provide an annular surface under the cap member and provided with an annular groove in the shoulder, means for sealing the outer end of the shaft comprising an annular member disposed in the groove having a flange portion which extends outwardly toward the cap member, said flange portion disposed substantially parallel to and spaced from the flange on the cap member, and an annular packing member arranged between said annular member and the cap member and the flange on said cap member.

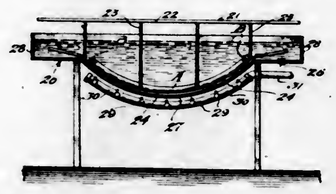
---

**2,389,037**
**CORSET STAY MOUNTING**
**Louisa Forget, Haileybury, Ontario, Canada**
**Application June 30, 1943, Serial No. 492,856**
**2 Claims. (Cl. 2—36)**



1. In a corset, a fabric structure, a flattened rigid tubular member having one end further flattened to a closed condition and secured to said structure, the other end of said member being open, and a stay having one end snugly fitted in said member through said open end.

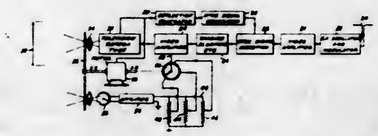
**2,389,038**
**METHOD OF BENDING PLASTIC TUBING**
**Milo German, Conad, Nebr.**
**Application May 4, 1945, Serial No. 591,997**
**2 Claims. (Cl. 18—56)**



1. The method of bending plastic tubing which comprises filling the bore of the tubing with a finely divided dehydrated substance of an inert character, plugging the ends of the tubing to confine the finely divided substance and prevent the entrance of moisture into the interior of the tubing, suspending the tubing by opposite ends over a form conforming to the contour which is to be imparted to the tubing, introducing the tubing thus suspended into a bath of heated liquid, allowing the tubing to sag to conform to the shape of the form, cooling the tubing in the liquid, extracting the tubing from the liquid, removing the plugs from the ends of the tubing and discharging the finely divided substance from the interior of the tubing.

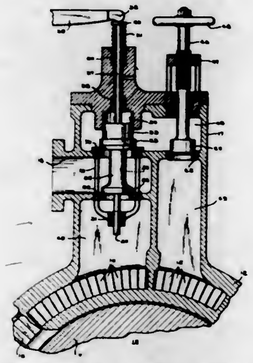
---

**2,389,039**
**COLOR TELEVISION SYSTEM**
**Alfred N. Goldsmith, New York, N. Y.**
**Application December 30, 1943, Serial No. 516,149**
**11 Claims. (Cl. 178—5.4)**



1. A color television transmitting system comprising a television image pickup tube, means for projecting optical images of a subject matter to be televised upon a light responsive surface in said tube, the images sequentially representing the light content of a plurality of different color components of the subject matter, means including said tube for converting the optical images into a series of television video signals, a video amplifier for increasing the intensity of the produced video signals, a light responsive element, means for sequentially projecting light representing a plurality of different color components of the subject matter upon the light responsive element to develop a corresponding control potential, and means sequentially to apply predetermined intensities of the developed control potential to the video amplifier to alter the amplification thereof in synchronism with the sequential projection of the different color component images on the light responsive electrode of the television image pickup tube.

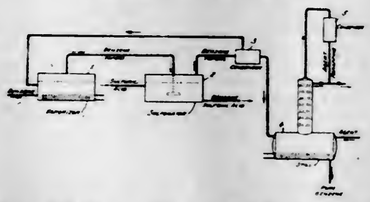
**2,389,040**
**CONTROL APPARATUS**
**Manious Gottlieb, Philadelphia, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 5, 1943, Serial No. 481,811**
**3 Claims. (Cl. 253—78)**



1. In apparatus for utilizing elastic fluid; first and second groups of nozzles, means providing an inlet passage for elastic fluid, a double-seat valve for automatically controlling flow of elastic fluid through said inlet passage, and including closure members spaced a distance corresponding to the spacing of the seats, whereby both of said valve seats are uncovered and covered simultaneously means providing a first connecting passage for conducting elastic fluid passing one of the valve seats of said double-seat valve to the first group of nozzles, means providing a second connecting passage independent of the first connecting passage for conducting elastic fluid passing the other of the valve seats of said double-seat valve to the second group of nozzles, and a second valve for controlling flow of elastic fluid through said second connecting passage.

---

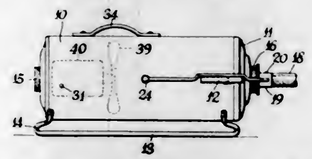
**2,389,041**
**PROCESS FOR THE PRODUCTION OF HIGH-PURITY AROMATIC HYDROCARBONS**
**David F. Gould, Riverton, N. J., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York**
**Application August 16, 1941, Serial No. 407,219**
**8 Claims. (Cl. 260—674)**



8. A process for the production of a high-purity relatively low-boiling aromatic hydrocarbon and the corresponding sulfonic acid, said hydrocarbon being selected from the group consisting of relatively low-boiling unsubstituted aromatic hydrocarbons and relatively low-boiling aromatic hydrocarbons substituted in the nucleus by a saturated side chain, which process comprises subjecting vapors of a less pure, relatively low-boiling aromatic hydrocarbon selected from the above group containing like-boiling paraffinic hydrocarbons to contact with a body of liquid sulfuric acid of sulfonating strength at a temperature not below the boiling point of the hydrocarbon at the pressure employed, withdrawing the aromatic hydrocarbon sulfonic acid thus produced, condensing unreacted aromatic hydrocarbon vapors passing from the sulfuric acid, separating water from the condensate, vaporizing the aromatic hydrocarbon condensate thus separated, recycling said vapors through the sulfuric acid, continuing condensation of excess vapors passing from said acid, separation of water, vaporization and recycling until the paraffin content of the aromatic hydrocarbon being recycled builds up substantially, and then subjecting this recycled aromatic hydrocarbon containing like-boiling paraffinic hydrocarbons to azeotropic distillation in the presence of an agent forming azeotropes with the paraffinic hydrocarbons contained therein to produce the high-purity aromatic hydrocarbon.

---

**2,389,042**
**SUCTION CLEANER**
**Llewellyn A. Griffith, Buffalo, N. Y.**
**Application December 21, 1944, Serial No. 569,173**
**7 Claims. (Cl. 15—14)**



1. A suction cleaner comprising a floor-type tank having an air displacing fan and an operating motor therefor disposed therein, an air inlet opening and an air discharge opening at opposite ends of said tank, an extension conduit and means at one end thereof adapted to seat over either of said openings, and supporting arm means fixed to said conduit and extending therefrom to pivotal engagement with said tank substantially medially of said openings, whereby pivotal movement of said arm means through substantially a semi-circle reverses the fluid connection of said conduit with said tank.

---

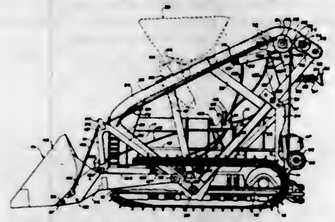
**2,389,043**
**STEEL IN ELEVATED TEMPERATURE SERVICE UNDER STRESS**
**Marcus A. Grossmann, Chicago, Ill., and Richard F. Miller, Pittsburgh, Pa., assignors of one-half to Carnegie-Illinois Steel Corporation, a corporation of New Jersey, and one-half to United States Steel Corporation of Delaware, a corporation of Delaware**
**No Drawing. Application June 22, 1944, Serial No. 541,646**
**1 Claim. (Cl. 75—126)**

A method of maintaining stress in steel within the temperature range of from about 850° to 1100° F.; including making a steel of the pearlitic, non-air-hardening type containing from .08 to .20% carbon and from .45 to .65% molybdenum in conjunction with from .15 to less than 1% chromium which is proportioned respecting the carbon content to fix substantially all the carbon in the form of carbide that is stable within said temperature range, the steel otherwise being of a composition suitable for its type; and applying force to this steel to maintain stress therein while maintaining it within said temperature range.



---

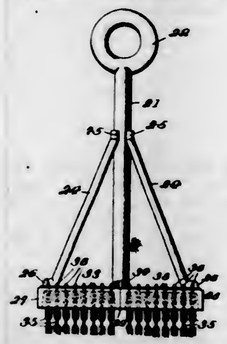
**2,389,044**
**MATERIAL DIGGING AND HANDLING APPARATUS**
**Stephen Grubich, Milwaukee, Wis.**
**Application June 27, 1944, Serial No. 542,311**
**20 Claims. (Cl. 214—103)**



1. In a material handling apparatus, the combination with a frame, of a runway on said frame, a bucket adapted to traverse said runway during a portion of its cycle of operation; actuating means adapted to move said bucket in its aforesaid cycle; rigid arm means engageable with said bucket and operable responsive to said actuating means for lifting said bucket and guiding it to and from said runway; said bucket being detachably and pivotally associated with said rigid arms, power means for pivotally actuating said bucket while associated with said rigid arm means for digging and dumping displacement thereof independent of said runway, and means on said runway for disengaging said rigid arm lifting means from the bucket during the travel of said bucket on said runway.

---

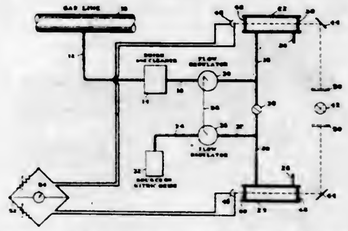
**2,389,045**
**SUCKER ROD HANGER**
**John L. Haddock and Steve Dixon, Compton, Calif.**
**Application June 30, 1944, Serial No. 542,938**
**3 Claims. (Cl. 211—60)**



1. A sucker rod hanger comprising a plate supporting member having pairs of aligned openings therein, pairs of oppositely disposed supporting bars, said bars extending from the center of the plate adjacent the upper surface thereof and registering with said openings, sucker rod supporting chains, the upper links of which are passed upwardly through the openings and engaged by the supporting bars.

---

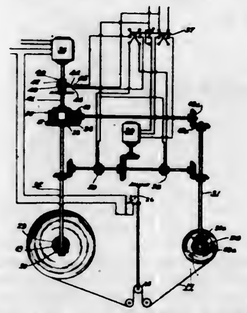
**2,389,046**
**METHOD OF ANALYZING GASES**
**Donald G. C. Hare, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application September 4, 1941, Serial No. 409,480**
**1 Claim. (Cl. 23—232)**



The method of determining the oxygen content of a gas used in the reactivation of a catalyst which comprises drying and cleaning a continuously flowing sample stream of said gas, dividing the stream of dried and cleaned gas into two portions, conducting one of said portions through a first transparent chamber and the other portion through a second transparent chamber, adding to said other portion after division and before its passage through the second chamber a quantity of nitric oxide in amount capable of combining with all of the oxygen which might be in said other portion to form an oxide of nitrogen darker than the original gas, controlling the amount of nitric oxide added to said other portion in accordance with the rate of flow of the dried and cleaned gas before division so as to maintain a predetermined ratio between the volumes of nitric oxide added and gas before division, passing an equal amount of light radiation through said chambers and measuring the difference in the amount of light absorbed in said chambers.

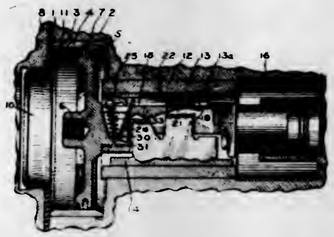
---

**2,389,047**
**TENSION REGULATING MECHANISM**
**Winfield B. Heins, Bound Brook, N. J.**
**Application July 3, 1943, Serial No. 493,457**
**6 Claims. (Cl. 242—75)**



3. In a machine for winding material from one to another of a pair of rolls, means to selectively drive said rolls in the same direction, a differential having one of its elements in driving relation to one roll and a second element in driving relation to the other roll, and means controlled by the direction of rotation of the third element of the differential for automatically transferring the drive from one to the other of said rolls.

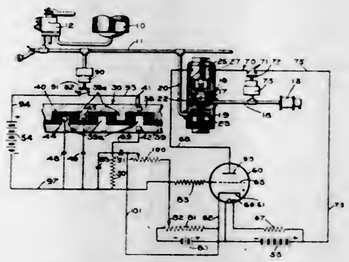
**2,389,048**
**BRAKE VALVE DEVICE**
**Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application March 31, 1943, Serial No. 481,324**
**1 Claim. (Cl. 303—1)**



In combination, a casing having a piston bore, a piston head mounted to reciprocate in said bore, a valve chamber disposed on one side of said piston head, a stem projecting from one face of said piston and extending through said valve chamber, means supporting the end of said stem in coaxial relation with said bore, a slide valve disposed in said valve chamber and operatively connected to said stem, a leaf spring, carried by said slide valve and having sliding contact with a wall of said valve chamber for urging said slide valve against its seat, an extension carried by said leaf spring, and pressure exerting means interposed between said extension and said stem and acting on said stem to urge said head radially against the wall of said bore.

---

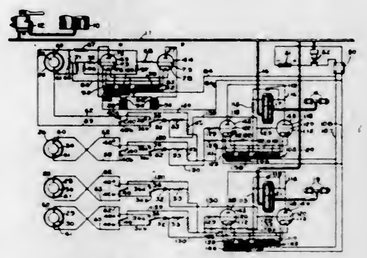
**2,389,049**
**ELECTRONIC BRAKE CONTROL APPARATUS**
**Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application March 4, 1944, Serial No. 525,025**
**18 Claims. (Cl. 303—21)**



1. In a vehicle wheel brake system having electro-responsive brake controlling means operable, after an application of the brakes has been effected, to reduce the degree of application of the brakes, in combination, electrical control apparatus constructed and arranged to establish an electrical characteristic that is a measure of a rotative condition of the vehicle wheel, a source of electrical energy, an electric discharge device having a control member subject to a potential determined by said electrical characteristic, and an anode-cathode circuit connected to said source and to said brake controlling means, and means for impressing a biasing voltage on said control member for rendering said electric discharge device normally nonconductive, said electric discharge device being rendered conductive by alteration of the resultant voltage on said control member in response to a predetermined change in said electrical characteristic.

---

**2,389,050**
**ELECTRONIC BRAKE CONTROL SYSTEM**
**Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application April 28, 1944, Serial No. 533,117**
**17 Claims. (Cl. 303—21)**



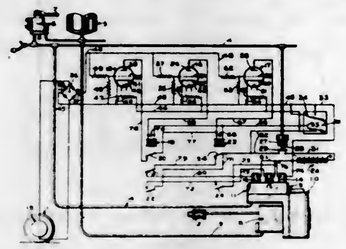
15. In a fluid pressure brake control system for a vehicle having a wheel on which the brakes may be applied and released under the control of the operator, in combination, electroresponsive brake control means operative, when energized, to cause a reduction in the degree of application of the brakes active on the wheel, an electron discharge device having a control member, a source of alternating-current voltage, means for impressing a biasing voltage from said source on said control member so as to render said discharge device normally non-conductive, means responsive to a predetermined rotative condition of the wheel for impressing a voltage on said control member in opposition to the normal biasing voltage thereon for rendering said discharge device conductive, said discharge device being effective, when conductive, to effect energization of said electroresponsive brake control means from said source.

---

**2,389,051**
**ELECTRONIC BRAKE CONTROL APPARATUS**
**Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application June 14, 1944, Serial No. 540,278**
**17 Claims. (Cl. 303—21)**

1. In an electropneumatic speed controlled brake equipment for a wheeled vehicle including a brake cylinder, a pipe chargeable with fluid at different pressures to select a degree of application of the brakes, and an electro-responsive relay valve device variously conditionable for response to any given pressure in said pipe for relating brake cylinder pressure thereto in different preselected ratios corresponding to vehicle speed, in combination, a control circuit, means for energizing said control circuit in proportion to the vehicle speed, a source of electrical energy, a transformer connected thereto, electron discharge means connected to said transformer and operative to control the conditioning of said relay valve device, and means for rendering said electron

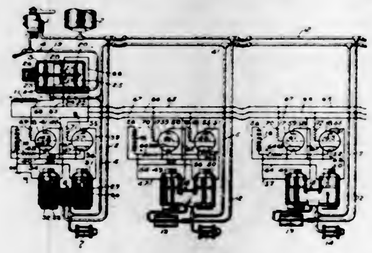




discharge means responsive to the degree of energization of said control circuit.

---

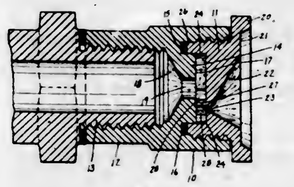
**2,389,052**
**ELECTROPNEUMATIC BRAKE SYSTEM**
**Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application July 1, 1944, Serial No. 543,080**
**7 Claims. (Cl. 303—20)**



1. An electronically controlled electropneumatic braking system comprising means for effecting application and release of the brakes including an application magnet and a release magnet, a control pipe chargeable with fluid under pressure preselected according to any desired degree of application of the brakes, a master controller device including fluid pressure actuated switch means responsive to relative changes in pressure of fluid in said control pipe and an opposing pressure measuring the degree of application of the brakes, an electron discharge device including a control member and an anode-cathode circuit for energizing said application magnet, another electron discharge device including a control member and anode-cathode circuit for energizing said release magnet biasing circuits connected to said control members, respectively, and normally conditioned by said master controller device to impress a negative potential on each of said control members for rendering each electron discharge device nonconductive in maintaining the brakes released, said master controller being operative upon an increase in control pipe pressure first to interrupt the biasing circuit for the electron discharge device controlling said release magnet and then to interrupt the biasing circuit for the control member of the electron discharge device for said application magnet.

**2,389,053**
**SPRAY NOZZLE**
**Howard H. Hobbs and William A. Zaloudek, Tipton, Ind., assignors to The Oakes Manufacturing Company, Tipton, Ind., a corporation**
**Application August 28, 1943, Serial No. 500,324**
**1 Claim. (Cl. 299—114)**

A two piece spray nozzle comprising a body member provided with an axially disposed liquid discharge orifice and having a protruding portion surrounding said orifice formed with a sealing surface, a cap member adapted to screw into said body member, said cap member having an integrally formed curved baffle on the inner surface thereof adjacent the body member to provide a substantially convolute recess, said baffle being in sealing engagement with the protruding sealing surface of said body member, said recess communicating with a restricted spray



orifice in said cap member positioned off center and offset from said discharge orifice, said discharge orifice being in communication with one end of said recess and said spray orifice being in communication with the other end thereof, and an outwardly protruding peripheral flange extending about said cap concentric with said discharge orifice and eccentric with respect to said spray orifice, said orifices and integral baffle being so related as to develop a swirling motion to the discharged liquid.

---

**2,389,054**
**PYRIDINE DERIVATIVES AND PROCESS FOR THE MANUFACTURE OF SAME**
**Max Hoffer, Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**
**No Drawing. Application September 2, 1941, Serial No. 409,298. In Switzerland September 2, 1940**
**3 Claims. (Cl. 260—295.5)**

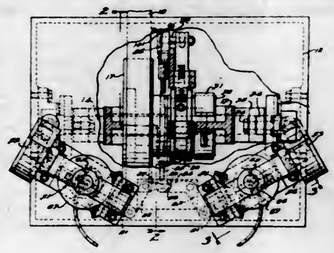
1. A process of producing 2-methyl-4 phenoxymethyl 5 cyano 6 chlor pyridine 3 carboxylic acid azide which comprises reacting 2 methyl 4 phenoxymethyl 5 cyano 6 chlor pyridine 3 carboxylic acid chloride with hydrazine in presence of strong alkali and reacting the thus formed 2 methyl 4 phenoxymethyl 5 cyano 6 chlor pyridine 3 carboxylic hydrazide with sodium nitrite to form the 2 methyl 4 phenoxy 5 cyano 6 chlorpyridine 3 carboxylic acid azide and separating the thus formed azide.

---

**2,389,055**
**SPRING BENDING MACHINE**
**Frank J. Horton, Detroit, Mich., assignor to No-Sag Spring Company, Macomb County, Mich., a corporation of Michigan**
**Application April 26, 1943, Serial No. 484,565**
**11 Claims. (Cl. 140—105)**

1. In a bending machine, means for clamping an element to be bent in fixed position therein,

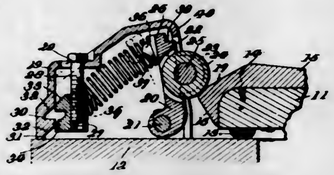
a rotatable member engaging an end of the element and being rotatable about one axis, a revolvable support for said rotatable member and



which turns about a second axis, means for revolving said support, and means interconnected to said rotatable member for rotating said member when the support is revolved.

---

**2,389,056**
**REFRIGERATOR DOOR FASTENER**
**John Vincent Jamison, Jr., Hagerstown, Md., assignor to Jamison Cold Storage Door Company, Hagerstown, Md., a corporation of Maryland**
**Application April 28, 1944, Serial No. 533,148**
**2 Claims. (Cl. 292—79)**

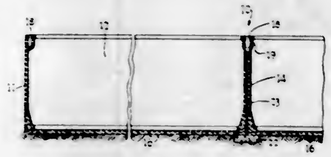


1. A door fastener comprising a keeper having a tapered face at the locking end thereof, a pivoted latch lever disposed at substantially right angles to the plane of the door, a roller mounted on said lever and cooperating with the keeper for holding the door closed, a housing for enclosing the latch lever, said housing having an inclined face at the side thereof opposite the latch lever, an abutment disposed within said housing and adapted to be shifted relative thereto, said abutment having an inclined face initially contacting the inclined face of the housing, a pair of springs between the abutment and the latch lever for urging the roller into engagement with the keeper, said springs being disposed upon opposite sides of a center plane at right angles to the axis of the pivoted latch lever and a bolt carried by the housing and attached to said abutment for shifting the same along the inclined face of the housing for varying the tension of said springs.

---

**2,389,057**
**REINFORCED CONCRETE TANK**
**Charles Kandall, New York, N. Y.**
**Application August 17, 1943, Serial No. 499,011**
**16 Claims. (Cl. 72—13)**

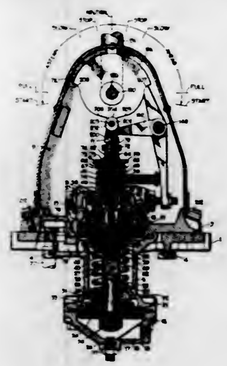
1. A tank structure having side walls and floor slabs and division walls dividing the structure into a series of tanks, said division walls being double and each being formed with a dividing



space extending to the bottom surface of the structure.

---

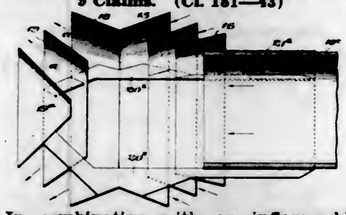
**2,389,058**
**CONTROL VALVE DEVICE**
**Cecil S. Kelley, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Original application October 30, 1942, Serial No. 463,915. Divided and this application February 28, 1945, Serial No. 580,258**
**5 Claims. (Cl. 303—54)**



1. A control device comprising in combination, a self-lapping valve device including a movable abutment subject on one side to pressure of fluid in a chamber and operable with said abutment in a normal position to open said chamber to atmosphere and upon movement of said abutment from said normal position in one direction to provide fluid in said chamber at a pressure proportional to such movement, a cam operative to control movement of said abutment, and a lever for operating said cam, said lever and cam having a normal position providing for normal positioning of said abutment and being movable from said normal position to a second position to actuate said abutment to provide fluid at a certain pressure in said chamber and being further movable to a third position for providing fluid at a greater pressure in said chamber, means arranged to resiliently secure said cam and lever in said second position against movement by pressure of fluid in said chamber on said abutment, said cam being so designed as to render pressure of fluid in said chamber acting on said abutment in said third position effective to urge said cam and lever from said third position to said second position.



**2,389,059**
**MEANS FOR TREATING INFLAMMABLE GASES**
**Franz J. Kurth, New York, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware**
**Application June 1, 1942, Serial No. 445,346**
**9 Claims. (Cl. 181—43)**



1. In combination with an inflammable-gas conduit, a plurality of open-ended hollow tapering members disposed substantially in axial alinement with one another and with said conduit and located adjacent to the gas outlet end of said conduit and spaced outwardly from said conduit and from one another and tapering in the direction of flow of gases discharged from said conduit and having successively greater amounts of taper, whereby air flowing along said conduit toward its discharge end is divided into separate streams and said streams are deflected at different angles into gases discharged from said conduit to dilute them.

---

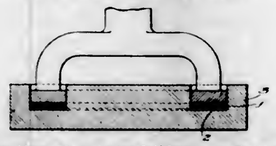
**2,389,060**
**REFRACTORY BODY OF HIGH ELECTRONIC EMISSION**
**Jacob Kurtz, Teaneck, N. J., assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware**
**Application August 13, 1943, Serial No. 498,582**
**6 Claims. (Cl. 250—27.5)**



1. Refractory body having high electronic emission when heated consisting of refractory metal of the group consisting of tungsten and molybdenum and their alloys of foraminate structure coated with electron emitting oxides both on the external surfaces and on the surfaces of the foramina of said body.

---

**2,389,061**
**POWDERED METAL BODY AND METHOD OF MAKING SAME**
**Jerome Kuzmick, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn., a corporation of New Jersey**
**Application April 8, 1941, Serial No. 387,468**
**8 Claims. (Cl. 29—181)**



1. A friction element which comprises a friction facing including a compacted substantially homogeneous mixture of a powdered metal, and a ceramic binder, said binder being in substantially fused or vitrified condition, said facing being united to a solid metal backing plate by sintered metal particles and by said substantially fused or vitrified ceramic binder.

---

**2,389,062**
**CALCULATING MACHINE**
**Harry L. Lambert, Enfield, N. Y., assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y.**
**Application February 20, 1942, Serial No. 431,745**
**4 Claims. (Cl. 235—130)**



1. In a machine of the class described, having a plurality of rows of keys; means on the keys; sensing means including members normally out of engagement with the keys but movable a predetermined extent to engage the keys; means tending to move the sensing means a predetermined extent to move the members into engagement with the keys during an initial portion of an operation of the machine; said means on the keys being effective, when a key is in a partially depressed or intermediate position, to cooperate with the members and prevent the sensing means from moving said predetermined extent during said initial portion of the operation of the machine; and means controlled by the sensing means to prevent the operation of the machine beyond said initial portion of its operation if the sensing means has not moved said predetermined extent during said initial portion of the machine operation, the combination of a control means cooperable with the keys of one of said rows and shiftable from a normal postion by the depression of any key in the row; and interponent means cooperable with said sensing means and with the control means in its normal position to prevent the sensing means from moving said predetermined extent during the initial portion of the operation of the machine; said interponent allowing the sensing means to move the members toward the keys during the initial portion of the operation of the machine if the control means has been shifted from its normal position by the depression of a key in said one row, whereby the keys of said one row are also effective to control the operation of the sensing means to prevent the operation of the machine beyond said initial portion of its operation unless one of the keys in said row has been depressed.

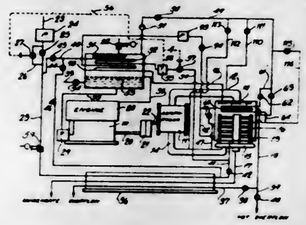
---

**2,389,063**
**DENTURE PROSTHESIS**
**Ervin G. Lang, New Ulm, Minn.**
**Application May 6, 1943, Serial No. 485,847**
**8 Claims. (Cl. 32—19)**



1. In combination with a pair of bite blocks fitting a patient's jaws, a bearing post mounted for tilting on one of said blocks and a bearing plate mounted in substantially horizontal position on the other bite block in point contact with and in opposition to the end of said bearing post.

**2,389,064**
**METHOD OF AND APPARATUS FOR DISTILLATION**
**Allen Latham, Jr., Jamaica Plain, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts**
**Application February 24, 1943, Serial No. 476,882**
**20 Claims. (Cl. 202—75)**



1. In instituting a method of distillation wherein a solution is heated in a vaporization zone with evolution of vapor in said vaporization zone, the evolved vapor is directed to a compressor, the evolved vapor is compressed by said compressor to a pressure at which the condensing temperature of the vapor is above the boiling point of the solution, compressed vapor is directed to a heat exchanger, the compressed vapor is condensed in said heat exchanger in out-of-contact heat-exchange relation with said solution in said vaporization zone, hot condensate is withdrawn from said vaporization zone, fresh solution to be distilled is introduced into said vaporization zone, and power for operating said compressor is supplied by an internal combustion engine, the region where said vapor is evolved from solution in said vaporization zone, is directed to said compressor, is compressed by said compressor, is directed from said compressor to said heat exchanger and is condensed in said heat exchanger in out-of-contact heat-exchange relation with solution in said vaporization zone being the vapor region of the system, the steps comprising introducing a body of solution into said vaporization zone, then substantially cutting off the feed of fresh solution into said vaporization zone, and heating said body of solution in the vaporization zone by heating a fluid by heat derived from said internal combustion engine in cooling same and directing said heated fluid into said vapor region of the system to heat said body of solution contained in said vaporization zone independently of the supply of feed to said vaporization zone and irrespective of and supplemental to any heat supplied by introducing any additional fresh solution into the body of solution in the vaporization zone.

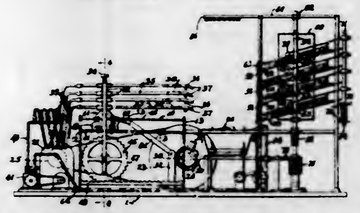
---

**2,389,065**
**PROCESS FOR THE MANUFACTURE OF NICOTINIC ACID**
**John Lee, Nutley, N. J., and Stephen D. Heineman, New York, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**
**No Drawing. Application September 24, 1941, Serial No. 412,157**
**4 Claims. (Cl. 260—295.5)**

1. In a process for the manufacture of nicotinic acid, the steps of heating quinolinic acid in an indifferent liquid medium selected from the group consisting of nonaethylene glycol and a mixture of toluol with a substantial amount of nonaethylene glycol, in which medium nicotinic acid is substantially insoluble at room temperature, within the temperature range of from 110 to 135° C. until the evolution of carbon dioxide ceases, cooling the medium, and recovering the nicotinic acid thus produced.

---

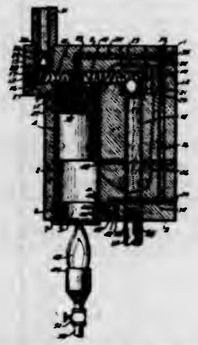
**2,389,066**
**PAPER COLLATING MACHINE**
**Charles L. Leifer, Forest Hills, N. Y.**
**Application May 8, 1944, Serial No. 534,583**
**23 Claims. (Cl. 270—58)**



1. A paper collating machine, comprising a frame, a carriage on said frame for reciprocating back and forth, means for reciprocating said carriage, a post mounted on said carriage, air sucker support members slidably mounted on said post, means for separating said support members when said carriage is at one end of its stroke and moving said support members together when said carriage is at the other end of its stroke, paper lifting air sucker means mounted on said support members, paper supply feed plates located at the separated positions of said support members, and a paper receiving and stacking delivery table located at the moved together positions of said support members, said frame including end walls, several rods mounted between said walls, and a grooved bar mounted between the walls.

---

**2,389,067**
**THERMAL PUMP**
**Edgar M. Lieberman, Kansas City, Mo.**
**Application November 13, 1943, Serial No. 510,148**
**15 Claims. (Cl. 103—5)**

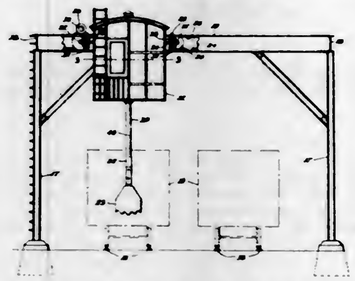


1. In a pumping apparatus of the character described, a pump body having a chamber therein, a piston reciprocable in said chamber, inlet and outlet connections in one end of the chamber for movement of liquid to and from said chamber in response to reciprocation of said piston, means for applying vapor pressure to the other end of the chamber for effecting movement of the piston therein in one direction, means controlled by said movement of the piston for reducing vapor pressure in the chamber and for reversing movement of said piston, and means actuated by reciprocation of said piston for metering liquid to be vaporized to form the vapor pressure in said chamber for causing the reciprocation to be continuous.



---

**2,389,068**
**DISPENSING APPARATUS**
**Joseph F. Longhway, Oswego, N. Y.**
**Application December 29, 1943, Serial No. 516,101**
**4 Claims. (Cl. 262—13)**



1. An apparatus of the character described, comprising a cab suspended with permissible movement in horizontal directions, a plunger carried from said cab and vertically movable therein, a motor for operating said plunger said motor being releasable from driving connection with said plunger, and means for actuating said plunger to its upward position on release of the motor from driving connection therewith.

---

**2,389,069**
**HYPODERMIC NEEDLE GRINDER**
**Eneas G. Mascarenhas, Minas, Brazil**
**Application June 17, 1944, Serial No. 540,779**
**2 Claims. (Cl. 51—221)**

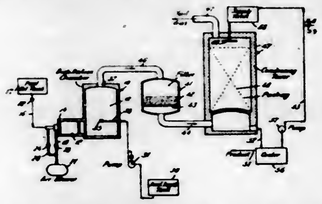


1. A hypodermic needle sharpening device including a unitary holding block, a bore in said block extending from one side thereof at an angle through said base, said bore being reduced adjacent said base, a split tube in the other portion of said bore, a screw extending through said block and engaging said split tube whereby the tightening of said screw positions the needle in said bore.

---

**2,389,070**
**MANUFACTURE OF SULPHURIC ACID**
**Henry F. Merriam, West Orange, N. J., and Andrew M. Harkness, Nyack, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York**
**Application October 8, 1942, Serial No. 461,292**
**5 Claims. (Cl. 23—172)**

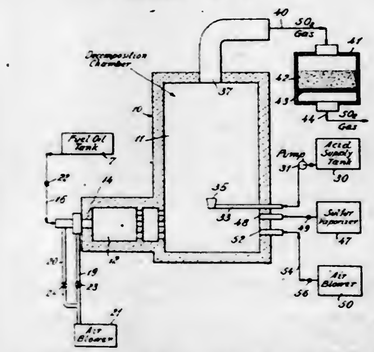
4. The method for producing sulphuric acid which comprises spraying denitrated spent sulphuric acid from the manufacture of trinitrotoluene and containing organic impurities (determined as carbon) in amount not in excess of 1.5% by weight into the lower end of a vertically disposed reaction chamber having a gas-vapor outlet at the top, burning carbonaceous fuel to form hot gas, introducing said gas into the lower end of said chamber and into direct contact with the disseminated acid therein, controlling formation of said gas so that (1) substantially complete combustion of carbonaceous combustible constituents to $CO_2$ is effected, (2) the $CO_2$ content of said gas is not more than 10.5% by volume, and



(3) the temperature of said gas is high enough to maintain temperature in the reaction chamber not more than 1400° F., and not less than 900° F. at the same gas-vapor outlet, effecting during the reaction and while in suspension in the hot gas substantially complete volatilization of all liquid fed to the reaction chamber, and regulating supply of reactants to said zone so that the gas-vapor mixture as discharged from the reaction chamber contains, as $SO_3$, upwards of 90% of the sulphur constituent of the acid fed into the reaction zone.

---

**2,389,071**
**PRODUCTION OF SULPHUR DIOXIDE**
**Henry F. Merriam, West Orange, N. J., assignor to General Chemical Company, New York, N. Y., a corporation of New York**
**Application April 7, 1943, Serial No. 482,161**
**9 Claims. (Cl. 23—172)**

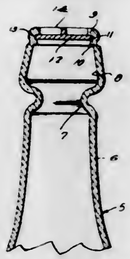



1. The method for producing sulphur dioxide by decomposing sulphuric acid containing organic reducing material in amount less than that required to reduce the $H_2SO_4$ content of said acid to $SO_2$ and water which method comprises disseminating said acid in a reaction zone, introducing into the reaction zone into direct contact with the disseminated acid hot combustion gas substantially free of carbonaceous material other than CO and $CO_2$, supplying to said zone reducing material, selected from the group consisting of elemental sulphur and hydrogen sulphide, in

amount such that the total quantity of reducing material supplied to said zone is sufficient to reduce at least 80% of the $H_2SO_4$ content of said acid to $SO_3$ and water, thereby forming $SO_3$ gas, discharging $SO_3$ gas from said zone, maintaining temperatures in said zone such that the temperature of the gas exiting said zone is not less than 900° F., and regulating the decomposing reaction so that the $SO_3$ gas discharged from said zone contains oxidizing agent of the group consisting of (*a*) free oxygen in amount not less than 0.5% and not more than 1% by volume, and (*b*) $SO_3$ in amount not less than 1% by volume.

---

**2,389,072**
**BOTTLE CLOSURE**
**Jacob F. Millard, Martinsburg, W. Va.**
**Application July 29, 1942, Serial No. 452,779**
**2 Claims. (Cl. 215—31)**

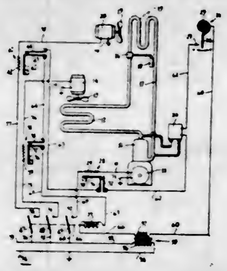


2. A bottle including a neck portion, an internal rib in the neck portion providing a restricted opening in said neck portion and defining an enlarged head having a chamber therein outwardly of the restricted opening, said head tapering toward its outer end and the outer end of the head being oval-shaped, an internal beading in the oval-shaped portion of the head adjacent its outer end, an inturned lip at the open outer edge of the head and spaced from the beading to form an annular groove between the beading and the rib, and an oval-shaped disk adapted for removably positioning in said groove, said disk having a beveled edge adapted to facilitate riding of the disk over the beading into the groove and said lip and said beading extending laterally inwardly one beyond the other to prevent movement of the disk past the innermost thereof when the disk is arranged in a matching position in the groove of the neck.

---

**2,389,073**
**OVERLOAD PROTECTION FOR REFRIGERATION SYSTEMS**
**Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application April 23, 1943, Serial No. 484,152**
**4 Claims. (Cl. 62—4)**

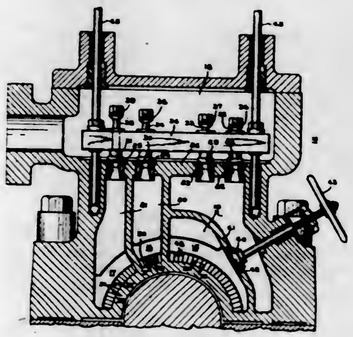
1. In a refrigerating system, a plurality of electric motors, a refrigerant circulating means driven by one of said motors, means responsive to refrigerant pressure, individual overload responsive means responsive to the load conditions of each of said motors, and circuit means controlling the energization of said motors, said circuit means including said refrigerant pressure responsive means and each of said overload responsive means, said circuit means controlling the energization of said motors in such manner that said refrigerant pressure responsive means or any



one of said overload responsive means can prevent the energization of any of said motors.

---

**2,389,074**
**TURBINE APPARATUS**
**John S. Newton, Drexel Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 27, 1943, Serial No. 503,953**
**4 Claims. (Cl. 253—59)**



1. In a turbine of the partial peripheral admission type, a group of full power nozzles, a plurality of groups of fractional power nozzles, each of the fractional power nozzles having an expansion ratio higher than each of the full power nozzles, full power valve or valves, a passage for conducting motive fluid from the full power valve or valves to the group of full power nozzles, fractional power valves, passages for conducting motive fluid from the latter valves to the fractional power nozzles, means movable in one direction first to open the full power valve or valves and then to open the fractional power valves in succession and movable in the opposite direction to close the valves in reverse order, a partition intercepting the full power passage and having an opening providing for flow of motive fluid through the passage from the full power valve or valves to the full power nozzles and a manually-operable valve cooperating with said opening and operative to interrupt the flow of motive fluid through the full power passage regardless of operation of said means and consequent opening and closing of said full and fractional power valves.



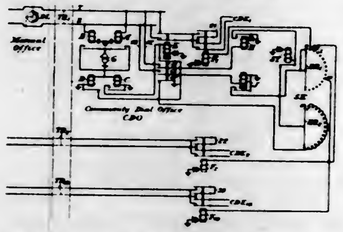
**2,389,075**
**SWITCH**
**John S. Nunes, New York, N. Y., assignor to Elizabeth Lefkowitz, doing business as Fulton Electric Mfg. Co., New York, N. Y.**
**Application December 17, 1941, Serial No. 423,285**
**8 Claims. (Cl. 200—64)**



1. An electric switch comprising a housing, a shaft rotatably mounted in the housing, manual means for effecting oscillation of the shaft, twe bridge members mounted upon the shaft, stationary contacts insulatedly supported in the housing and arranged to be engaged by the bridge members, one of said bridge members being fixed to and rotatable with the shaft and acting to close a pair of contacts upon actuation of the manual means, a spring for returning the manual means to normal position and thereby cause opening of said contacts, the other bridge member being rotatable relatively to the shaft, and means for effecting step-wise rotation of the second bridge member in the same direction upon repeated oscillation of the shaft.

---

**2,389,076**
**TESTING ARRANGEMENT FOR TRUNKS TO COMMUNITY DIAL OFFICES**
**Anthony T. Perry, Owensboro, Ky., assignor to American Telephone and Telegraph Company, a corporation of New York**
**Application May 12, 1943, Serial No. 486,644**
**8 Claims. (Cl. 179—175.2)**

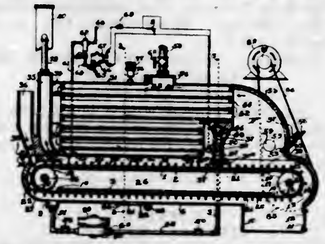


2. In a telephone system, the combination of a line, pulse-responsive apparatus, means responsive to alternating current transmitted over said line for longer than a predetermined time interval to connect said pulse-responsive apparatus to said line, and means responsive to the same alternating current transmitted over said line for less than a shorter predetermined time interval to disconnect said pulse-responsive apparatus from said line.

---

**2,389,077**
**SEWAGE SLUDGE, SCREENINGS, AND GARBAGE COMBUSTION APPARATUS**
**Adolphe C. Peterson, Minneapolis, and Clifford R. Raiter, St. Paul, Minn.**
**Application February 19, 1941, Serial No. 379,730**
**2 Claims. (Cl. 110—8)**

1. An apparatus for combustion of sewage sludge or other moisture containing matter, comprising; an elongated horizontal conveyor casing including side and bottom members, a combustion furnace at one end of said conveyor casing and communicating therewith, a conveyor disposed within said conveyor casing with its receiving end located adjacent the end of said conveyor casing remote from said furnace and with its discharge end located within said furnace, means for feeding matter to the receiving end of said conveyor, means for introducing combustion air to material upon said conveyor within said furnace, a steam generator unit located on top of said conveyor casing, the bottom of said steam generator and the side and bottom walls of said conveyor casing forming a matter feeding channel through which matter introduced by said feeding means is adapted to be moved from said means into said furnace, said steam generator being provided with a flue for gases of combustion communicating at one end with said combustion furnace and at its other end with



said channel, a feed controlling shoe extending transversely across the matter feeding channel adjacent the feeding means and on the side of said feeding means toward the combustion furnace, said shoe extending from the walls of said channel closely adjacent to the said conveyor to control the feed of matter from said feeding means into said channel, and to form with said conveyor a seal to prevent the escape of gases from said channel, a partitioning shoe extending across said matter feeding channel adjacent to said combustion furnace and extending from the walls of said channel to closely adjacent to said conveyor to prevent the passage of gases between said channel and said furnace, the communication of said flue with said channel being adjacent said partitioning shoe on the side of said partitioning shoe away from said furnace, and an outlet means for combustion gases in communication with said channel adjacent said feed controlling shoe.

---

**2,389,078**
**LINOLEUM COMPOSITION**
**Paul O. Powers, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**No Drawing. Application August 20, 1942, Serial No. 455,437**
**12 Claims. (Cl. 260—19)**

1. A linoleum composition which includes a linoleum cement containing an oxidized siccative oil and resin and about 1% to about 10% of a maturing accelerator for said cement, said accelerator comprising a reactive condensation product of an aldehyde and a compound selected from the group consisting of dihydroxy benzophenone and di (hydroxyaryl) methane, said condensation product being characterized by insolubility in raw drying oil and solubility in oxidized drying oil.

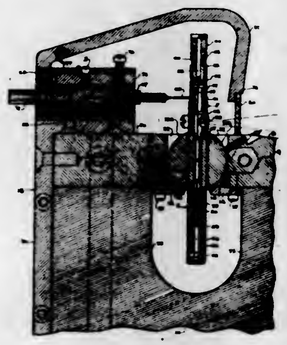
2,389,079
**LINOLEUM COMPOSITIONS**
Paul O. Powers, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
No Drawing. Application November 16, 1943, Serial No. 510,493
9 Claims. (Cl. 260—21)

1. A linoleum composition which includes a linoleum cement containing a siccative oil gel and about 1% to about 15% by weight of a maturing accelerator for said cement, said accelerator comprising a reactive condensation product of reactants consisting of an aldehyde and an aminotriazine containing a primary amino group.

2,389,080
**FLOTATION PROCESS FOR ORES CONTAINING SODIUM CHLORIDE**
Philip A. Ray, Denver, Colo., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 10, 1944, Serial No. 558,088
10 Claims. (Cl. 209—166)

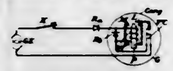
1. A flotation process which comprises treating a pulp or an ore containing sodium chloride with a water-soluble compound containing the cumate radical as a flotation agent.

2,389,081
**GALVANOMETER**
Lury B. Redmond, Fort Leavenworth, Kans., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 14, 1943, Serial No. 502,360
25 Claims. (Cl. 171—95)



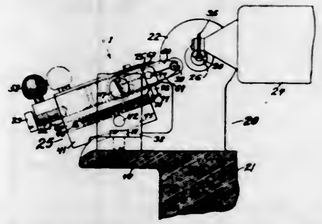
1. In a galvanometer, a non-magnetic casing having opposed portions of magnetic material forming a pair of inner pole pieces with a relatively narrow air gap therebetween, the exterior configuration of each of said inner pole pieces being arcuate, a magnet associated with said inner pole pieces, said magnet having pole pieces at least a part of which are arcuate in shape and complementary to said configuration of said inner pole pieces to form a substantially closed magnetic circuit and which together form pivoting means for said inner pole pieces and the casing of which they are a part.

2,389,082
**CODE CALLING SIGNAL**
Charles Stanley Rhoads, Albany, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 14, 1943, Serial No. 506,129
2 Claims. (Cl. 177—7)



1. In a signaling system, a circuit including a source of alternating current, a bell including an operating coil, a plunger so sluggish in movement as not to be able to oscillate with each cycle of alternating current, and a gong to be struck by said plunger when said coil is energized by a number of successive cycles of alternating current, means to close and open said circuit to produce operating pulses of such length as to include a plurality of alternating current cycles, a rectifier in series with said coil to apply a succession of one way half cycles to said coil during each pulse and suppress half cycles in the opposite direction, thereby eliminating a part of a cycle at the beginning or end of an operating pulse to lengthen the no-current interval between pulses, and a second rectifier connected in shunt with said coil and in series with said first rectifier but oppositely poled thereto so as to reduce sparking when the circuit is opened.

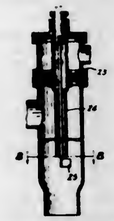
2,389,083
**DEVICE FOR FEEDING PINION BLANKS**
Bernhard Rosengren, Waterbury, Conn., assignor to The United States Time Corporation, Waterbury, Conn., a corporation of Connecticut
Application June 7, 1944, Serial No. 539,227
2 Claims. (Cl. 90—1)



1. In combination: pinion-cutting means having relatively-oppositely movable spindles adapted to grip the opposite ends of a pinion-blank and rotate it about its longitudinal axis; a feed-device support; a feed-device mounted on said support for movement to forward and retracted positions, and including a pair of gripping-jaws oppositely movable toward one another to grip a pinion-blank with its longitudinal axis extending transversely of the general plane of gripping movement of said gripping-jaws; gripping-jaw limit-means adapted to limit the movement of each gripping-jaw toward the other to cause the longitudinal axis of the pinion-blank to occupy a predetermined location when gripped by said gripping-jaws and when said feed-device is in retracted position; and pinion-blank limit-means located in a position to be engaged by the end of a pinion-blank when it is pushed endwise between said gripping-jaws when said feed-device is in retracted position; said feed-device when moved to said forward position causing the pinion-blank to move away from said pinion-blank limit-means and causing the longitudinal axis of the pinion-blank to substantially coincide with said axis of rotation and permitting said spindles to grip the opposite ends of the pinion-blank; and said gripping-jaws being adapted to move away from one another away from their gripping positions.



2,389,084
**APPARATUS FOR MAKING FLAVORED CONFECTIONS**
Almond C. Routh, Sandusky, Ohio
Application September 8, 1943, Serial No. 501,725
12 Claims. (Cl. 107—1)



1. A mechanism for preparing an ice cream or like material composed of a major portion of said material and a minor portion of a differently appearing similar substance, comprising a relatively large extrusion tube for said material through which it may be forced under pressure, and a substantially smaller tube for conveying said substance concurrently forced under pressure therethrough, said smaller tube telescopically disposed within the larger tube and terminating, a substantial distance above the discharge port thereof, in at least one discharge port, said small tube port directed substantially laterally of the direction of travel of said material in the large tube and thereby continuously forcing at least one minor stream of said substance into the flowing body of the material surrounding it and means to rotate said small tube to continuously vary the direction of discharge of said substance into the encompassing body of said material.

2,389,085
**ANIMATED WALL PICTURE**
Forrest C. Sagendorf, Jackson Heights, N. Y.
Application January 16, 1945, Serial No. 572,986
2 Claims. (Cl. 46—36)



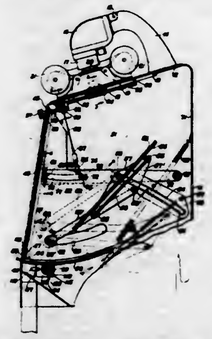
1. A frame, an action picture in said frame having two elements mounted for reciprocating movement, the first of said elements comprising a pivotally mounted member, the second of said elements comprising a slidably mounted member, a rotatably mounted cam engaging said pivoted member against the force of gravity exerted upon said pivoted member and causing it to engage the slidable member against the force of gravity exerted upon said slidable member, a drum on said cam and an endless string wound several turns around said drum whereby, by pulling the string, rotary motion may be imparted to the cam, thereby imparting reciprocating motion to the pivoted member as it is successively engaged and disengaged by said cam, and also imparting corresponding reciprocating motion to the slidable member as it in turn is successively engaged and disengaged by the pivoted member, the reciprocating motion of said pivoted member and hence of said slidable member, being uniform or staccato depending on how tightly the string is wound around the drum.

2,389,086
**ELECTRIC DETONATOR**
Joseph Stuart, II, Wilmington, Del.
Application January 30, 1942, Serial No. 428,801
6 Claims. (Cl. 102—28)



1. An electric firing device which comprises a charged shell; an ignition assembly comprising a plug of hard dielectric material inserted into the shell, said plug being of sufficient hardness and size to expand said shell and thereby provide a waterproof joint between the shell and the plug; and a bulge in that portion of the shell in contact with the plug, said bulge being formed by insertion of the plug into the shell.

2,389,087
**AUTOMATIC ADJUSTMENT OF LENS DIAPHRAGMS**
Alvin E. Schubert, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 6, 1941, Serial No. 421,943
12 Claims. (Cl. 88—24)



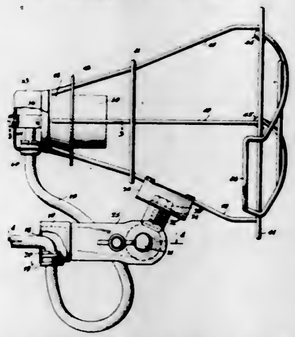
1. In a photographic projection apparatus, the combination with a projection lens, an image receiving member movable with respect to said lens to vary the image magnification, a diaphragm member having an opening through which the image beam is projected onto said image receiving

member, and a mount rotatably supporting said diaphragm member, of a connecting means actuated by movement of said image receiving member and rotating said diaphragm member to vary the opening therein in direct proportion to the change in image magnification caused by movement of said image receiving member.

2,389,088
**PRODUCTION OF CHLORINATED CARBOCYCLIC CARBOXYLIC ACIDS**
Frederick C. Schubart, Cleveland, Ohio, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 22, 1942, Serial No. 455,800
2 Claims. (Cl. 260—515)

1. A method of producing chlorinated aromatic carboxylic acids which comprises introducing chlorine into a non-alkaline water solution of a neutral alkali metal salt of an aromatic carboxylic acid, adding a solid alkali metal chloride, and filtering off the chlorinated product.

2,389,089
**COMBINATION WORK LAMP AND BULB GUARD**
Nathan Rodney Schwartz, New York, N. Y.
Application January 10, 1944, Serial No. 517,747
3 Claims. (Cl. 240—54)



1. The combination of a work lamp and a bulb guard comprising a base, a foot member at one end thereof, a pair of spaced apart arms at the other end of said base, means passing through said arms increasing or decreasing their relative distance, a swivel member between said arms, a shank integral therewith, said shank extending upwardly beyond said arms, a central vertical opening through said shank, a bracket, said bracket having two ends and a curved central portion, a vertical opening through said curved portion in the center thereof, means passing through said two openings removably engaging said bracket and said shank, a bulb guard comprising a plurality of longitudinal wires, said wires spaced apart, two rings, said rings embracing said longitudinal wires, one of said rings of larger diameter than the other of said rings, the larger of said rings embracing the front ends of said longitudinal wires, the smaller of said rings embracing said longitudinal wires substantially midway their length, a door for said lamp guard, said door comprising a unitary strand of wire twisted to form two parallel sides and a front portion, the ends of said parallel sides bent about the larger of said two rings forming a hinge, the central portion of said strand twisted to form a finger grip, a cup-shaped member, the ends of said longitudinal wires secured thereto, a socket seated in said cup-shaped member, and a closure means for said cup-shaped member.

2,389,090
**LUBRICATING AND CORROSION-PREVENTING COMPOSITION**
James E. Shields, Niagara Falls, N. Y., and Ulric B. Bray, Palos Verdes Estates, Calif., assignors to Alox Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 14, 1943, Serial No. 483,056
2 Claims. (Cl. 252—40.7)

1. A preservative lubricant composition substantially consisting of a highly refined hydrocarbon oil derived from Venezuelan or Pennsylvanian crude oil and having a pour point at least as low as —40° F. containing dissolved therein from about 3.0% to about 4.5% by weight of calcium soaps of acids derived from the oxidation of a petroleum lubricating oil substantially free from crystalline bodies, asphalts and unsaturated hydrocarbons, and from about 0.5% to about 1.0% by weight of lower alkyl esters of said acids, the resulting solution also containing a small amount of an oxidation-depressing thio-ether of an alcohol, said preservative lubricant composition having a pour point at least 20° F. below that of the hydrocarbon oil component of the composition.

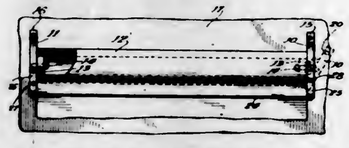
2,389,091
**LOOM**
Howard L. Shuttleworth, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application March 28, 1944, Serial No. 528,390
4 Claims. (Cl. 139—55)



1. In a loom, the combination of a pair of heddle frames adapted to control binder warps, means for raising and lowering the frames alternately and in opposite order to cause binder warps controlled thereby to lie in upper and lower parts of a shed, a plurality of wires extending warpwise through the heddle frames and free thereof, means at one side of the heddle frames for anchoring the wires at one end, heddle eyes for raising and lowering the wires to cause them to lie in upper and lower parts of the shed, pattern-controlled means for operating the heddle eyes selectively, a needle for inserting weft shots in the sheds successively formed, a pair of supplies of weft yarn, and means for selectively supplying yarn from the respective supplies to the needle for insertion in the fabric.

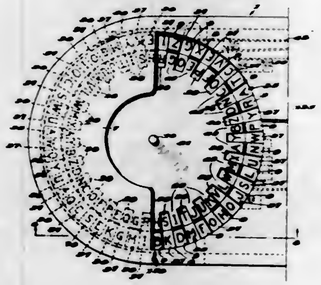


2,389,092
**DISPENSING RACK**
Charles Strauss, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application May 6, 1944, Serial No. 534,407
5 Claims. (Cl. 242—55.5)



3. A dispensing rack and holder for rolled sheet material comprising a pair of spaced roll supporting brackets, base support means for said brackets and cut-off bar means secured to and extending between said brackets, one of said brackets being in fixed engagement with its base support and the other being pivotally engaged adjacent one of its lateral edges to and between its supporting base and said cut-off bar means.

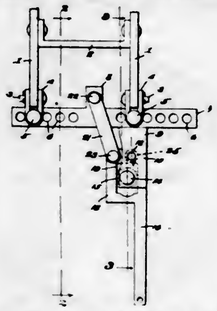
2,389,093
**CRYPTOGRAPHIC MACHINE**
Beue Tann, Washington, D. C.
Application May 5, 1943, Serial No. 485,781
23 Claims. (Cl. 35—3)



1. A cryptographic machine including a casing having a cover provided with an opening, a series of stationary spaced tabs extending into said opening, each of said tabs having a letter on its upper surface, a first member below said cover having a first and a second series of letters on its upper surface with alternate letters of said first series visible between said tabs, a second member above said first member and having a series of spaced tabs each having a letter on its upper surface with the tabs of said second member overlying alternate letters of the second series on said first member, and means for moving said first and second members with respect to each other and with respect to the stationary tabs.

2,389,094
**DRAFT EQUALIZER**
Vencel J. Tichota, Dodge, Nebr.
Application June 29, 1944, Serial No. 542,697
4 Claims. (Cl. 280—33.44)

1. In a draft equalizer, a cross member, a forwardly-extended draft tongue, mechanism for mounting the tongue on the cross member for lateral swinging movement and for movement longitudinally of the tongue, a link, a first pivot element connecting the rear end of the link with the intermediate portion of the cross member, and a second pivot element connecting the forward end of the link with the rear portion of the tongue, said mechanism constituting a fulcrum for the tongue and being located in advance of the second pivot element, said mechanism comprising an anti-friction device carried by the cross member, the tongue having an elongated longitudinal opening wherein the anti-friction device is received.



2,389,095
**MEANS FOR VARYING THE VELOCITY OF MOVEMENT OF THE BREECH BLOCK IN AUTOMATIC GUNS**
Josef Veselý, Winchmore Hill, London, England
Original application March 4, 1942, Serial No. 433,322. Divided and this application July 17, 1943, Serial No. 495,099. In Great Britain June 10, 1941
7 Claims. (Cl. 42—3)

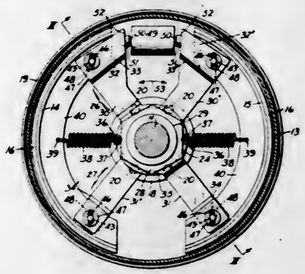


3. A breech block assembly adapted to be substituted for the conventional breech block of an automatic fire arm having a recoil spring, said assembly comprising a reciprocable breech block, a member carried by and slidable axially with respect to said breech block, cooperating means on said breech block and slidable member for selectively limiting the forward displacement of said member relative to said breech block to a greater or a smaller distance, an abutment guided for cooperation with said recoil spring on the one hand and with the rear end of said breech block on the other hand, and auxiliary spring means between said slidable member and said abutment.

2,389,096
**BRAKE MECHANISM**
Howard Walker, Philadelphia, Pa.
Application March 10, 1945, Serial No. 581,978
4 Claims. (Cl. 188—78)

1. In brake mechanism for vehicle wheels the combination with a rotary brake-drum, of a pair of brake-shoes each having an inwardly-directed web; opposed inter-engaging actuator-levers, pivotally supported by a common bearing sleeve on the wheel-axle with capacity for relative oscillation, each said lever comprising mating sheet metal elements having the respective ends ex-

panded and apertured to define bearing-forks; pivot means in each actuator-lever bearing-fork; reversely inclined cam-slots in the brake-shoe respective inwardly-directed webs, through which the pivot means aforesaid pass; means whereby the actuator-levers are normally influenced to



relatively collapsed position; and means for expanding said levers with joint and even inward movement of the pivot means in the inclined cam-slots, whereby the respective brake-shoes are directly advanced outwards into uniform circumferential contact with the brake-drum.

---

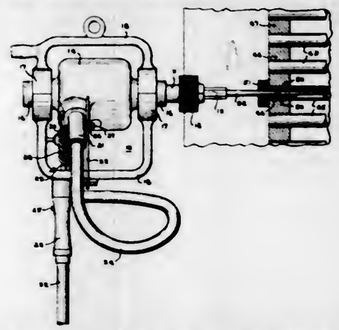
**2,389,097**
**PROCESS OF PREPARING PURIFIED CALCIUM PANTOTHENATE**
**Kurt Warnat, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**
**No Drawing. Application August 26, 1942, Serial No. 456,272. In Switzerland September 1, 1941**
**1 Claim. (Cl. 260—534)**

Process for the manufacture of a purified non-hygroscopic calcium salt of d-pantothenic acid comprising liberating the pantothenic acid from an alcoholic solution of sodium d-pantothenate by addition of an approximately equivalent amount of oxalic acid, removing the insoluble sodium oxalate by filtration, diluting the filtered alcoholic solution of pantothenic acid with water, converting the pantothenic acid into calcium pantothenate by the addition of calcium carbonate, whereby any excess of oxalic acid is removed from solution as insoluble calcium oxalate, filtering off the calcium oxalate and excess calcium carbonate, and evaporating the solution in vacuo.

---

**2,389,098**
**METHOD OF EXPANDING TUBES IN TUBE SEATS**
**Philip J. Welch, Brookline, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 21, 1942, Serial No. 439,946**
**1 Claim. (Cl. 153—82)**

In the expanding of terminal portions of tubes in tube seats provided in supporting wall structure, the process of obtaining uniform predetermined optimum sealing engagement of the tubes with their seats regardless of variations in tube and tube seat dimensions resulting from manufacturing tolerances, the process comprising expanding the tube terminal portions successively by a rolling action, visibly indicating the rolling torque during the rolling operation, continuing the rolling action until the indicated torque reaches a predetermined optimum value for the tube wall sizes and materials involved, and terminating the rolling action when said predetermined optimum value of torque is indicated.



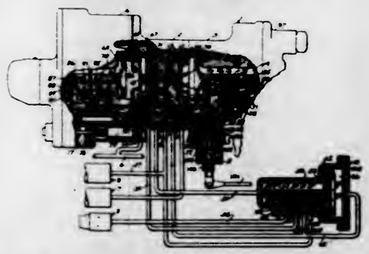
---

**2,389,099**
**PRODUCTION OF DIAMINO SUCCINIC ACID**
**Wilhelm Wenner, Upper Montclair, N. J., assignor to Hoffmann-La Roche, Inc., Roche Park, Nutley, N. J., a corporation of New Jersey**
**No Drawing. Application November 27, 1944, Serial No. 565,405**
**5 Claims. (Cl. 260—534)**

1. Process for making meso-$\alpha,\beta$-diamino succinic acid which comprises hydrogenating $\alpha,\beta$-bis-benzylamino succinic acid in a solvent in the presence of at least two equivalents of mineral acid and of a noble metal catalyst.

---

**2,389,100**
**FLUID PRESSURE BRAKE**
**Ralph T. Whitney, Irwin, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application September 14, 1943, Serial No. 502,277**
**22 Claims. (Cl. 303—68)**

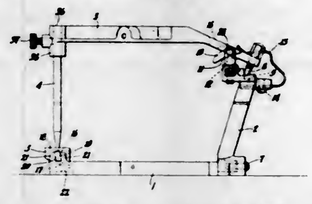


1. The combination with a brake controlling valve device of the type operative upon a gradual or service reduction in brake pipe pressure for supplying fluid under pressure from a normally charged auxiliary reservoir to a brake cylinder to effect a service application of the brakes and operative upon a sudden or emergency reduction in brake pipe pressure for supplying fluid under pressure from the auxiliary reservoir and a supplementary reservoir to the brake cylinder to effect an emergency application of the brakes, of a valve normally establishing communication through which fluid under pressure supplied by said brake controlling valve device flows to the brake cylinder and operative to a position to close said communication and to open a communication from said brake cylinder to the atmosphere, a movable abutment for actuating said valve, said abutment being subject to the pressure of fluid from the supplementary reservoir and the opposing pressure of fluid supplied by the brake controlling valve device and being operative upon a reduction in the pressure of fluid acting on said movable abutment in opposition to the pressure of fluid supplied by the brake controlling valve device for actuating said valve to the position for establishing the communication from the brake cylinder to the atmosphere, means for restricting the flow of fluid under pressure from said supplementary reservoir to said abutment, and means operative to effect a reduction in the pressure of fluid acting on said abutment.



---

**2,389,101**
**DENTURE ARTICULATOR**
**Winthrop C. Whittemore, Port Washington, N. Y., assignor to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York**
**Application April 7, 1945, Serial No. 587,186**
**9 Claims. (Cl. 32—32)**



1. In an articulator, an incisal table member comprising a block having incisal table surfaces on opposite sides thereof arranged at an acute angle to one another, a lower bow, and cooperating engaging elements on the block and lower bow respectively, arranged for mounting the block on the lower bow in a plurality of predetermined fixed positions selectively to place the opposed incisal table surfaces at various angles to the horizontal.

---

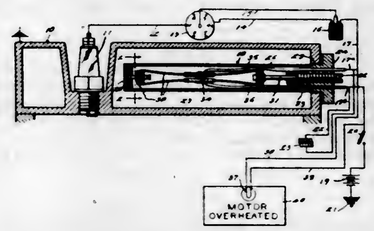
**2,389,102**
**RESPIRATORY MASK**
**Benjamin F. Williams, Salem, Oreg.**
**Application July 14, 1943, Serial No. 494,669**
**1 Claim. (Cl. 128—146)**



A respiratory mask comprising a resilient one piece wire frame, the opposite ends of said frame defining a pair of bows, the intermediate portion of said frame being of a U-shape depending substantially at right angles from said bows, the upper ends of the legs of said U-shaped frame portion being joined to said bows by inturned frame portions, a mask unit of relatively flexible material comprising a plurality of layers secured together around the opposite sides and bottom and for a slight distance inwardly adjacent the opposite upper corners, said U-shaped frame portion being insertable between said layers through the open side thereof and tensioned so as to expand into relatively tightly fitting engagement with the inner periphery of the pocket between said layers, said inturned frame portions fitting under said opposite upper corners of said pocket for retaining said mask unit firmly in place.

---

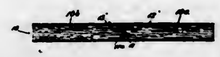
**2,389,103**
**MOTOR IGNITION CONTROL**
**Fremont E. Wood, Gabbs Valley, Nev.**
**Application May 27, 1943, Serial No. 488,731**
**1 Claim. (Cl. 177—311)**




In the ignition circuit of an internal combustion engine including an ignition coil, a thermostatic means subject to the temperature of the coolant of the engine, a switch in said circuit normally closed below a predetermined temperature, said switch being connected to said thermostatic means for opening through expansion of the thermostatic means, and signal means shunted in said circuit for actuation through opening of said switch for the dual purpose of signaling and imposing resistance to render the ignition coil of the circuit ineffective at and above said predetermined temperature.

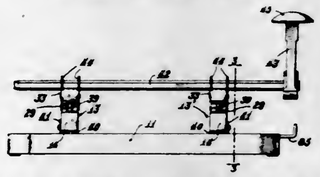
---

**2,389,104**
**MULTIPLE CIGARETTE OR THE LIKE**
**Henry R. Bauer and William A. Bogg, Fairfield, Conn., said Bogg assignor to said Bauer**
**Application July 25, 1941, Serial No. 403,956**
**12 Claims. (Cl. 131—8)**



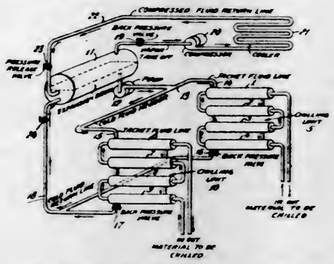
1. A multiple cigarette or the like comprising a plurality of physically separate units of tobacco of a relatively short length and having cleanly severed packed ends disposed in end-to-end relation, a separator member of combustible material between the ends, and a wrapper surrounding the tobacco and member and separable about the adjacent ends of the units of tobacco whereby the cigarette may be divided into a plurality of short cigarettes, said member having an edge adapted to cooperate in severing the wrapper during separation of the units.

2,389,105
MULTIPLE PERFORATOR
Emil Kern, Long Island City, N. Y., assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Application May 12, 1944, Serial No. 535,337
22 Claims. (Cl. 164—91)



1. In a perforating device, a standard having at least one perforated ear, a punch supported in said standard, a link pivotally connecting said punch and said ear and having projecting wings having openings, and an operating element including a shaft extended through said openings.

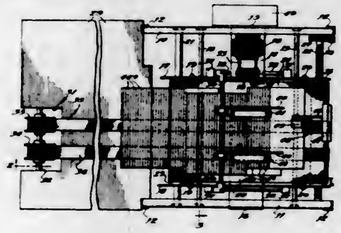
2,389,106
COOLING SYSTEM
Courtenay D. Marshall and Carroll O. Buttrill, Beaumont, Tex., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 3, 1941, Serial No. 413,428
7 Claims. (Cl. 62—170)



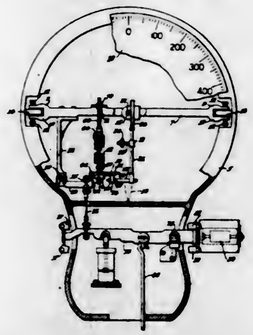
1. In the operation of a refrigeration system wherein liquid refrigerant is self-cooled by partial evaporation and the remaining liquid is passed in heat exchange relationship with material to be cooled the method which comprises conducting partial evaporation in a vessel isolated from the material to be cooled, in which vessel a pool of cold liquid refrigerant is maintained and from which vessel vapors are withdrawn, to be compressed, liquefied, returned, and allowed to evaporate, and circulating cold liquid refrigerant from said pool to the material to be cooled and back to said pool while maintaining upon the liquid so circulated a pressure above that existing in the pool and sufficient to prevent substantial vaporization of the liquid refrigerant while it is being circulated from said pool to the material to be cooled and back to said pool.

2,389,107
COUNTING DEVICE
Ernest Granville Rice, Chicago, Ill., assignor to Redson-Rice, Chicago, Ill., a copartnership
Application November 3, 1944, Serial No. 561,807
17 Claims. (Cl. 93—93)

1. A counting mechanism comprising in combination an endless belt, means for supporting the belt and moving it forwardly, means for depositing a series of articles to be counted on the belt in longitudinal alignment thereon, and means for shifting the belt laterally at predetermined intervals for causing the line of articles on the belt to be offset laterally at spaced points for indicating division points between successive bunches of the articles.



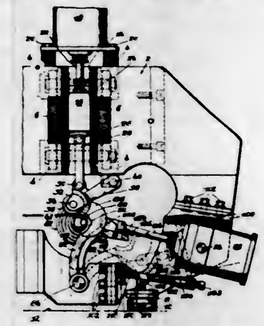
2,389,108
SCALE
Matthew Thorsson, Rutland, Vt., assignor to The Howe Scale Company, Rutland, Vt., a corporation of Vermont
Application September 23, 1942, Serial No. 459,456
1 Claim. (Cl. 265—68)



In a scale of the character described, a frame, an arbor rotatably mounted on the frame, a pinion carried by the arbor, a rack arm, a rack connected thereto and meshing with the pinion, said rack arm comprising a bridge portion and end portions, one of said end portions being pivotally mounted at one end on the frame and at its other end joining with an upwardly extending arm portion joined to one end of said bridge portion, the other end of said bridge portion being provided with securing means for an adjusting bolt and a downwardly extending portion, a saddle slidable along said bridge portion, means to secure one end of said saddle to the rack arm, an adjusting bolt connected to the other end of the saddle and adapted to cooperate with said securing means to position said saddle, the other end portion comprising a threaded portion received in said downwardly extending portion, and lock nuts on said threaded portion to adjustably secure said other end portion and the downwardly extending portion together.



2,389,109
SPRING WINDING MACHINE
Arthur A. Weisberger and Edward G. Glick, Hammond, Ind., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application November 20, 1942, Serial No. 466,268
31 Claims. (Cl. 153—64)



1. In a volute coil winding machine, a bed, a carriage guidably engaged therewith, means affording a movable support for said carriage, a rotatable chuck, a mandrel engaged therewith, key means on said chuck in telescopic engagement with said mandrel and comprising projecting means, a hammer pivotally mounted in said carriage and adapted to set an associated bar of spring stock on said mandrel and on said projecting means, and roller means on said carriage for coiling said bar on said mandrel, said mandrel being retractable from engagement with said chuck and key means, whereby the coiled bar is positively stripped from said mandrel by said projecting means.

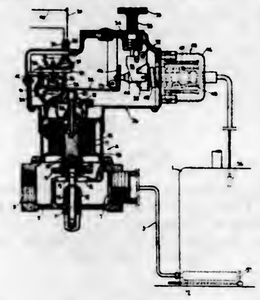
2,389,110
HYDROCARBON OIL COMPOSITION
Elmer W. Cook, New York, N. Y., and William D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 30, 1942, Serial No. 463,944
4 Claims. (Cl. 252—34)

1. A lubricating oil composition for the lubrication of steam turbines comprising a major proportion of a hydrocarbon lubricating oil and from 0.02 to 5.0% of a water-insoluble mixture of approximately equal parts by weight of a primary alkyl amine having from 16 to 18 carbon atoms and an oil-soluble alkyl phenol.

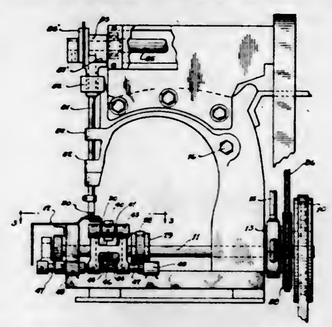
2,389,111
CONTROL MEANS
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application February 17, 1943, Serial No. 476,134
20 Claims. (Cl. 236—1)

1. A control device comprising a valve urged toward closed position, electrically operable means to move said valve toward open position, a switch controlling the circuit of said means, means operable to move said valve toward closed position and means operable on said switch by said last-named means and having lost motion connection to said valve so that said switch is opened prior to movement of said valve.

7. A control device comprising a solenoid valve having an armature, a thrust member reciprocal longitudinally of and engageable with said armature, a lever engaging said thrust member, a moveable switch member controlling the circuit of said solenoid valve and operable by said lever, a fixed switch member engageable by said moveable switch member, a spring acting on said thrust member and holding said thrust member against said lever and said switch members in engagement, a magnet cooperable with said lever and opposing separation of said switch members, and a thermostat operable to move said lever.



2,389,112
SEWING MACHINE
Lowell R. Newton, Heinrich E. Haase, and Charles T. Walter, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 25, 1942, Serial No. 436,116
5 Claims. (Cl. 112—197)



1. A sewing machine having a reciprocating needle for carrying a thread through the material, a material supporting table having an aperture therein, said table having a frictional bearing on the upper surface thereof, means positioned on one side of said table to reciprocate the needle, a presser foot reciprocable toward the table into engagement with the frictional bearing, means to drive the presser foot in timed relation to the movement of the needle, a looper movable in the zone of said aperture and disposed on the side opposite to the said one side of the work support to carry a looper thread into the needle thread loop formed when the needle passes through the material, means to drive the looper into close proximity to the needle between the needle thread and the needle to maintain

the needle thread loop upon retraction of the needle, a hook movable on said opposite side to engage the threads during stitch formation, means to drive the hook to draw the engaged threads away from the looper to spread the threads to positively form an opening through which the needle may pass on the next cycle of operations, means to feed the material continuously over the work table, said presser foot being driven against the frictional bearing to hold a portion of the material stationary while the needle passes through the work to cooperate with said looper and hook during the formation of the stitch.

---

**2,389,113**
**SCALE MECHANISM**
**Howard G. Reichel, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware**
**Application September 23, 1942, Serial No. 459,345**
**3 Claims. (Cl. 249—2)**



1. The combination of a weighing mechanism having indicating means associated therewith and means to measure a predetermined percentage of the weight of any object placed on the weighing mechanism, said means to measure including a core of magnetic material, a coil cooperating with said core, said core being relatively movable with respect to said coil, and one of said relatively movable elements being operatively connected to said mechanism, said core being relatively movable from a central position with respect to said coil to positions progressively displaced from said central position as the weight of the object being weighed is increased, means for selectively creating a current of electricity through said coil to establish a magnetic field for attracting the core, said coil being dimensioned so that the amount of the attractive force is directly dependent on the displacement produced between said core and said coil, said attractive force being transmitted to the weighing mechanism through the fixed connection between said one element and said mechanism.

---

**2,389,114**
**WELT INSOLE AND SEWING RIB FOR ATTACHMENT THERETO**
**Wallace C. Wright, Brookfield, N. H., assignor to Wright-Batcheider Corporation, Boston, Mass., a corporation of Massachusetts**
**Original application June 21, 1941, Serial No. 399,049. Divided and this application May 3, 1944, Serial No. 533,818**
**4 Claims. (Cl. 36—22)**



1. A welt insole of the kind described, comprising an insole blank of suitable thickness, contour, and material, together with a sewing rib of stitch-retaining, permanently pliable, synthetic plastic material, and a strip of textile material interposed between the sewing rib and the insole blank, said textile material being inherently united with the synthetic plastic material, and adhesively united with the insole blank along the marginal

# DESIGNS

NOVEMBER 13, 1945

**142,807**
**DESIGN FOR A DRESS**
**Sylvia Aber, New York, N. Y.**
**Application August 14, 1945, Serial No. 121,419**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

---

**142,808**
**DESIGN FOR A DRESS**
**Sylvia Aber, New York, N. Y.**
**Application August 14, 1945, Serial No. 121,420**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

**142,809**
**DESIGN FOR A CIRCULAR SAW OR SIMILAR ARTICLE**
**Raymond H. Andresen, Chicago, Ill., assignor to Peerless Tool and Engineering Co., Chicago, Ill., a corporation of Illinois**
**Application June 14, 1945, Serial No. 120,088**
**Term of patent 14 years**
**(Cl. D93—3)**



The ornamental design for a circular saw or similar article, as shown.

---

**142,810**
**DESIGN FOR A BAND SAW OR SIMILAR ARTICLE**
**Raymond H. Andresen, Chicago, Ill., assignor to Peerless Tool & Engineering Co., a corporation of Illinois**
**Application June 14, 1945, Serial No. 120,089**
**Term of patent 14 years**
**(Cl. D93—3)**



The ornamental design for a band saw or similar article, as shown.

142,811
**DESIGN FOR A JOINTER OR SIMILAR ARTICLE**
Raymond H. Andresen, Chicago, Ill., assignor to Peerless Tool & Engineering Co., Chicago, Ill., a corporation of Illinois
Application June 14, 1945, Serial No. 120,090
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a jointer or similar article, as shown.

---

142,812
**DESIGN FOR A WOOD TURNING LATHE OR SIMILAR ARTICLE**
Raymond H. Andresen, Chicago, Ill., assignor to Peerless Tool & Engineering Co., Chicago, Ill., a corporation of Illinois
Application June 14, 1945, Serial No. 120,091
Term of patent 14 years
(Cl. D54—6)



The ornamental design for a wood turning lathe or similar article, as shown.

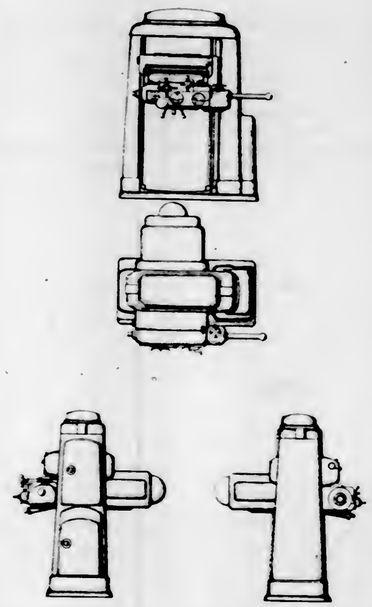
142,813
**DESIGN FOR A CLOTHESPIN**
Alton M. Andrews, Modesto, Calif.
Application July 30, 1945, Serial No. 121,080
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin, as shown.

---

142,814
**DESIGN FOR A MACHINE TOOL UNIT**
Walter D. Archea and Norman H. Doane, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application November 26, 1943, Serial No. 111,792
Term of patent 14 years
(Cl. D54—14)



The ornamental design for a machine tool unit, as shown.



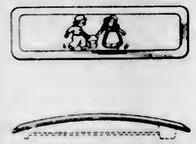
142,815
**DESIGN FOR A DOG BLANKET**
Anne Ardmore, North Hollywood, Calif.
Application July 24, 1945, Serial No. 120,937
Term of patent 7 years
(Cl. D38—10)



The ornamental design for a dog blanket, as shown.

---

142,816
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application July 10, 1945, Serial No. 120,601
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

---

142,817
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application July 10, 1945, Serial No. 120,602
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

142,818
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application July 10, 1945, Serial No. 120,603
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

---

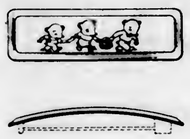
142,819
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application July 10, 1945, Serial No. 120,604
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

---

142,820
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application July 10, 1945, Serial No. 120,605
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown and described.

**142,821**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,606**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.

---

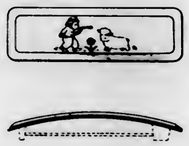
**142,822**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,607**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.

---

**142,823**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,608**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.

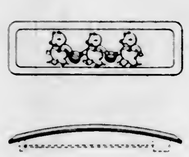
**142,824**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,609**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.

---

**142,825**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,610**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.

---

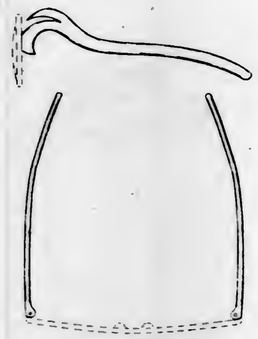
**142,826**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island**
**Application July 10, 1945, Serial No. 120,611**
**Term of patent 14 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown and described.



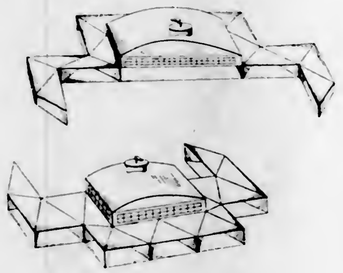
**142,827**
**DESIGN FOR A SPECTACLE FRAME**
**Altina Barrett and Eric Barrett, Hollywood, Calif.**
**Application February 26, 1945, Serial No. 118,137**
**Term of patent 14 years**
**(Cl. D57—1)**



The ornamental design for a spectacle frame, substantially as shown and described.

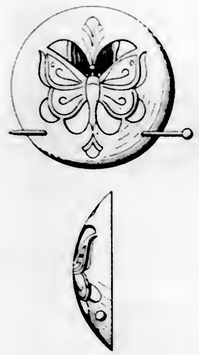
---

**142,828**
**DESIGN FOR AN AIRPLANE HANGAR**
**Arthur E. Bausenbach, Buffalo, N. Y.**
**Application February 22, 1945, Serial No. 118,082**
**Term of patent 7 years**
**(Cl. D13—1)**



The ornamental design for an airplane hangar, substantially as shown.

**142,829**
**DESIGN FOR A HAT**
**Siegfried Behr, Flushing, N. Y.**
**Application July 14, 1945, Serial No. 120,708**
**Term of patent 14 years**
**(Cl. D3—13)**



The ornamental design for a hat, as shown.

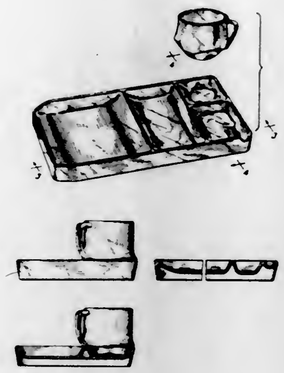
---

**142,830**
**DESIGN FOR A GAME BOARD**
**Charles Raymond Billington, Memphis, Tenn.**
**Application June 27, 1945, Serial No. 120,362**
**Term of patent 14 years**
**(Cl. D34—5)**



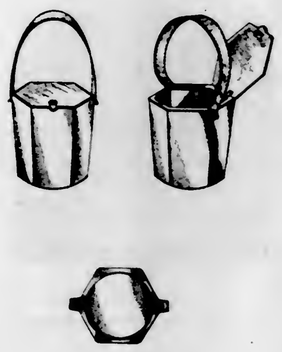
The ornamental design for a game board, as shown.

142,831
**DESIGN FOR A COMBINED FOOD TRAY AND CUP**
Albert O. Buxbaum, Los Angeles, Calif.
Application May 26, 1945, Serial No. 119,745
Term of patent 14 years
(Cl. D44—10)



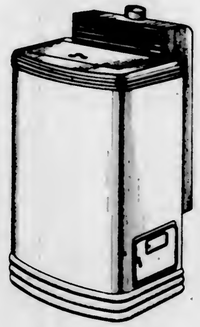
The ornamental design for a combined food tray and cup, substantially as shown.

142,832
**DESIGN FOR A HANDBAG**
Bernard Calem, New York, N. Y.
Application February 15, 1945, Serial No. 117,966
Term of patent 3½ years
(Cl. D87—3)



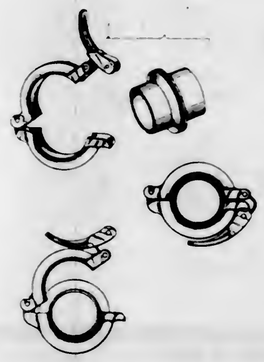
The ornamental design for a handbag, substantially as shown.

142,833
**DESIGN FOR A COMBINATION WOOD AND COAL HEATER**
Robert G. Calton, Nashville, Tenn., assignor to Tennessee Enamel Manufacturing Company, Nashville, Tenn., a corporation of Tennessee
Application November 13, 1944, Serial No. 116,303
Term of patent 14 years
(Cl. D81—19)



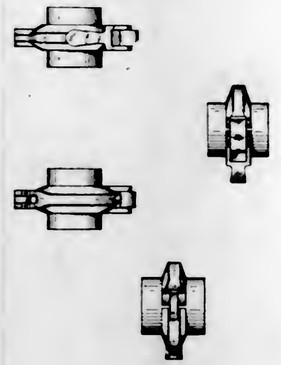
The ornamental design for a combination wood and coal heater, as shown and described.

142,834
**DESIGN FOR A COMBINATION PIPE COUPLING AND CLAMPING DEVICE**
Willard S. Campbell, Chicago, Ill.
Application February 28, 1945, Serial No. 118,183
Term of patent 14 years
(Cl. D91—3)



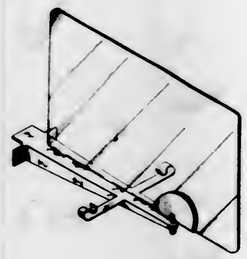


142,834—Continued



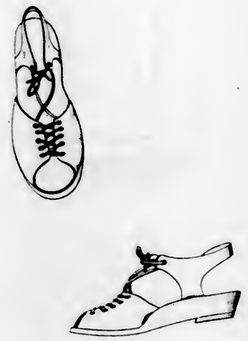
The ornamental design for a combination pipe coupling and clamping device, substantially as shown.

142,835
**DESIGN FOR AN AIR DEFLECTOR**
Ross M. Clayton, Asbury Park, N. J., assignor to Air-Col Corporation, a corporation of New Jersey
Application July 8, 1944, Serial No. 114,437
Term of patent 14 years
(Cl. D62—4)



The ornamental design for an air deflector, as shown.

142,836
**DESIGN FOR A WOMAN'S SHOE OR THE LIKE**
George Codish, New York, N. Y., assignor to Craft Sole Sales Company, Paterson, N. J., a partnership
Application July 17, 1945, Serial No. 120,760
Term of patent 3½ years
(Cl. D7—7)



The ornamental design for a woman's shoe or the like, as shown.

142,837
**DESIGN FOR A RANGE**
John D. Coleman, Detroit, Mich., assignor to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application June 4, 1945, Serial No. 119,885
Term of patent 14 years
(Cl. D81—4)

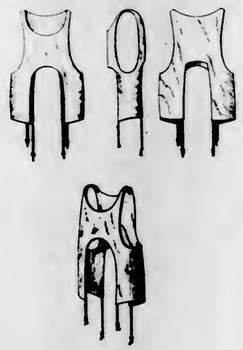


142,837—Continued



The ornamental design for a range, substantially as shown and described.

142,838
**DESIGN FOR A MATERNITY GARTER SUPPORT**
Alma K. Collins and Lois R. Hamilton, Los Angeles, Calif.
Application March 19, 1945, Serial No. 118,582
Term of patent 14 years
(Cl. D3—17)



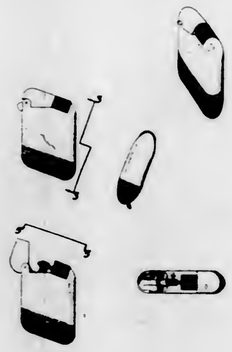
The ornamental design for a maternity garter support, substantially as shown.

142,839
**DESIGN FOR A DRESS**
Elizabeth Cutler, New York, N. Y.
Application August 21, 1945, Serial No. 121,529
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

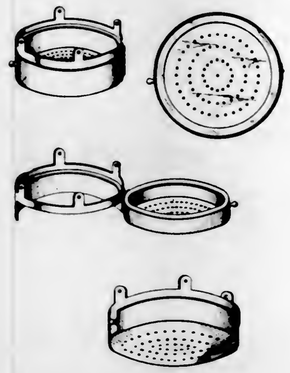
142,840
**DESIGN FOR A LIGHTER FOR CIGARETTES OR THE LIKE**
Leonard A. Cutrow, Los Angeles, Calif.
Application June 5, 1945, Serial No. 119,908
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a lighter for cigarettes or the like, substantially as shown.



142,841
**DESIGN FOR A SHOWER HEAD ATTACHMENT FOR BATH SALTS**
Otto d'Algodt, Basking Ridge, N. J.
Application January 12, 1945, Serial No. 117,386
Term of patent 14 years
(Cl. D91—1)



The ornamental design for a shower head attachment for bath salts, as shown.

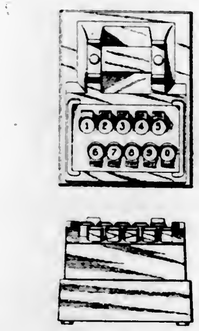
142,842
**DESIGN FOR A CIGARETTE HOLDER**
Richard E. Daze, Mount Vernon, N. Y.
Application February 10, 1945, Serial No. 117,865
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a cigarette holder, as shown.



142,843
**DESIGN FOR A TELEPHONE DESK STAND**
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 26, 1944, Serial No. 117,085
Term of patent 14 years
(Cl. D26—14)



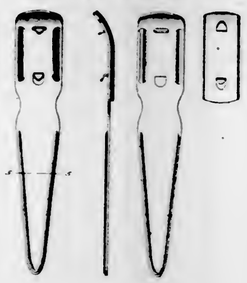
The ornamental design for a telephone desk stand, as shown.

142,844
**DESIGN FOR A CONTAINER CAP**
Philip A. Derham, Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application June 16, 1945, Serial No. 120,141
Term of patent 14 years
(Cl. D58—36)



The ornamental design for a container cap, substantially as shown.

142,845
**DESIGN FOR A RAZOR BLADE HOLDER**
Carl Dreadner, Rochester, N. Y.
Application June 22, 1945, Serial No. 120,266
Term of patent 7 years
(Cl. D22—3)



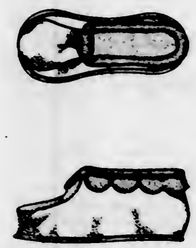
The ornamental design for a razor blade holder, substantially as shown.

142,846
**DESIGN FOR A PIN**
Joe V. Ecker, Chicago, Ill.
Application July 14, 1945, Serial No. 120,715
Term of patent 3½ years
(Cl. D45—19)



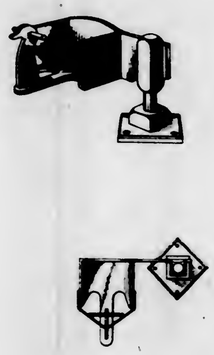
The ornamental design for a pin, substantially as shown and described.

142,847
**DESIGN FOR A SHOE**
Joseph P. Famolare, Chestnut Hill, Mass.
Application July 31, 1945, Serial No. 121,102
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a shoe, substantially as shown and described.

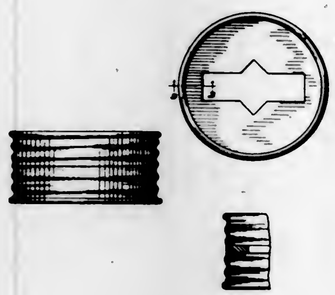
142,848
**DESIGN FOR A BABY WALKER**
John P. Fegely, Allentown, Pa.
Application June 21, 1944, Serial No. 114,114
Term of patent 7 years
(Cl. D15—1)



The ornamental design for a baby walker, as shown.



142,849
**DESIGN FOR A JAR COUPLING FOR HOLDING PAINT BRUSHES**
Titus Oliver Fredell, Minneapolis, Minn.
Application May 1, 1945, Serial No. 119,333
Term of patent 14 years
(Cl. D58—25)



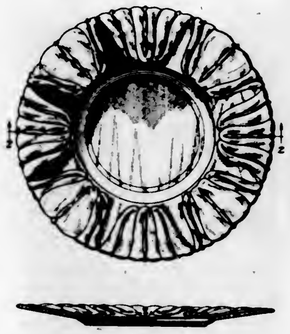
The ornamental design for a jar coupling for holding paint brushes, as shown.

142,850
**DESIGN FOR A COMBINED DESK AND BLACKBOARD**
Samuel H. Geffner, New York, N. Y.
Application December 16, 1944, Serial No. 116,930
Term of patent 7 years
(Cl. D33—7)



The ornamental design for a combined desk and blackboard, substantially as shown.

142,851
**DESIGN FOR A PLATE**
Samuel L. Gerson, Bridgeton, N. J.
Application January 2, 1945, Serial No. 117,225
Term of patent 14 years
(Cl. D36—2)



The ornamental design for a plate, as shown.

142,852
**DESIGN FOR A HANDBAG**
Gertrude J. Glick, Chicago, Ill.
Application January 9, 1945, Serial No. 117,364
Term of patent 7 years
(Cl. D67—3)



The ornamental design for a handbag, as shown.

**142,853**
**DESIGN FOR A TEXTILE FABRIC**
**Joseph Gluck, New York, N. Y.**
**Application August 10, 1945, Serial No. 121,358**
**Term of patent 3½ years**
**(Cl. D92—1)**



The ornamental design for a textile fabric, substantially as shown and described.

---

**142,854**
**DESIGN FOR A DRESS**
**Zelma Golden, New York, N. Y.**
**Application August 21, 1945, Serial No. 121,522**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

**142,855**
**DESIGN FOR A DRESS**
**Zelma Golden, New York, N. Y.**
**Application August 21, 1945, Serial No. 121,524**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

---

**142,856**
**DESIGN FOR A DRESS**
**Zelma Golden, New York, N. Y.**
**Application August 21, 1945, Serial No. 121,525**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.



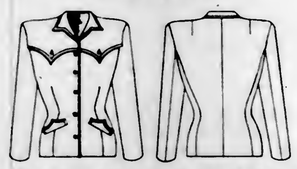
**142,857**
**DESIGN FOR A DRESS**
**Zelma Golden, New York, N. Y.**
**Application August 21, 1945, Serial No. 121,526**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

---

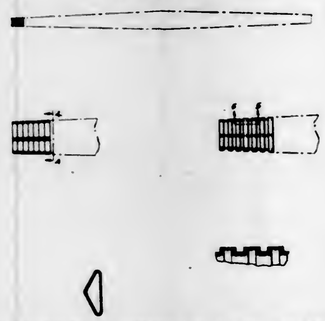
**142,858**
**DESIGN FOR A JACKET**
**Zelma Golden, New York, N. Y.**
**Application July 31, 1945, Serial No. 121,091**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a jacket, substantially as shown.

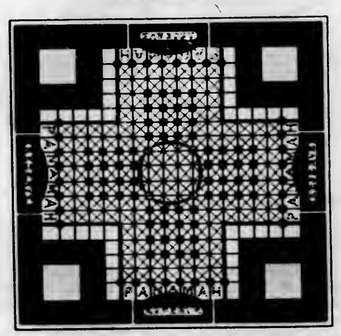
---

**142,859**
**DESIGN FOR A FLEXIBLE BAND FOR A BRACELET OR SIMILAR ARTICLE**
**Victor Guglielmi, Leonia, N. J.**
**Application July 7, 1945, Serial No. 120,563**
**Term of patent 7 years**
**(Cl. D45—4)**



The ornamental design for a flexible band for a bracelet or similar article, as shown.

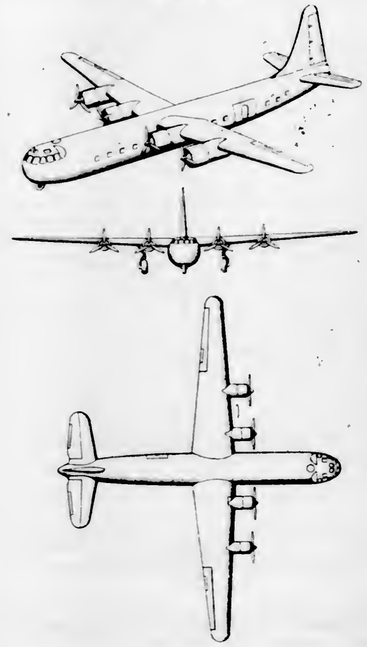
**142,860**
**DESIGN FOR A GAME BOARD**
**Henry I. Hagloch, Canton, and Leo W. Rose, Sr., Dover, Ohio**
**Application June 12, 1945, Serial No. 120,041**
**Term of patent 7 years**
**(Cl. D34—5)**



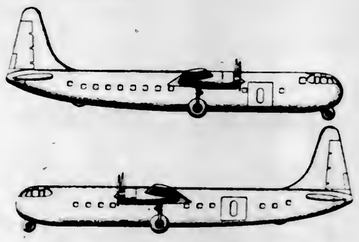

The ornamental design for a game board, substantially as shown and described.

---

**142,861**
**DESIGN FOR AN AIRPLANE**
**Theodore P. Hall, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware**
**Application November 29, 1944, Serial No. 116,609**
**Term of patent 14 years**
**(Cl. D71—1)**



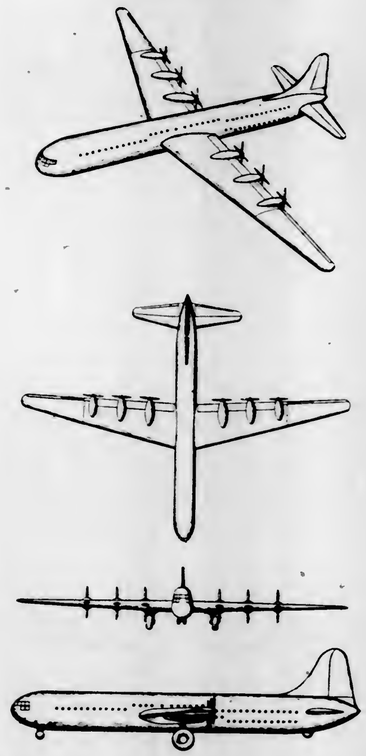
142,861—Continued



The ornamental design for an airplane, substantially as shown.

---

142,862
DESIGN FOR AN AIRPLANE
Theodore P. Hall, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application June 30, 1945, Serial No. 120,440
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, substantially as shown and described.

---

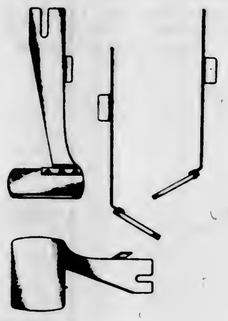
142,863
DESIGN FOR A PENCIL SHARPENER
Edward C. Hoffmann, St. Louis, Mo.
Application July 14, 1945, Serial No. 120,714
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a pencil sharpener, substantially as shown.

---

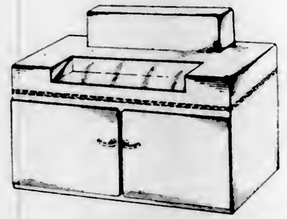
142,864
DESIGN FOR A FACE GUARD FOR SEWING MACHINE OPERATORS
Jonas F. Imberman, Los Angeles, Calif.
Application February 24, 1945, Serial No. 118,131
Term of patent 14 years
(Cl. D70—2)



The ornamental design for a face guard for sewing machine operators, as shown.



142,865
DESIGN FOR A MERCHANDISE DISPLAY CABINET
Fred M. Ingersoll, Boston, Mass., assignor to McCray Refrigerator Company, Kendallville, Ind., a corporation of Indiana
Application June 21, 1945, Serial No. 120,235
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a merchandise display cabinet, substantially as shown and described.

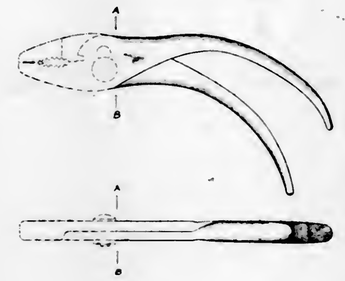
---

142,866
DESIGN FOR A PORTABLE FOLDABLE GRILL
Udo K. Johannsen, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application April 30, 1945, Serial No. 119,315
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a portable foldable grill, as shown.

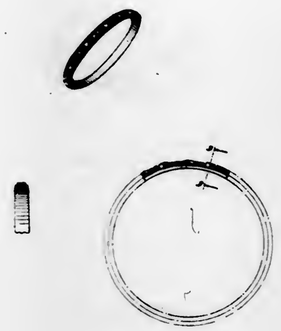
142,867
DESIGN FOR A PAIR OF PLIERS OR SIMILAR ARTICLE
Eugene L. Johnson, Jr., Utica, N. Y., assignor to Utica Drop Forge & Tool Corporation, a corporation of New York
Application December 4, 1944, Serial No. 116,704
Term of patent 14 years
(Cl. D54—13)



The ornamental design for a pair of pliers or similar article, substantially as shown and described.

---

142,868
DESIGN FOR A FINGER RING
Henry J. Jung, Milwaukee, Wis.
Application July 19, 1945, Serial No. 120,811
Term of patent 14 years
(Cl. D45—10)



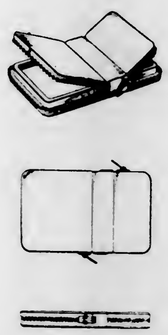
The ornamental design for a finger ring, substantially as shown and described.

142,869
**DESIGN FOR A DRESS**
Abraham M. Katz, Freeport, N. Y.
Application July 12, 1945, Serial No. 120,653
Term of patent 3½ years
(Cl. D3—26)



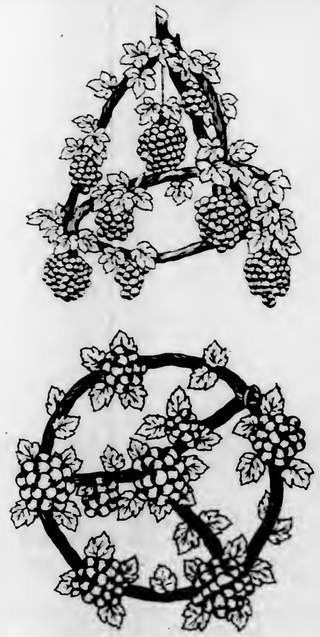
The ornamental design for a dress, substantially as shown.

142,870
**DESIGN FOR A COMBINATION CIGARETTE CASE AND COMPACT**
Ludwig Katz, Providence, R. I.
Application March 12, 1945, Serial No. 118,413
Term of patent 7 years
(Cl. D88—10)



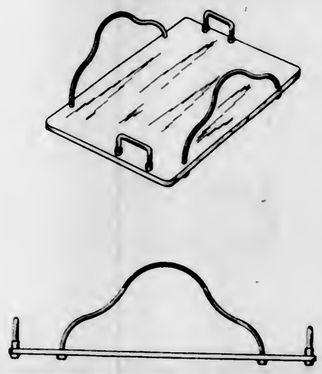
The ornamental design for a combination cigarette case and compact, substantially as shown.

142,871
**DESIGN FOR A CHANDELIER**
Gustave Kauders, Forest Hills, N. Y.
Application November 21, 1944, Serial No. 116,465
Term of patent 7 years
(Cl. D48—23)



The ornamental design for a chandelier, as shown.

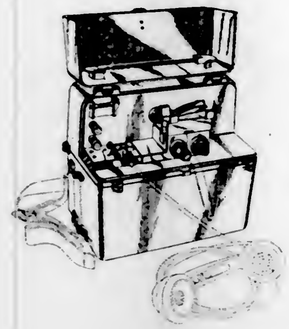
142,872
**DESIGN FOR A TRAY**
Alex Kerby, Lakewood, Ohio
Application December 7, 1944, Serial No. 116,777
Term of patent 14 years
(Cl. D44—10)

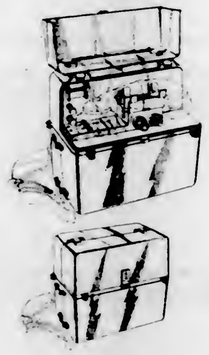


The ornamental design for a tray, as shown.



142,873
**DESIGN FOR A FIELD TELEPHONE**
Camillo A. Knorr, East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application February 12, 1945, Serial No. 117,892
Term of patent 14 years
(Cl. D26—14)





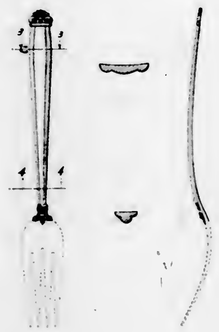
The ornamental design for a field telephone, as shown and described.

142,874
**DESIGN FOR A LADY'S SUIT**
Samuel Kusnetz, New York, N. Y.
Application July 28, 1945, Serial No. 121,038
Term of patent 3½ years
(Cl. D3—4)



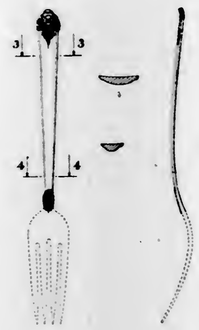
The ornamental design for a lady's suit, substantially as shown.

142,875
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
Isidore Albert Lipman, Meriden, Conn., assignor to The Ellmore Silver Company, Inc., Meriden, Conn., a corporation of Connecticut
Application June 18, 1945, Serial No. 120,194
Term of patent 14 years
(Cl. D54—12)



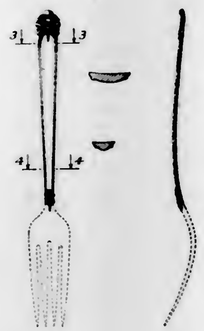
The ornamental design for a fork or other article of flatware, substantially as shown and described.

142,876
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
Isidore Albert Lipman, Meriden, Conn., assignor to The Elmore Silver Company, Inc., Meriden, Conn., a corporation of Connecticut
Application June 18, 1945, Serial No. 120,196
Term of patent 14 years
(Cl. D54—12)



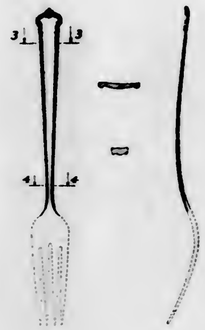
The ornamental design for a fork or other article of flatware, substantially as shown and described.

142,877
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
Isidore Albert Lipman, Meriden, Conn., assignor to The Elmore Silver Company, Inc., Meriden, Conn., a corporation of Connecticut
Application June 18, 1945, Serial No. 120,197
Term of patent 14 years
(Cl. D54—12)



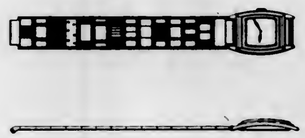
The ornamental design for a fork or other article of flatware, substantially as shown and described.

142,878
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
Isidore Albert Lipman, Meriden, Conn., assignor to The Elmore Silver Company, Inc., Meriden, Conn., a corporation of Connecticut
Application June 18, 1945, Serial No. 120,198
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a fork or other article of flatware, substantially as shown and described.

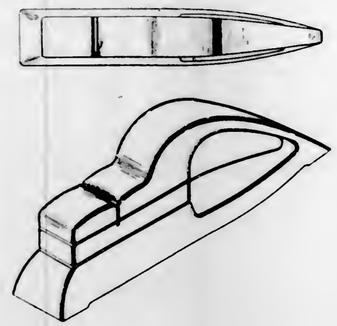
142,879
**DESIGN FOR A COMBINED WATCH AND BRACELET**
Arthur Rutledge Livingston, San Francisco, Calif.
Application November 1, 1944, Serial No. 116,090
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a combined watch and bracelet, substantially as shown.



142,880
**DESIGN FOR A KNIFE SHARPENER**
Adolphe W. Loucony, Bridgeport, Conn., assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut
Application December 6, 1944, Serial No. 116,737
Term of patent 3½ years
(Cl. D37—1)



The ornamental design for a knife sharpener, substantially as shown.

142,881
**DESIGN FOR A GOOSENECK COUPLING FOR A DRAWN VEHICLE**
William E. Martin, Kewanee, Ill.
Application August 14, 1944, Serial No. 114,884
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a gooseneck coupling for a drawn vehicle, substantially as shown.

142,882
**DESIGN FOR A GOOSENECK COUPLING FOR A DRAWN VEHICLE**
William E. Martin, Kewanee, Ill.
Application September 6, 1944, Serial No. 115,207
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a gooseneck coupling for a drawn vehicle, substantially as shown.

142,883
**DESIGN FOR A GOOSENECK COUPLING FOR A DRAWN VEHICLE**
William E. Martin, Kewanee, Ill.
Application September 6, 1944, Serial No. 115,208
Term of patent 14 years
(Cl. D14—6)



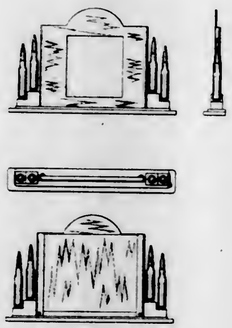
The ornamental design for a gooseneck coupling for a drawn vehicle, substantially as shown.

142,884
**DESIGN FOR A GOOSENECK COUPLING FOR A DRAWN VEHICLE**
William E. Martin, Kewanee, Ill.
Application September 6, 1944, Serial No. 115,209
Term of patent 14 years
(Cl. D14—6)



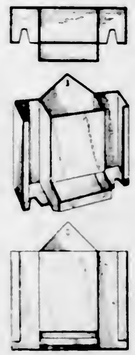
The ornamental design for a gooseneck coupling for a drawn vehicle, substantially as shown.

142,885
**DESIGN FOR A PICTURE FRAME**
William McCrory, Los Angeles, Calif.
Application June 1, 1945, Serial No. 119,843
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

142,886
**DESIGN FOR A MATCH DISPENSER**
Francis R. McNine, Bridgeport, Conn.
Application January 9, 1945, Serial No. 117,360
Term of patent 7 years
(Cl. D48—28)



The ornamental design for a match dispenser, substantially as shown.

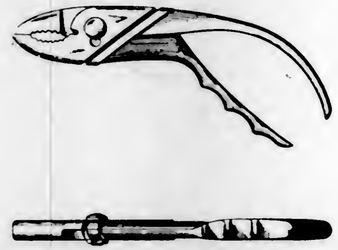
142,887
**DESIGN FOR A BRACELET OR SIMILAR ARTICLE**
Dwight H. Millard, Norwalk, Calif.
Application July 2, 1945, Serial No. 120,467
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or similar article, as shown and described.

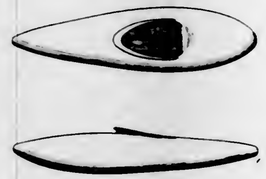


142,888
**DESIGN FOR A PLIER**
Alfred H. Miller, Philadelphia, Pa., assignor to Utica Drop Forge & Tool Corporation, a corporation of New York
Application January 5, 1945, Serial No. 117,290
Term of patent 14 years
(Cl. D54—13)



The ornamental design for a plier, substantially as shown.

142,889
**DESIGN FOR A BOAT**
William H. Miller, Jr., South Orange, N. J.
Application June 30, 1943, Serial No. 110,572
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a boat, as shown.

142,890
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,632
Term of patent 3½ years
(Cl. D45—9)



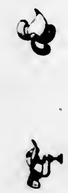
The ornamental design for an earring, substantially as shown.

142,891
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,631
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an earring, substantially as shown.

142,892
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,801
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an earring, substantially as shown.

142,893
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,623
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,894
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,626
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,895
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,627
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,896
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,629
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,897
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,630
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,898
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,794
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

142,899
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,797
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.



142,900
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,798
Term of patent 3½ years
(Cl. D45—19)



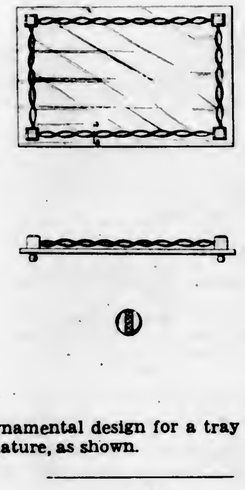
The ornamental design for a jewelry pin or similar article, substantially as shown.

142,901
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,800
Term of patent 3½ years
(Cl. D45—19)



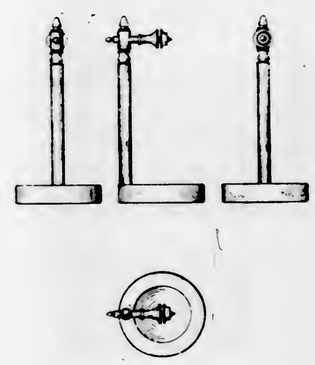
The ornamental design for a jewelry pin or similar article, substantially as shown.

142,902
**DESIGN FOR A TRAY OR ARTICLE OF SIMILAR NATURE**
Nathaniel Moss, Brooklyn, N. Y.
Application March 19, 1945, Serial No. 118,569
Term of patent 3½ years
(Cl. D44—10)



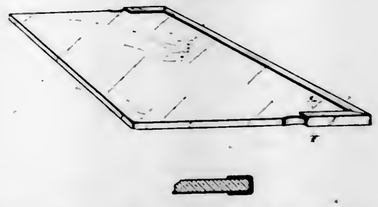
The ornamental design for a tray or article of similar nature, as shown.

142,903
**DESIGN FOR A CROCHETING STAND OR THE LIKE**
Thomas B. Owens, Cleveland, Ohio
Application July 12, 1945, Serial No. 120,676
Term of patent 14 years
(Cl. D8—19)



The ornamental design for a crocheting stand or the like, substantially as shown.

142,904
**DESIGN FOR A REFRIGERATOR SHELF**
Ormond H. Paddock, Rossford, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 14, 1944, Serial No. 115,297
Term of patent 14 years
(Cl. D33—3)



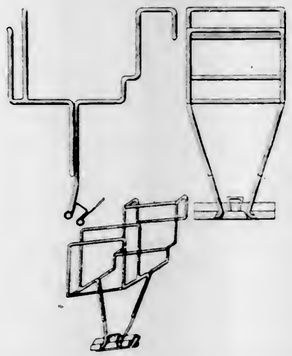
The ornamental design for a refrigerator shelf, substantially as shown.

142,905
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Alfred Philippe, Scarsdale, N. Y.
Application July 14, 1945, Serial No. 120,702
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

142,906
**DESIGN FOR A COMBINED HOLDER FOR CIGARETTES AND MATCHES**
Loretta M. Provost, Glendale, Calif.
Application January 19, 1945, Serial No. 117,501
Term of patent 3½ years
(Cl. D48—28)



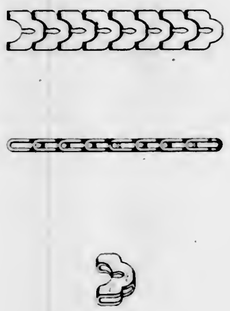
The ornamental design for a combined holder for cigarettes and matches, as shown.

142,907
**DESIGN FOR A DOLL**
Lillian R. Reinert, Hammond, Ind.
Application June 20, 1945, Serial No. 120,211
Term of patent 7 years
(Cl. D34—4)



The ornamental design for a doll, as shown.

142,908
**DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE**
Morris Rossein, New York, N. Y.
Application June 22, 1945, Serial No. 120,268
Term of patent 14 years
(Cl. D45—16)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

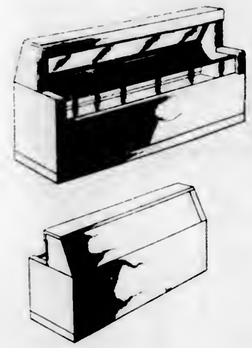


142,909
**DESIGN FOR AN INFANT'S PORTABLE TOILET SEAT**
Sacha S. Schnittmann, St. Louis, Mo.
Application November 6, 1944, Serial No. 116,184
Term of patent 14 years
(Cl. D4—5)



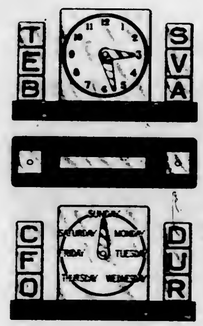
The ornamental design for an infant's portable toilet seat, substantially as shown and described.

142,910
**DESIGN FOR A DISPLAY REFRIGERATOR**
Clifford B. Shreve, Niles, Mich., assignor to Tyler Fixture Corporation, Niles, Mich., a corporation of Michigan
Application June 25, 1945, Serial No. 120,329
Term of patent 14 years
(Cl. D80—11)



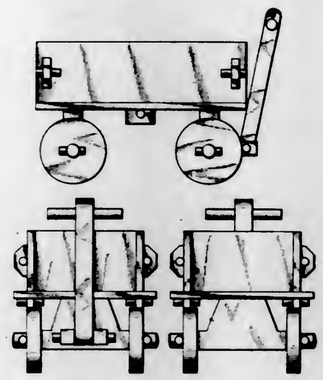
The ornamental design for a display refrigerator, substantially as shown.

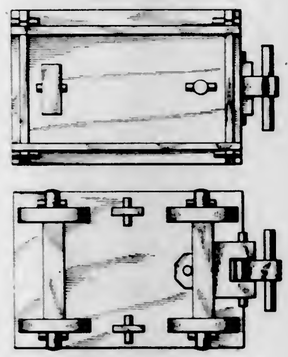
142,911
**DESIGN FOR AN EDUCATIONAL TOY FOR CHILDREN**
Henry Shrier, Forest Hills, N. Y.
Application June 29, 1945, Serial No. 120,408
Term of patent 3½ years
(Cl. D34—15)




The ornamental design for an educational toy for children, substantially as shown.

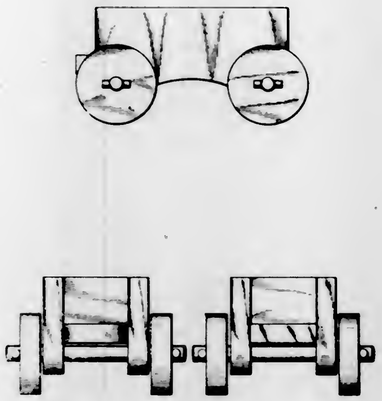
142,912
**DESIGN FOR A TOY WAGON**
Edwin F. Silkman, Baltimore, Md.
Application July 12, 1945, Serial No. 120,655
Term of patent 7 years
(Cl. D34—15)

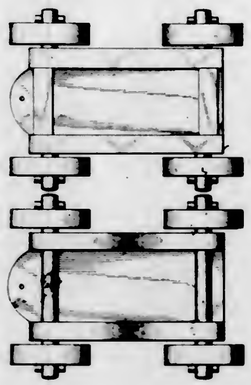




The ornamental design for a toy wagon, as shown.

142,913
**DESIGN FOR A WOODEN PULL TOY**
Edwin F. Silkman, Baltimore, Md.
Application July 12, 1945, Serial No. 120,654
Term of patent 7 years
(Cl. D34—15)

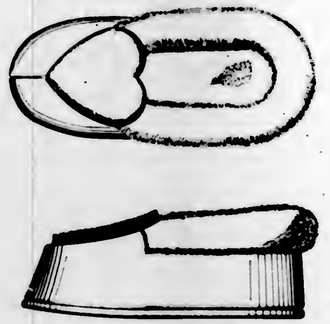




The ornamental design for a wooden pull toy, as shown.

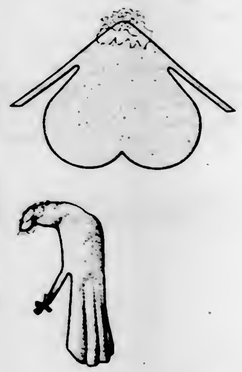


142,914
**DESIGN FOR A SLIPPER**
Myer S. Silver, Brookline, Mass.
Application August 10, 1945, Serial No. 121,361
Term of patent 7 years
(Cl. D7—7)



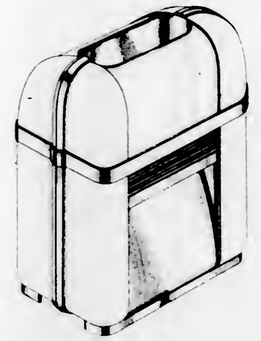
The ornamental design for a slipper, substantially as shown.

142,915
**DESIGN FOR A HEAD SCARF**
Beatrice B. Smith and Eleanor Z. Cauter, New York, N. Y.
Application August 12, 1944, Serial No. 114,861
Term of patent 3½ years
(Cl. D3—13)



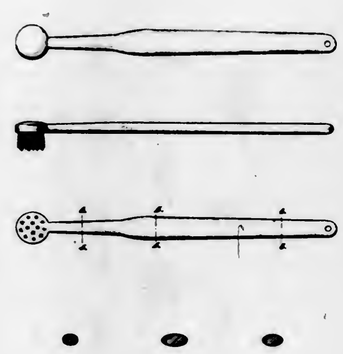
The ornamental design for a head scarf, substantially as shown and described.

142,916
**DESIGN FOR A MEAT TENDERIZING MACHINE**
Joseph P. Spang, Milton, Mass.
Application February 24, 1945, Serial No. 118,115
Term of patent 14 years
(Cl. D55—1)



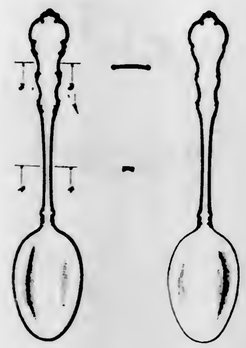
The ornamental design for a meat tenderizing machine, substantially as shown and described.

142,917
**DESIGN FOR A TOOTHBRUSH**
Richard D. Strieby, Kansas City, Mo.
Application January 19, 1945, Serial No. 117,503
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a toothbrush, as shown.

142,918
**DESIGN FOR A SPOON OR SIMILAR ARTICLE**
George L. Turner, Taunton, Mass., assignor to Reed & Barton, Taunton, Mass., a corporation of Massachusetts
Application July 20, 1945, Serial No. 120,838
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or similar article, as shown.

---

142,919
**DESIGN FOR WALLPAPER**
Frank Urschel, St. Louis, Mo.
Application July 1, 1944, Serial No. 114,283
Term of patent 3½ years
(Cl. D59—10)



The ornamental design for wallpaper, as shown.

142,920
**DESIGN FOR A WALL SHELF**
Norbert Vander Bloomen, West De Pere, Wis.
Application August 4, 1945, Serial No. 121,226
Term of patent 7 years
(Cl. D32—3)



The ornamental design for a wall shelf, as shown.

---

142,921
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Gene Verrecchio, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1945, Serial No. 120,443
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

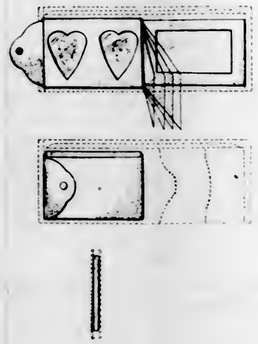
142,922
**DESIGN FOR A SMOKING PIPE**
Charles W. Von Rosenberg, Kansas City, Mo.
Application June 6, 1945, Serial No. 119,927
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a smoking pipe, as shown.



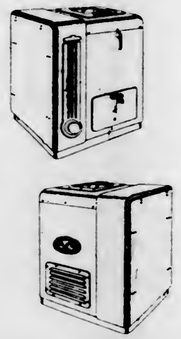
142,923
**DESIGN FOR A COMBINED FOLDER FOR BILLS, PICTURES, CARDS, OR THE LIKE**
Jacob Wagner, Chicago, Ill.
Application April 30, 1945, Serial No. 119,305
Term of patent 14 years
(Cl. D67—3)



The ornamental design for a combined folder for bills, pictures, cards, or the like, substantially as shown and described.

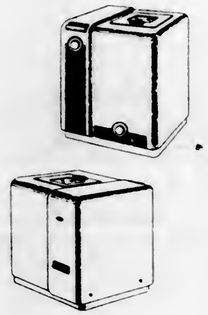
---

142,924
**DESIGN FOR A WASHING MACHINE**
George W. Walker, Detroit, Mich., assignor, by mesne assignments, to Hyman D. Brotman, Detroit, Mich.
Application March 15, 1945, Serial No. 118,506
Term of patent 14 years
(Cl. D49—1)



The ornamental design for a washing machine, as shown.

142,925
**DESIGN FOR A WASHING MACHINE**
George W. Walker, Detroit, Mich., assignor, by mesne assignments, to Hyman D. Brotman, Detroit, Mich.
Application April 28, 1945, Serial No. 119,296
Term of patent 14 years
(Cl. D49—1)



The ornamental design for a washing machine, as shown.

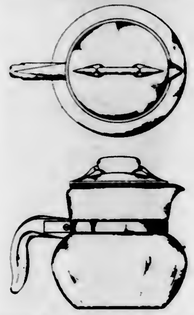
---

142,926
**DESIGN FOR A DRESS**
Joset Walker, New York, N. Y.
Application August 14, 1945, Serial No. 121,422
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

**142,927**
**DESIGN FOR A COVERED PITCHER**
**John B. Ward, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York**
**Application June 11, 1945, Serial No. 120,012**
**Term of patent 14 years**
**(Cl. D44—21)**



The ornamental design for a covered pitcher, as shown.

**142,928**
**DESIGN FOR A VALVE HANDLE**
**Richard H. Wright, Cleveland Heights, Ohio**
**Application July 12, 1945, Serial No. 120,674**
**Term of patent 14 years**
**(Cl. D78—1)**



The ornamental design for a valve handle, substantially as shown.



THE
# OFFICIAL GAZETTE
OF THE
## United States Patent Office

Vol. 580—No. 3 TUESDAY, NOVEMBER 20, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

| | Page |
|---|---|
| ISSUE OF NOVEMBER 20, 1945 | 335 |
| ADVERSE DECISIONS IN INTERFERENCE | 335 |
| NOTICE—ATTORNEY'S ADDRESS | 335 |
| RECORDING CORPORATE NAMES | 335 |
| AMENDMENTS OF DRAWINGS | 335 |
| DATA GIVEN IN CITING FOREIGN PATENTS | 335 |
| AMENDMENT FILED BY AN ATTORNEY NOT OF RECORD | 335 |
| NO NOTIFICATION BY EXAMINER OF STATUS OF A CASE DECIDED BY BOARD | 335 |
| AMENDMENT UNDER RULE 78 | 335 |
| APPLICATIONS UNDER EXAMINATION | 336 |
| DECISIONS OF THE U. S. COURTS— | |
| In re Flint | 337 |
| In re Rudzka et al | 340 |
| In re Wilson | 342 |
| In re Meyer | 344 |
| REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE | 345 |
| NOTICE | 348 |
| TRADE-MARKS PUBLISHED (137 APPLICATIONS) | 349 |
| TRADE-MARK REGISTRATIONS GRANTED | 366 |
| TRADE-MARK REGISTRATIONS RENEWED | 374 |
| REISSUES | 375 |
| PLANT PATENTS | 375 |
| PATENTS GRANTED | 376 |
| DESIGNS | 490 |

### November 20, 1945

| | | | |
|---|---|---|---|
| Trade-Marks | 167 | No. 417,818 to No. | 417,984, inclusive. |
| T. M. Renewals | 13 | | |
| Reissues | 2 | No. 22,693 to No. | 22,694, inclusive. |
| Plant Patents | 1 | No. 661 | |
| Patents | 460 | No. 2,389,115 to No. | 2,389,583, inclusive. |
| Designs | 48 | No. 142,929 to No. | 142,976, inclusive. |
| Total | 700 | | |

### Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,349,289, G. L. Larison, Vehicle wheel mounting, decided Oct. 15, 1945, claims 2 and 3.

Pat. 2,361,343, G. E. Woodmark, Crystal container, decided Oct. 30, 1945, claims 2, 5, and 7.

Pat. 2,360,542, M. M. Berry, Boost control valve, decided Oct. 30, 1945, claims 6, 16, and 24.

### Notice—Attorney's Address

**Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.**

### Recording Corporate Names

Corporations wishing to prevent others registering their names as trade-marks under the act of 1905 may record their articles of incorporation in the Patent Office. The charge for such recording is $3 for each paper not exceeding 6 pages, and $1 for each additional 2 pages or less.

### Amendments of Drawings

Hereafter corrections and alterations in the disclosure of the drawings in pending applications will be made only by the draftsmen employed by the Patent Office. Inventors, attorneys, and Examiners will be guided by this order. The Chief Draftsman will make a reasonable charge for such changes as may be necessary.

### Data Given in Citing Foreign Patents

In citing a foreign patent the total number of drawings and the total number of pages of specification must be specified and in case part only of the patent be involved, the particular sheets of the drawing containing the parts relied upon must be identified by number or by stating the numbers of the figures involved.

### Amendment Filed by an Attorney Not of Record

When an amendment is filed, signed by an attorney whose power is not of record, he, as well as the applicant, should be notified that the amendment cannot be entered.

When the Examiner's letter is of such a character that the six months for amendment runs from the date of a previous action, a statement to that effect should be made at the end of the letter and the date from which the six months runs given.

### No Notification by Examiner of Status of a Case Decided by Board

After any decision of the Board of Appeals, it is unnecessary and improper for the Examiner to notify the applicant of the status of the case unless asked to do so. Responsive action must be taken by the applicant on his own initiative within six months from the date of the decision.

### Amendment under Rule 78

The patentability of a claim submitted under rule 78 should ordinarily be apparent on inspection; and a statement by the Examiner that "It is not obvious that the claim is patentable" is accepted as sufficient reason for refusing admission of the amendment.

## Condition of Applications Under Examination at Close of Business November 2, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 76,008; Trade-Mark Division, 3,001. Oldest new case, Oct. 12, 1944; oldest amended, Oct. 23, 1944.)

(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action | | No. of applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 1 | Jan. 1 | 1238 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Nov. 7 | †Nov. 6 | 1451 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 4 | Jan. 5 | 1410 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | †Oct. 25 | Mar. 23 | 1188 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Oct. 30 | †Nov. 4 | 1994 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb 3 | Mar. 1 | 1327 |
| 7. JARBOE, C. G., Optics, Photography | May 17 | May 11 | 1106 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 15 | Apr. 7 | 1272 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 4 | 1382 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 9 | June 2 | 375 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 1 | †Nov. 25 | 1408 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning | Mar. 29 | Mar. 22 | 1166 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Apr. 2 | Mar. 26 | 806 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | Mar. 21 | Apr. 19 | 941 |
| 16. SPENCER, C. J. Telegraphy; Telephony | Mar. 19 | Mar. 19 | 906 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | †Dec. 21 | †Dec. 26 | 722 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Jan. 24 | Feb. 17 | 1267 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Feb. 3 | Jan. 24 | 822 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Feb. 28 | Mar. 13 | 873 |
| 21. THOMPSON, T. J., Textiles | Apr. 6 | May 5 | 552 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Mar. 9 | Mar. 3 | 1334 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 9 | 167 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 4 | Mar. 21 | 883 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Jan. 31 | Feb. 14 | 1061 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 15 | †Dec. 1 | 1329 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Dec. 1 | 1256 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Nov. 17 | †Nov. 14 | 1073 |
| 29. SILVARIN, J. B., Barrow; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools | †Dec. 21 | †Dec. 21 | 1273 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 8 | Feb. 8 | 1357 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | June 11 | June 9 | 881 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Apr. 5 | Apr. 12 | 1013 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 6 | Feb. 12 | 1278 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 5 | Feb. 19 | 738 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Jan. 22 | Jan. 23 | 1100 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Feb. 23 | Feb. 21 | 869 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | †Dec. 23 | †Dec. 6 | 1283 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Jan. 8 | Jan. 2 | 973 |
| 39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 8 | Jan. 8 | 1404 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 9 | Feb. 10 | 1577 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 599 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Feb. 28 | Mar. 27 | 677 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 12 | Jan. 4 | 817 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Oct. 27 | †Oct. 23 | 742 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Jan. 5 | Jan. 30 | 1424 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | †Dec. 11 | †Dec. 21 | 828 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 3 | Apr. 10 | 1331 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | †Dec. 26 | †Dec. 21 | 1376 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Mar. 3 | Apr. 2 | 733 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 6 | Mar. 8 | 1554 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Jan. 16 | Jan. 20 | 2112 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 4 | Feb. 2 | 1798 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Oct. 28 | †Nov. 30 | 1446 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 12 | †Nov. 15 | 1508 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 2 | Mar. 9 | 967 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | †Dec. 19 | †Dec. 26 | 1163 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 4 | †Dec. 8 | 1255 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | Apr. 27 | 736 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 8 | †Dec. 14 | 1465 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 10 | Jan. 10 | 1250 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 6 | Feb. 21 | 1230 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 1 | †Dec. 8 | 2038 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 20 | Jan. 8 | 1638 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | June 29 | June 28 | 842 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Nov. 8 | †Nov. 27 | 1432 |
| Trade-Marks: RICHMOND, F. A | July 2 | Aug. 17 | 3001 |
| Designs: KALUPY, H. H | July 20 | Aug. 31 | 1942 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Air Reduction Sales Company, New York, N. Y. Welding rods. Serial No. 474,688; Nov. 20. Class 14.

Allied Kid Company, Boston, Mass. Upper leathers. Serial No. 485,934; Nov. 20. Class 1.

Allied Salt & Chemical Co.: *See*—
Zion, William B.

American Communications Corporation, New York, N. Y. Radio equipment. Serial No. 473,171; Nov. 20. Class 21.

American Cyanamid & Chemical Corporation, New York, N. Y. Compound tannin and an organic colloid. Serial No. 485,675; Nov. 20. Class 6.

American Gas Machine Company, Albert Lea, Minn. Gas and oil burning water heaters. Serial No. 487,543; Nov. 20. Class 34.

American Safety Razor Corporation, Brooklyn, N. Y. Paper bedpan covers. Serial No. 486,445; Nov. 20. Class 37.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Nail polish. Serial No. 484,995; Nov. 20. Class 6.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Rouge, lipstick, and nail polish. Serial No. 485,119; Nov. 20. Class 6.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lotion for the legs. Serial No. 485,120; Nov. 20. Class 6.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Face and body creams. Serial No. 485,121; Nov. 20. Class 6.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipsticks, lip pencils, rouge, etc. Serial No. 486,076; Nov. 20. Class 6.

Aronoff, Richling & Fein, Inc., New York, N. Y. Ladies' and children's dresses, suits, and coats. Serial No. 484,926; Nov. 20. Class 39.

Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. Serial Nos. 488,498–9; Nov. 20. Class 15.

Atomic Lighter Corporation, New York, N. Y. Friction fluid-spark, vapor pocket lighters. Serial No. 487,657; Nov. 20. Class 34.

Audiwear Accessories Company, Brooklyn, N. Y. Undergarments. Serial No. 483,952; Nov. 20. Class 39.

Bami Inc., New York, N. Y. Men's and women's wearing apparel. Serial No. 478,204; Nov. 20. Class 39.

Barker, Clemon W., doing business as Barker Mfg. Co., Wichita, Kans. Machine for holding carburetors, distributors, etc. Serial No. 476,002; Nov. 20. Class 23.

Barker Mfg. Co.: *See*—
Barker, Clemon W.

Benet Drug Corporation, The, Cincinnati, Ohio. Preparation used as a skin lotion. Serial No. 481,570; Nov. 20. Class 6.

Bird & Son, inc., East Walpole, Mass. Plant pots and boxes. Serial No. 473,975; Nov. 20. Class 2.

Boeckeler Associates, Trenton, Mich. Distillers dried solubles. Serial No. 481,937; Nov. 20. Class 46.

Borgfeldt, Geo., Corporation, New York, N. Y. Glassware. Serial No. 486,351; Nov. 20. Class 33.

Bouton: *See*—
Button, George W., Co.

Burke & James, Inc., Chicago, Ill. Electric foot switches. Serial No. 486,606; Nov. 20. Class 21.

Burkhardt, Frederic T., Holyoke, Mass. Writing paper and mailing envelopes. Serial No. 486,559; Nov. 20. Class 37.

Button, George W., Co., trading as Bouton, New York, N. Y. Perfume and toilet water. Serial No. 485,720; Nov. 20. Class 6.

Cassell Products, Inc., New York, N. Y. Toilet water. Serial No. 479,777; Nov. 20. Class 6.

Celanese Corporation of America, New York, N. Y. Piece goods. Serial No. 486,085; Nov. 20. Class 42.

Central Petroleum Company, Cleveland, Ohio. Lubricating oils and greases. Serial No. 485,751; Nov. 20. Class 15.

Central Plastics Co., Waukegan, Ill. Trays. Serial No. 485,194; Nov. 20. Class 2.

Clean-Rite Vacuum Stores of Washington, Inc., Washington, D. C. Electric vacuum cleaners. Serial No. 485,475; Nov. 20. Class 21.

Columbian Steel Tank Company, Kansas City, Mo. Hog feeders, hog waterers, steel ladders, etc. Serial No. 478,494; Nov. 20. Class 50.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial Nos. 485,760–3; Nov. 20. Class 6.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial Nos. 486,292–3; Nov. 20. Class 6.

Cowan, Elisabeth, Washington, D. C. Earrings, clips, pins, etc. Serial No. 485,857; Nov. 20. Class 28.

Country Gardens, Inc., Gillett, Wis. Canned vegetables. Serial No. 467,591; Nov. 20. Class 46.

Deering Milliken & Co. Inc., New York, N. Y. Fabric constructed in the warp and filling from a wool yarn blended with a mink hair fur. Serial No. 486,357; Nov. 20. Class 42.

Defender Photo Supply Co., Inc., Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Light-sensitive photographic paper. Serial No. 481,469; Nov. 20. Class 26.

Delta Canning Company: *See*—
Frost, John E.

Denny, Reginald, Industries Inc., Los Angeles, Calif. Internal combustion engines. Serial No. 486,246; Nov. 20. Class 23.

Downey, C. L., Company, The, Hannibal, Mo. Coin wrappers. Serial No. 472,238; Nov. 20. Class 37.

Drug Products Co., Inc., The, Long Island City, N. Y. Ointment preparation. Serial No. 486,358; Nov. 20. Class 6.

Du Pont, E. I., de Nemours & Company: *See*—
Defender Photo Supply Co., Inc., assignor.

Eagle Mattress Company, Inc., Allston, Mass. Crib mattresses. Serial No. 487,933; Nov. 20. Class 32.

Eitel-McCullough, Inc., San Bruno, Calif. Vacuum pump oil. Serial No. 480,862; Nov. 20. Class 15.

Ergatto Gloves Inc., Brooklyn, N. Y. Men's, women's, and children's slippers and mittens. Serial No. 484,525; Nov. 20. Class 39.

Evans, William I., Los Angeles, Calif. Serving tables and stands. Serial No. 485,565; Nov. 20. Class 32.

Ferro Enamel Corporation, Cleveland, Ohio. Glaze and enamel frit and clay. Serial No. 473,640; Nov. 20 Class 1.

Ferro Enamel Corporation, Cleveland, Ohio. Glaze and enamel frit and clay. Serial No. 473,776; Nov. 20. Class 1.

Forest City Publishing Company, The, Cleveland, Ohio. Newspaper. Serial No. 483,521; Nov. 20. Class 38.

Forstmann Woolen Co., The, Passaic, N. J. Woolen piece goods. Serial No. 480,897; Nov. 20. Class 42.

4 CCCC Inc., New York, N. Y. Dandruff remedy. Serial No. 477,502; Nov. 20. Class 6.

Fox, H., & Co., Brooklyn, N. Y. Sirups. Serial No. 486,102; Nov. 20. Class 46.

Friedman, A. I., Company: *See*—
Friedman, Abraham I.

Friedman, Abraham I., doing business as A. I. Friedman Company, New York, N. Y. Writing and letter papers. Serial No. 485,564; Nov. 20. Class 37.

Frost, John E., doing business as Delta Canning Company, Raymondville, Tex. Canned cream peas. Serial No. 474,029; Nov. 20. Class 46.

Goldman Bros., New York, N. Y. Bobby pins. Serial No. 483,724; Nov. 20. Class 40.

Gramercy Toy Company, New York, N. Y. Toy dolls and toy animals. Serial No. 487,677; Nov. 20. Class 22.

Guthman, H. A., & Co., Chicago, Ill. Wallets, billfolds, kit bags, etc. Serial No. 482,571; Nov. 20. Class 3.

H & H Company, The: *See*—
Kays, Benjamin C.

Handkerchief Corporation of America, The, Los Angeles, Calif. Handkerchiefs, belts for outerwear, suspenders, and scarfs. Serial No. 480,582; Nov. 20. Class 39.

Harris, John D., Larchmont, N. Y. Surgical tape. Serial No. 464,968; Nov. 20. Class 44.

Huffman Full Fashioned Mills, Inc., Morganton, N. C. Ladies' hosiery. Serial No. 485,015; Nov. 20. Class 39.

Iowa Feed Company, Des Moines, Iowa. D-activated animal sterol dispersed on soybean oil meal. Serial No. 483,061; Nov. 20. Class 46.

Jordan Marsh Company, Boston, Mass. Men's clothing. Serial No. 486,041; Nov. 20. Class 39.

Katz Drug Company, doing business as King Products Co., Kansas City, Mo. Combination face cream. Serial No. 476,843; Nov. 20. Class 6.

Katz, Morris, & Sons, New York, N. Y. Men's, women's, and children's slippers. Serial No. 482,878; Nov. 20. Class 39.

Kays, Benjamin C., doing business as The H & H Company, Kansas City, Mo. Hard faced valves, rocker arms, fuel pump shafts, etc. Serial No. 485,870; Nov. 20. Class 23.

King Products Co.: *See*—
Katz Drug Company.

Kraus, Herman J., doing business as Kraus Ribbon and Carbon Company, Pittsburgh, Pa. Typewriter ribbons and carbon paper. Serial No. 485,052; Nov. 20. Class 11.

Kraus Ribbon and Carbon Company: *See*—
Kraus, Herman J.

Lakeside Laboratories, Inc., Milwaukee, Wis. Lutenizing hormone, chorionic gonadotropin, from human pregnancy urine. Serial No. 480,331; Nov. 20. Class 6.

Lakeside Laboratories, Inc. Milwaukee, Wis. Solution of bismuth tri-a-ethylcaproate in sesame oil. Serial No. 480,335; Nov. 20. Class 6.

Laporte, B., Limited, Luton, Bedfordshire, England. Hydrogen peroxide, barium carbonate, barium peroxide, etc. Serial No. 483,328; Nov. 20. Class 6.

Lederle Laboratories, Inc., New York, N. Y. Poultry preparation. Serial No. 485,053; Nov. 20. Class 6.

Linick, Eddie, New York, N. Y. Ladies' and children's gloves and mittens. Serial No. 482,383; Nov. 20. Class 39.

Lorain Products Corporation, Lorain, Ohio. Battery chargers. Serial Nos. 486,112–13; Nov. 20. Class 21.

Lynette Perfumes, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 486,419; Nov. 20. Class 6.

Maritime Milling Co., Inc., Buffalo, N. Y. Dairy, stock, and poultry feeds, and dog food, chick feed, etc. Serial No. 462,020; Nov. 20. Class 46.

Matawan Lighter Company, Inc., New York, N. Y. Mechanical cigar and cigarette lighters. Serial No. 487,050; Nov. 20. Class 34.

McQuade, John & Co., Inc., New York, N. Y. Paint thinners and paint oils. Serial No. 486,214; Nov. 20. Class 16.

Metabs Remedy Company: *See*—
Thatcher, William C.

Metroloy Company, Newark, N. J. Tungsten electrical contacts, tungsten lead-in wires, etc. Serial No. 471,568; Nov. 20. Class 21.

Mississippi Glass Company, St. Louis, Mo. Non-laminated glass in sheet form. Serial No. 481,286; Nov. 20. Class 33.

Monsanto Chemical Company, St. Louis, Mo. Calcium phosphates. Serial No. 485,878; Nov. 20. Class 6.

Morton Manufacturing Corporation, Lynchburg, Va. Perfume, face powder, and talcum powder. Serial No. 485,028; Nov. 20. Class 6.

Multi Products, Incorporated, Chicago, Ill. Novelties. Serial No. 471,410; Nov. 20. Class 50.

North Bergen Rubber Mfg. Co., North Bergen, N. J. Rubber and/or plastic composition in sheet form. Serial Nos. 482,889–90; Nov. 20. Class 50.

North Dakota Mill & Elevator: *See*—
North Dakota Mill & Elevator Association.

North Dakota Mill & Elevator Association, doing business as North Dakota Mill & Elevator, and State Mill & Elevator, Grand Forks, N. D. Wheat flour. Serial No. 474,706; Nov. 20. Class 46.

Olympia Brewing Company, Olympia, Wash. Dried brewer's yeast in powdered form. Serial No. 482,696; Nov. 20. Class 46.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and desk sets. Serial No. 475,865; Nov. 20. Class 37.

Phelps, Phoebe, Caramel Company, Boston, Mass. Candy. Serial No. 473,747; Nov. 20. Class 46.

Pich, Ann, Chicago, Ill. Flowers, cut and potted, and ferns. Serial No. 484,541; Nov. 20. Class 1.

Pitometer Log Corporation, New York, N. Y. Unitary ship's log apparatus. Serial Nos. 469,128–30; Nov. 20. Class 26.

Pollak, Henry, Inc., New York, N. Y. Hat braids and millinery braids. Serial No. 484,215; Nov. 20. Class 40.

Popjoy Popcorn Company: *See*—
Willey, Richard.

Prudential Paper Products Company, New York, N. Y. Writing paper tablets and envelopes. Serial No. 485,921; Nov. 20. Class 37.

Pyn Ointment Co., The, Pensacola, Fla. Ointment. Serial No. 482,762; Nov. 20. Class 6.

Ravel Perfumes Inc., New York, N. Y. Perfumes. Serial No. 486,002; Nov. 20. Class 6.

Ravel Perfumes Inc., New York, N. Y. Perfumes. Serial No. 486,004; Nov. 20. Class 6.

Reiter, Adolph, New York, N. Y. Shoe laces and garment lacings. Serial No. 483,924; Nov. 20. Class 40.

Rubber Corporation of America, Brooklyn, N. Y. Ladies' dress shields. Serial No. 482,351; Nov. 20. Class 40.

Rubbert Corporation of America, Brooklyn, N. Y. Baby crib sheets. Serial No. 482,352; Nov. 20. Class 42.

Scarne, John, Fairview, N. J. Game. Serial No. 486,918; Nov. 20. Class 22.

Scherk, Ludwig, Inc., New York, N. Y. Razors and razor blades. Serial No. 486,438; Nov. 20. Class 23.

Scholl Mfg., Inc., The, Chicago, Ill. Flexible adhesive bandages. Serial No. 486,335; Nov. 20. Class 44.

Schwartz Manufacturing Company, Baltimore, Md. Electrically operated dictating machines. Serial No. 486,300; Nov. 20. Class 21.

Scott, Clyde, doing business as Scott Laboratories, Oradell, N. J. Rapid healing antiseptic. Serial No. 479,755; Nov. 20. Class 6.

Scott Laboratories: *See*—
Scott, Clyde.

Sharpe & Dohme, Incorporated, Philadelphia, Pa. Ointment. Serial No. 484,370; Nov. 20. Class 6.

Shaw, Munson G., Co., New York, N. Y. Wines. Serial No. 478,935; Nov. 20. Class 47.

Shur-luk Sport Accessory Company, Auburn, Ind. Fly-rod lures and plasticized fishing line bobbers. Serial No. 482,768; Nov. 20. Class 22.

Siegel, Jacob, Company, Philadelphia, Pa. Men's and young men's topcoats and overcoats. Serial No. 467,576; Nov. 20. Class 39.

Siegman, Arthur, Inc., New York, N. Y. Cologne. Serial No. 485,035; Nov. 20. Class 6.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sedative tonic. Serial No. 485,841; Nov. 20. Class 6.

Sonneborn, L., Sons, Inc., New York, N. Y. Insecticidal cattle spray. Serial No. 480,199; Nov. 20. Class 6.

Sonneborn, L., Sons, Inc., New York, N. Y. Varnishes. Serial No. 480,211; Nov. 20. Class 16.

South, Incorporated, New Orleans, La. Magazine. Serial No. 482,400; Nov. 20. Class 38.

Sports, Inc., Chicago, Ill. Grips for pistols and revolvers, cartridge holders, etc. Serial No. 480,000; Nov. 20. Class 9.

Stanco Incorporated, New York, N. Y. White mineral oil. Serial No. 476,531; Nov. 20. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Oil. Serial No. 487,103; Nov. 20. Class 15.

Standard Stoker Company, Inc., The, New York, N. Y. Fuel stokers. Serial No. 486,878; Nov. 20. Class 34.

State Mill & Elevator: *See*—
North Dakota Mill & Elevator Association.

Stein, Hall & Co., Inc., New York, N. Y. Gum composition. Serial No. 485,739; Nov. 20. Class 6.

Stern, Merritt Co. Inc., New York, N. Y. Mufflers and men's sport shirts. Serial No. 485,175; Nov. 20. Class 39.

Stutman, Hyman H., Brighton, Mass. Ladies' and misses' dresses. Serial No. 485,179; Nov. 20. Class 39.

System Service Company, Paterson, N. J. Type cleaning fluid and typewriter platen surface cleaner. Serial No. 482,902; Nov. 20. Class 4.

Textron, Incorporated, Providence, R. I. Handbags, cosmetic kits and lingerie cases, etc. Serial No. 484,467; Nov. 20. Class 3.

Thatcher, William C., doing business as Metabs Remedy Company, Columbus, Ohio. Medicinal preparation in tablet form. Serial No. 486,179; Nov. 20. Class 6.

Trent Tube Manufacturing Co., East Troy, Wis. Metal tubing. Serial No. 486,699; Nov. 20. Class 13.

Trutest Laboratories, Inc., Philadelphia, Pa. Storage cabinets. Serial No. 474,739; Nov. 20. Class 32.

Tudor Products, Inc., New York, N. Y. Hand cleaning composition. Serial No. 483,942; Nov. 20. Class 4.

Vadam, Albert H., Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 486,831; Nov. 20. Class 42.

West Virginia Pulp and Paper Company, New York, N. Y. Writing paper, index bristol, and book papers. Serial No. 484,867; Nov. 20. Class 37.

Wilbur-Suchard Chocolate Company, Inc., Borough of Lititz, Pa. Candy and chocolate. Serial No. 479,962; Nov. 20. Class 46.

Willey, Richard, doing business as Popjoy Popcorn Company, Council Bluffs, Iowa. Popped and unpopped popcorn. Serial No. 485,620; Nov. 20. Class 46.

Witco Chemical Company, Chicago, Ill. Polymerized vegetable oil. Serial No. 480,261; Nov. 20. Class 1.

Zenith Radio Corporation, Chicago, Ill. Electric batteries. Serial No. 486,443; Nov. 20. Class 21.

Zion, William B., doing business as Allied Salt & Chemical Co., Boston, Mass. Cleaning preparation. Serial No. 484,993; Nov. 20. Class 4.

# LIST OF REGISTRANTS OF TRADE-MARKS

Adam Hat Stores, Inc., New York, N. Y. Men's hats. 417,818; Nov. 20; Serial No. 447,415; published Jan. 20, 1942. Class 39.

Adam Hat Stores, Inc., New York, N. Y. Men's hats. 417,819; Nov. 20; Serial No. 447,417; published Jan. 20, 1942. Class 39.

Adams Candy Company, Dallas, Tex. Candy. 417,873; Nov. 20; Serial No. 480,941; published Sept. 11, 1945. Class 46.

Adler, Albert, Philadelphia, Pa. Jewelry. 417,939; Nov. 20; Serial No. 483,948; published Sept. 11, 1945. Class 28.

Alexander, Jane, Valley Stream, N. Y. Ladies' and misses' coats, suits, dresses, etc. 417,884; Nov. 20; Serial No. 481,768; published Aug. 21, 1945. Class 39.

Alexander, Jane, Valley Stream, N. Y. Perfume, toilet water, eau de cologne, etc. 417,887; Nov. 20; Serial No. 481,876; published Aug. 28, 1945. Class 6.

Allied Stores Corporation, Wilmington, Del., doing business as "The Bon Marche," Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quakenbush Company, Paterson, N. J. Men's, women's, and children's clothing. 417,825; Nov. 20; Serial No. 469,948; published Sept. 4, 1945. Class 39.



American Crayon Company, The, Sandusky, Ohio. Children's story books. 417,853; Nov. 20; Serial No. 477,864; published Sept. 11, 1945. Class 38.

American Cyanamid & Chemical Corporation, New York, N. Y. Apparatus composed of containers, with piping and control valves and a carrying or supporting rack. 417,977; Nov. 20. Class 23.

American International Publications, Inc., New York, N. Y. Periodical. 417,857; Nov. 20; Serial No. 478,485; published Sept. 4, 1945. Class 38.

American Zyloptic Company, New York, N. Y. Lenses for eyeglasses, goggles, and spectacles, and eyeglass, goggle and spectacle frames, etc. 417,923; Nov. 20; Serial No. 483,417; published Sept. 11, 1945. Class 26.

Angelus Laboratories: *See*—
Brunswick Drug Company.

Aris Gloves, Inc., New York, N. Y. Men's, women's, misses' and children's gloves and mittens. 417,880; Nov. 20; Serial No. 481,451; published Aug. 21, 1945. Class 39.

Autoveyors Limited, Westminister, to British Mechanical Productions Limited, Surrey, England. Combined plug and socket. 199,014; renewed June 2, 1945. O. G. Nov. 20. Class 21.

Ayres, Sarah A., Los Angeles, Calif. Poly-vitamin product. 417,846; Nov. 20; Serial No. 476,130; published Sept. 4, 1945. Class 6.

Ben-Hur Products, Inc.: *See*—
Joannes Corporation.

Berger, Herman, doing business as Standard Pharmaceutical Co., New York, N. Y. Medicinal preparation. 417,842; Nov. 20; Serial No. 474,944; published April 24, 1945. Class 6.

Berger, Herman, doing business as Standard Pharmaceutical Co., New York, N. Y. Hemostatic preparations. 417,933; Nov. 20; Serial No. 483,758; published Aug. 28, 1945. Class 6.

Black, Howard, doing business as Howard Black Cherry Co., Traverse City, Mich. Fresh cherries, canned cherries, and cherries preserved in syrups. 417,847; Nov. 20; Serial No. 476,188; published Sept. 11, 1945. Class 46.

Black, Howard, Cherry Co.: *See*—
Black, Howard.

Blake, Irene: *See*—
Blake, Irene, Cosmetics, Inc.

Blake, Irene, Cosmetics, Inc., doing business as Irene Blake, New York, N. Y. Cologne. 417,892; Nov. 20; Serial No. 482,133; published Sept. 4, 1945. Class 6.

Bliss, C. A.: *See*—
Williams, Mastin L.

Bliss & Laughlin, Incorporated, Harvey, Ill. Cold-worked steels. 417,981; Nov. 20. Class 14.

Bloomsburg Mills, Inc., New York, N. Y. Textile fabrics of rayon, silk, or combinations thereof. 417,964; Nov. 20. Class 42.

Boaz, Clyde A.: *See*—
Hollingsworth, William.

"Bon Marche, The": *See*—
Allied Stores Corporation.

Bonwit Teller, Inc., New York, N. Y. Perfumes. 417,876; Nov. 20; Serial No. 481,261; published June 26, 1945. Class 6.

Borden Company, The, New York, N. Y. Powdered modified milk. 417,947; Nov. 20; Serial No. 484,555; published Sept. 4, 1945. Class 46.

Boston Drug & Chemical Co., doing business as Prince Toiletries, Boston, Mass. After-shaving lotion, cologne and shampoo. 417,934; Nov. 20; Serial No. 483,761; published Sept. 4, 1945. Class 6.

Bourbeuse Shoe Company, Union, Mo. Women's and girls' shoes. 417,823; Nov. 20; Serial No. 467,485; published Aug. 21, 1945. Class 39.

Bourland, James C., Houston, Tex. Vegetable compound. 208,105; renewed Jan. 19, 1945. O. G. Nov. 20. Class 6.

Brightwater Paper Company, Dover, Del., and Adams, Mass. Writing paper. 417,841; Nov. 20; Serial No. 474,777; published Sept. 11, 1945. Class 37.

British Mechanical Productions Limited: *See*—
Autoveyors Limited.

Brunswig Drug Company, also doing business as Angelus Laboratories, Los Angeles, Calif. Mouth wash. 417,929; Nov. 20; Serial No. 483,649; published Sept. 14, 1945. Class 6.

Bryant, F. W., doing business as The F. W. Bryant Company, Hanover, N. J. Outer garments. 417,960; Nov. 20. Class 39.

Bryant, F. W., Company, The: *See*—
Bryant, F. W.

Budd, Edward G., Manufacturing Company, Philadelphia, Pa. Automobile bodies. 202,909; renewed Sept. 8, 1945. O. G. Nov. 20. Class 19.

Burke & James, Inc., Chicago, Ill. Sensitized photographic paper, sensitized photographic plates, and sensitized films. 417,833; Nov. 20; Serial No. 472,315; published Sept. 11, 1945. Class 26.

Burnham's, Margaret, Inc., Oakland, Calif. Candy. 417,972; Nov. 20. Class 46.

Buxton, Incorporated, Springfield, Mass. Key cases, purses, billfolds, etc. 417,984; Nov. 20. Class 3.

C-Z Chemical Company, Beloit, Wis. Spray oil and polish. 417,867; Nov. 20; Serial No. 479,770; published Sept. 11, 1945. Class 16.

Carlay Co., The: *See*—
Futter, Carl A.

Case-Swayne Company, Merced, Calif. Prepared fruit products. 417,969; Nov. 20. Class 46.

Catalina, Inc.: *See*—
Catalina Knitting Mills.

Catalina Knitting Mills, Los Angeles, Calif., now by change of name Catalina, Inc. Men's, women's and children's sportwear. 417,845; Nov. 20; Serial No. 475,897; published Sept. 4, 1945. Class 39.

Cheney Brothers, Manchester, Conn. Neckties. 417,828; Nov. 20; Serial No. 470,704; published Aug. 28, 1945. Class 39.

Clearite Products, Inc., New York, N. Y. Plastic cigarette cases. 417,982; Nov. 20. Class 8.

Colorado Milling & Elevator Company, The: *See*—
Pocatello Flour Mills Company, The.

Columbia Protektosite Co., Inc., Carlstadt, N. J. Plastic toy furniture and kitchen utensils. 417,855; Nov. 20; Serial No. 478,267; published Mar. 20, 1945. Class 22.

Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. 417,890; Nov. 20; Serial No. 482,093; published Aug. 21, 1945. Class 39.

Consolidated Millinery Company, Chicago, Ill. Women's hats. 417,844; Nov. 20; Serial No. 474,994; published Aug. 28, 1945. Class 39.

Cortland Line Company, Inc., Cortland, N. Y. Fishing lines. 417,954; Nov. 20; Serial No. 485,266; published Sept. 11, 1945. Class 22.

Curtis Publishing Company, The, Philadelphia, Pa. Publication. 417,944; Nov. 20; Serial No. 484,394; published Sept. 11, 1945. Class 38.

Dallas Candy Co., Dallas, Tex. Pecan candies. 417,914; Nov. 20; Serial No. 483,054; published Sept. 4, 1945. Class 46.

Darling, W. R., Co., Los Angeles, Calif. Ladies' sport clothing. 417,978; Nov. 20. Class 39.

Dayton Spice Mills Company, The, Dayton, Ohio. Roasted coffee. 46,365; re-renewed Sept. 12, 1945. O. G. Nov. 20. Class 46.

Dayton Spice Mills Company, The, Dayton, Ohio. Baking-powder. 46,366; re-renewed Sept. 12, 1945. O. G. Nov. 20. Class 46.

Defender Photo Supply Co., Inc., Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Light-sensitive dry granulated photographic emulsion. 417,911; Nov. 20; Serial No. 482,924; published Aug. 28, 1945. Class 6.

Detroit Graphite Company, Detroit, Mich. Metal protective paints. 417,905; Nov. 20; Serial No. 482,470; published Sept. 11, 1945. Class 16.

Dey Brothers & Company: *See*—
Allied Stores Corporation.

Dixor, Societe A. Responsabilite Limitee: *See*—
Schoepfer, M.

Doniger, David D., & Co., Inc., New York, N. Y. Combination sets of shirts and slacks for men's and boys' wear. 417,974; Nov. 20. Class 39.

Dormer, Frederic J., New York, N. Y. Apparel for men, women, and children. 417,877; Nov. 20; Serial No. 481,272; published Sept. 4, 1945. Class 39.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Permanent wave solution and a primer. 417,870; Nov. 20; Serial No. 480,442; published Aug. 28, 1945. Class 6.

Du Pont, E. I., de Nemours & Company: *See*—
Defender Photo Supply Co., Inc., assignor.

Duriron Company, Inc., The, Dayton, Ohio. Laboratory equipment particularly such for handling corrosive liquids. 417,872; Nov. 20; Serial No. 480,747; published Sept. 11, 1945. Class 26.

Durr Drug Company, Montgomery, Ala. Sodium bicarbonate, powdered boric acid, flaxseed meal, etc. 208,246; renewed Jan. 19, 1946. O. G. Nov. 20. Class 6.

Estee Bedding Company, Chicago, Ill. Mattresses; box springs; bed springs; upholstered furniture; and pillows. 417,976; Nov. 20. Class 32.

Evergreen Food Products: *See*—
Pompeo, Archie.

Fairchild Brothers and Foster, New York, N. Y. Medicinal preparations of pancreas, thyroid, and stomach glands, etc. 48,682; re-renewed Jan. 9, 1946. O. G. Nov. 20. Class 6.

Fashion Park, Inc., Rochester, N. Y. Coats, vests, pants, and overcoats for men and boys. 417,906–7; Nov. 20; Serial Nos. 482,476–7; published July 10, 1945. Class 39.

Food Trade Journals, Inc., New York, N. Y. Newspaper covering the confectionery business. 417,962; Nov. 20. Class 38.

Forest Products Chemical Company, Memphis, Tenn. Mineral preparation. 417,824; Nov. 20; Serial No. 469,390; published Apr. 3, 1945. Class 6.

Fowler, Garland E., Albuquerque, N. Mex. Men's and ladies' suits, slacks, overcoats, and sport coats. 417,913; Nov. 20; Serial No. 482,984; published Sept. 4, 1945. Class 39.

Freydberg Bros.-Strauss, Inc., Stamford, Conn., and New York, N. Y. Thread coated with cellulosic material. 417,955; Nov. 20; Serial No. 485,274; published Aug. 28, 1945. Class 43.

Freydberg, G. H. & E., Inc., New York, N. Y. Misses' and children's dresses. 417,858; Nov. 20; Serial No. 478,548; published Sept. 11, 1945. Class 39.

Futter, Carl A., doing business as The Carlay Co., Chicago, Ill. Vitamin preparation. 417,920; Nov. 20; Serial No. 483,312; published Sept. 4, 1945. Class 6.

Geiger, Louis, inc., New York, N. Y. Women's garments. 417,883; Nov. 20; Serial No. 481,741; published Aug. 28, 1945. Class 39.

Geller, Andrew, Shoe Manufacturing Co. Inc., Brooklyn, N. Y. Ladies' shoes. 417,891; Nov. 20; Serial No. 482,101; published Sept. 4, 1945. Class 39.

General Aniline & Film Corporation, New York, N. Y. Chemicals, preparations and compounds thereof used in photographic processes. 417,838; Nov. 20; Serial No. 473,279; published Sept. 4, 1945. Class 6.

General Mills, Inc., Minneapolis, Minn. Prepared flour mix. 417,951–2; Nov. 20; Serial Nos. 485,210–2; published Sept. 11, 1945. Class 46.

Glasser, Charles J., Chicago, Ill. Combination telescope and spectacle. 417,948; Nov. 20; Serial No. 484,781; published Sept. 4, 1945. Class 26.

Goldcraft Portraits, Washington, D. C. Photographs and photographic prints. 417,875; Nov. 20; Serial No. 481,106; published Sept. 11, 1945. Class 38.

Golden Lotus Press, The, Philadelphia, Pa. Periodical magazine issued monthly. 417,940; Nov. 20; Serial No. 483,971; published Sept. 11, 1945. Class 38.

Goldsmith Bros., New York, N. Y. Motor lubricating oil. 417,903; Nov. 20; Serial No. 482,323; published Sept. 4, 1945. Class 15.

Goodyear Rubber Sundries, Inc., New Haven, Conn. Synthetic rubber baby pants. 417,869; Nov. 20; Serial No. 480,287; published Sept. 4, 1945. Class 39.

Graton & Knight Company, Worcester, Mass. Belt dressing. 417,910; Nov. 20; Serial No. 482,838; published Aug. 28, 1945. Class 4.

Gruen Watch Company, The, Cincinnati, Ohio. Bracelets not including watches. 417,938; Nov. 20; Serial No. 483,856; published Sept. 11, 1945. Class 28.

Hagemeyer, Harold P., doing business as Odessa Products, Chicago, Ill. Douche powders and solutions. 417,915; Nov. 20; Serial No. 483,057; published Aug. 28, 1945. Class 6.

Half Moon Bay Growers Association, San Francisco, Calif. Fresh vegetables. 417,860; Nov. 20; Serial No. 478,630; published Sept. 4, 1945. Class 46.

Harrison Steel Castings Co., The, Attica, Ind. Rerailers. 417,980; Nov. 20. Class 14.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. 417,827; Nov. 20; Serial No. 470,447; published Aug. 28, 1945. Class 6.

Hebert, John R., doing business as R. B. Hebert & Son, Lynn, Mass. Liniment. 417,868; Nov. 20; Serial No. 479,797; published Aug. 28, 1945. Class 6.

Hebert, R. B., & Son: *See*—
Hebert, John R.

Hollingsworth, William, doing business as Vigor Tone Sales Company, to Clyde A. Boaz, Fort Worth, Tex. Medicine for the treatment of rheumatism and stomach trouble. 194,894; renewed Feb. 10, 1945. O. G. Nov. 20. Class 6.

Hyland, Clarence M., doing business as Hyland Laboratories, assignor to Hyland Laboratories, Los Angeles, Calif. Normal human plasma, dried; normal human plasma, liquid; normal human serum, etc. 417,834; Nov. 20; Serial No. 472,360; published Feb. 6, 1945. Class 6.

Hyland Laboratories: *See*—
Hyland, Clarence M., assignor.

Interatlantic Trading Corp., New York, N. Y. Watches and parts thereof. 417,935–6; Nov. 20; Serial Nos. 483,824–5; published Sept. 11, 1945. Class 27.

Interchemical Corporation, New York, N. Y. Silver cleaner. 417,871; Nov. 20; Serial No. 480,584; published Aug. 28, 1945. Class 4.

Irish Linen Trade Mark Association Limited, The, Belfast, Ireland. Linen piece goods; tablecloths, napkins, and towels, etc. 417,961; Nov. 20. Class 42.

Irresistible, Inc., New York, N. Y. Hair dressing. 417,965; Nov. 20. Class 6.

Italian Cook Oil Corp., Brooklyn, N. Y. Olive oil. 417,949; Nov. 20; Serial No. 484,956; published Sept. 4, 1945. Class 46.

Jabeson China Co. Inc., New York, N. Y. Ceramic cigarette boxes, ash trays, humidors, and cigar cases. 417,919; Nov. 20; Serial No. 483,269; published Sept. 11, 1945. Class 8.

Joannes Corporation, to Ben-Hur Products, Inc., Los Angeles, Calif. Coffee, tea, spices, and food-flavoring extracts. 207,643; renewed Jan. 5, 1946. O. G. Nov. 20. Class 46.

Kelling Nut Co., The, Chicago, Ill. Salted, candied, and plain nut meats. 417,885; Nov. 20; Serial No. 481,792; published Sept. 11, 1945. Class 46.

Klamkin, Irving, Brooklyn, N. Y. Thermometers. 417,874; Nov. 20; Serial No. 480,991; published Sept. 4, 1945. Class 26.

Kocher, Walter, New York, N. Y. Clocks. 417,930; Nov. 20; Serial No. 483,656; published Sept. 11, 1945. Class 27.

Korona Company: *See*—
Respondek, John E.

Kress, S. H., and Company, New York, N. Y. Soaps. 417,863; Nov. 20; Serial No. 479,241; published Sept. 11, 1945. Class 4.

Krueger, G., Brewing Company: *See*—
Krueger, Gottfried, Brewing Co.

Krueger, Gottfried, Brewing Co., to G. Krueger Brewing Company, Newark, N. J. Malt beverage. 209,234; renewed Jan. 19, 1946. O. G. Nov. 20. Class 48.

L & N Specialties Company, Chicago, Ill. Ladies' handbags. 417,856; Nov. 20; Serial No. 478,457; published Sept. 11, 1945. Class 3.

L & R Organic Products Co., Inc., New York, N. Y. Dyes and dyestuffs. 417,894–901; Nov. 20; Serial Nos. 482,281–8; published Aug. 28, 1945. Class 6.

Latrobe Electric Steel Company, Latrobe, Pa. Steel bars, billets, and forgings. 417,917–18; Nov. 20; Serial Nos. 483,226–7; published Sept. 4, 1945. Class 14.

Lee, Mary, Inc., New York, N. Y. Women's, misses', and girls' dresses, suits, skirts, etc. 417,849; Nov. 20; Serial No. 476,741; published Sept. 11, 1945. Class 39.

Lopez, Fernandes & Co., Cabalguas, Cuba. Cigars. 417,851; Nov. 20; Serial No. 477,024; published Sept. 11, 1945. Class 17.

Mac-O-Lac Paint & Varnish Works, Detroit, Mich. Ready mixed paints, varnishes, and paint enamels and the like. 417,864; Nov. 20; Serial No. 479,293; published Sept. 4, 1945. Class 16.

Maguire Industries, Incorporated, New York, N. Y. Dehydrated and compressed cabbage. 417,973; Nov. 20. Class 46.

Mayflower Dress Co., Inc., New York, N. Y. Ladies' and misses' dresses, blouses, skirts, etc. 417,826; Nov. 20; Serial No. 470,343; published July 18, 1944. Class 39.

McIntosh, Leone, New York, N. Y. Perfumes. 417,850; Nov. 20; Serial No. 476,810; published Aug. 28, 1945. Class 6.

Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece, of cotton, rayon, etc. 417,963; Nov. 20. Class 42.

Mem Company, assignor to Mem Company, New York, N. Y. Toilet water, perfumes, eau de cologne, etc. 417,865; Nov. 20; Serial No. 479,394; published Aug. 28, 1945. Class 6.

Miahati, Inc., New York, N. Y. Perfumes. 417,843; Nov. 20; Serial No. 474,959; published Aug. 28, 1945. Class 6.

Michaelis, Curt, New York, N. Y. Shortening in solid form and of vegetable origin. 417,943; Nov. 20; Serial No. 484,263; published Sept. 4, 1945. Class 46.

Mine and Smelter Supply Company, The, Denver, Colo. Ball and rod mills. 417,959; Nov. 20. Class 23.

Minneapolis Knitting Works, Minneapolis, Minn. Girls' knit underwear. 417,932; Nov. 20; Serial No. 483,732; published Sept. 4, 1945. Class 39.

Monsanto Chemical Company, St. Louis, Mo. Chemicals used in combination with resins and resin dispersions. 417,881; Nov. 20; Serial No. 481,584; published Aug. 28, 1945. Class 6.

Morrison Milling Co., The, Denton, Tex. Wheat flour. 417,941; Nov. 20; Serial No. 484,057; published Sept. 11, 1945. Class 46.

Mother's Choice Products, Inc., Brooklyn, N. Y. Prepared cake mixes, ginger bread mix, muffin mix, etc. 417,839; Nov. 20; Serial No. 473,903; published Sept. 11, 1945. Class 46.

Nardau, Ltd., New York, N. Y. Perfumes, sachets, toilet water, etc. 417,852; Nov. 20; Serial No. 477,788; published Aug. 28, 1945. Class 6.

Newspaper PM, Inc., The, New York, N. Y. Series of cartoons or cartoon strips. 417,945; Nov. 20; Serial No. 484,421; published Sept. 11, 1945. Class 38.

Nichols, John P., Philadelphia, Pa. Mirrors and mirror-frames. 417,829; Nov. 20; Serial No. 470,820; published Sept. 11, 1945. Class 32.

Oakite Products, Inc., New York, N. Y. Cleaning preparations. 417,925; Nov. 20; Serial No. 483,548; published Sept. 11, 1945. Class 4.

Odessa Products: *See*—
Hagemeyer, Harold P.

Old Dutch Industrial Products Co., Inc., Harrison, N. J. Shoe polish, shoe dressing, and shoe waxes. 417,893; Nov. 20; Serial No. 482,176; published Sept. 11, 1945. Class 4.

Packard Dresses Inc., New York, N. Y. Ladies' and misses' dresses, and dress ensembles. 417,966; Nov. 20. Class 39.

Paleos, C. A., Co.: *See*—
Paleos, Christos.

Paleos, Christos, doing business as C. A. Paleos Co., Lowell, Mass. Candy. 417,820; Nov. 20; Serial No. 460,903; published Sept. 4, 1945. Class 46.

Para Ti Corporation, New York, N. Y. Toilet soaps. 417,902; Nov. 20; Serial No. 482,296; published Sept. 11, 1945. Class 4.

Phuton Remedy Co.: *See*—
Williams, Mastin L.



Pierce, S. S., Co., Boston, Mass. Cooling and invigorating lotion. 417,922; Nov. 20; Serial No. 483,383; published Sept. 4, 1945. Class 6.

Pine, Morton S., Co., The, Cleveland, Ohio. General household cleaner. 417,921; Nov. 20; Serial No. 483,339; published Sept. 11, 1945. Class 4.

Pocatello Flour Mills Company, The, Pocatello, Idaho, to The Colorado Milling & Elevator Company, Denver, Colo. Wheat flour. 203,967; renewed Sept. 29, 1945. O. G. Nov. 20. Class 46.

Pompeo, Archie, doing business as Evergreen Food Products, Seattle, Wash. Pickles. 417,946; Nov. 20; Serial No. 484,423; published Sept. 4, 1945. Class 46.

Post Watch Company, New York, N. Y. Horological instruments. 417,862; Nov. 20; Serial No. 481,713; published Sept. 11, 1945. Class 27.

Prince Toiletries: *See*—
Boston Drug & Chemical Co.

Publication Corporation, New York, N. Y. Printed reproductions of photographs, lithographs, woodcuts, etc. 417,958; Nov. 20. Class 38.

Quackenbush Company: *See*—
Allied Stores Corporation.

Quality Art Novelty Co., Inc., Long Island City, N. Y. Greeting cards. 417,926; Nov. 20; Serial No. 483,582; published Sept. 4, 1945. Class 38.

Quality Art Novelty Co., Inc., Long Island City, N. Y. Greeting cards. 417,927; Nov. 20; Serial No. 483,584; published Sept. 4, 1945. Class 38.

Redlands Foothills Growers, Redlands, Calif. Fresh citrus fruit. 417,848; Nov. 20; Serial No. 476,261; published Sept. 4, 1945. Class 46.

Remington Rand Inc., Buffalo, N. Y. Liquid hand cleaner and hand cleaning cream. 417,835; Nov. 20; Serial No. 472,714; published Sept. 4, 1945. Class 4.

Respondek, John E., doing business as Korona Company, Detroit, Mich. Preparation in liquid form for use as a hair tonic. 417,840; Nov. 20; Serial No. 474,509; published Aug. 28, 1945. Class 6.

Royale Briar Pipe Co., New York, N. Y. Smoking pipes. 417,912; Nov. 20; Serial No. 482,953; published Sept. 11, 1945. Class 8.

Saspesia Sulphite Company Ltd., Quebec, Quebec, Canada. Unbleached sulphite pulp. 417,859; Nov. 20; Serial No. 478,580; published Sept. 11, 1945. Class 1.

Schoepfer, M., to Dixor, Societe A Responsabilite Limitee, Paris, France. Perfumes, extracts, toilet water, etc. 172,710; renewed Sept. 11, 1943. O. G. Nov. 20. Class 6.

Scott & Bowne, Bloomfield, N. J. Cough remedy. 417,836; Nov. 20; Serial No. 473,228; published July 17, 1945. Class 6.

Scott & Bowne, Bloomfield, N. J. Skin ointment. 417,837; Nov. 20; Serial No. 473,229; published July 17, 1945. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Dairy, hog, and poultry equipment. 417,822; Nov. 20; Serial No. 465,083; published Sept. 11, 1945. Class 26.

Sepler, Mack, New York, N. Y. Women's outer skirts. 417,888; Nov. 20; Serial No. 482,019; published Sept. 4, 1945. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Analgesic, antibacterial, and antiseptic preparation. 417,937; Nov. 20; Serial No. 483,832; published Sept. 4, 1945. Class 6.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, lacquers, etc. 417,879; Nov. 20; Serial No. 481,440; published Sept. 4, 1945. Class 16.

Southwest Farms, Phoenix, Ariz. Fresh vegetables. 417,908; Nov. 20; Serial No. 482,594; published Sept. 4, 1945. Class 46.

Sowa Chemical Company: *See*—
Sowa, Frank J.

Sowa, Frank J., doing business as Sowa Chemical Company, New York, N. Y. Organo-silicon compounds. 417,830; Nov. 20; Serial No. 470,866; published Sept. 11, 1945. Class 1.

Spaulding Bakeries, Inc., Binghamton, N. Y. Magazine published monthly. 417,931; Nov. 20; Serial No. 483,089; published Sept. 4, 1945. Class 38.

Spinnerin Yarn Co., Inc., New York, N. Y. Yarn made of nylon and wpol and combination thereof. 417,909; Nov. 20; Serial No. 482,654; published Sept. 4, 1945. Class 43.

Spring-Air Company, Holland, Mich. Mattresses and box springs. 417,956; Nov. 20; Serial No. 485,611; published Sept. 11, 1945. Class 32.

Standard Oil Company, Louisville, Ky. Garden hose. 417,947; Nov. 20; Serial No. 485,664; published Sept. 11, 1945. Class 35.

Standard Pharmaceutical Co.: *See*—
Berger, Herman.

Stauffer Chemical Company, San Francisco, Calif. Dry cleaning solvents. 417,886; Nov. 20; Serial No. 481,863; published Aug. 28, 1945. Class 4.

Stauffer Chemical Company, San Francisco, Calif. Agricultural parasiticides. 417,942; Nov. 20; Serial No. 484,219; published Aug. 28, 1945. Class 6.

Stifel, J. L., & Sons, Inc., Wheeling, W. Va. Draperies and curtains. 417,967–8; Nov. 20. Class 42.

Stifel, J. L., & Sons, Inc., Wheeling, W. Va. Draperies and curtains. 417,970; Nov. 20. Class 42.

Stutman, Hyman H., Brighton, Mass. Ladies' and misses' dresses. 417,983; Nov. 20. Class 39.

Tape, Incorporated, Green Bay, Wis. Gummed paper tape. 417,889; Nov. 20; Serial No. 482,024; published Sept. 11, 1945. Class 37.

Thatcher Manufacturing Company, Elmira, N. Y. Glass bottles. 417,950; Nov. 20; Serial No. 485,107; published Sept. 4, 1945. Class 33.

Thompson, Wm. T., doing business as Wm. T. Thompson Co., Los Angeles, Calif. Hormone preparation in tablet form. 417,924; Nov. 20; Serial No. 483,460; published Aug. 28, 1945. Class 6.

Thompson, Wm. T., Co.: *See*—
Thompson, Wm. T.

Tiedemann, Arthur, Kimberly, Wis. Paint-like coating compound. 417,916; Nov. 20; Serial No. 483,193; published Sept. 11, 1945. Class 16.

Tillery Container Co., Kansas City, Mo. Educational toys. 417,854; Nov. 20; Serial No. 477,987; published Sept. 11, 1945. Class 22.

Turco Products, Inc., Los Angeles, Calif. Compounds for cleaning and polishing metals. 417,832; Nov. 20; Serial No. 471,499; published Sept. 11, 1945. Class 4.

U. S. Vitamin Corporation, New York, N. Y. Vitamin products. 417,928; Nov. 20; Serial No. 483,595; published Aug. 28, 1945. Class 6.

V. & E. Manufacturing Co., assignor to V. & E. Manufacturing Co., Pasadena, Calif. Drafting machines. 417,821; Nov. 20; Serial No. 463,962; published Sept. 4, 1945. Class 26.

Vigor Tone Sales Company: *See*—
Hollingsworth, William.

Werber Sportswear Co., Newburgh, N. Y. Men's outdoor leather and cloth lined jackets, and coats, etc. 417,878; Nov. 20; Serial No. 481,395; published Sept. 4, 1945. Class 39.

Werman, A., & Sons, Inc., Brooklyn, N. Y. Shoes for infants. 417,831; Nov. 20; Serial No. 471,011; published Aug. 21, 1945. Class 39.

Wesley Simpson Inc., New York, N. Y. Piece goods of rayon, cotton, and wool. 417,971; Nov. 20. Class 42.

White Swan Uniforms, Inc., Yonkers and New York, N. Y. Nurses' uniforms. 417,975; Nov. 20. Class 39.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 417,866; Nov. 20; Serial No. 479,655; published Sept. 4, 1945. Class 46.

Williams, Mastin L., doing business as Phuton Remedy Co., to C. A. Bliss, Arkansas City, Kans. Liniment. 198,852; renewed May 26, 1945. O. G. Nov. 20. Class 6.

Windsor Wax Co., Inc., Hoboken, N. J. Glass cleaner, upholstery and rug cleaner, etc. 417,979; Nov. 20. Class 4.

York Feather & Down Co., Brooklyn, N. Y. Feathers and down for upholstery and bedding. 417,861–2; Nov. 20; Serial Nos. 478,696–7; published Sept. 11, 1945. Class 1.

Zoned Soap Company, Incorporated, Fort Wayne, Ind. Soap. 417,904; Nov. 20; Serial No. 482,358; published Sept. 11, 1945. Class 4.

## CLASSIFIED LIST OF TRADE-MARKS REGISTERED

### CLASS 1

Feathers and down for upholstery and bedding. York Feather & Down Co. 417,861–2; Nov. 20; Serial Nos. 478,696–7; published Sept. 11, 1945.

Organo-silicon compounds. F. J. Sowa. 417,830; Nov. 20; Serial No. 470,866; published Sept. 11, 1945.

Pulp, Unbleached sulphite. Saspesia Sulphite Company Ltd. 417,859; Nov. 20; Serial No. 478,580; published Sept. 11, 1945.

### CLASS 3

Cases, purses, billfolds, etc., Key. Buxton, Incorporated. 417,984; Nov. 20.

Handbags, Ladies'. L & N Specialties Company. 417,856; Nov. 20; Serial No. 478,457; published Sept. 11, 1945.

### CLASS 4

Cleaner and hand cleaning cream, Liquid hand. Remington Rand Inc. 417,835; Nov. 20; Serial No. 472,714; published Sept. 4, 1945.

Cleaner, General household. Morton S. Pine Co. 417,921; Nov. 20; Serial No. 483,339; published Sept. 11, 1945.

Cleaner, Silver. Interchemical Corporation. 417,871; Nov. 20; Serial No. 480,584; published Aug. 28, 1945.

Cleaner, upholstery and rug cleaner etc., Glass. Windsor Wax Co., Inc. 417,979; Nov. 20.

Cleaning preparations. Oakite Products, Inc. 417,925; Nov. 20; Serial No. 483,548; published Sept. 11, 1945.

Compounds for cleaning and polishing metals. Turco Products, Inc. 417,832; Nov. 20; Serial No. 471,499; published Sept. 11, 1945.
Dressing, Belt. Gruton & Knight Company. 417,910; Nov. 20; Serial No. 482,838; published Aug. 28, 1945.
Polish, shoe dressing and shoe waxes, Shoe. Old Dutch Industrial Products Co., Inc. 417,893; Nov. 20; Serial No. 482,176; published Sept. 11, 1945.
Soap. Zoned Soap Company, Incorporated. 417,904; Nov. 20; Serial No. 482,358; published Sept. 11, 1945.
Soaps. S. H. Kress and Company. 417,863; Nov. 20; Serial No. 479,241; published Sept. 11, 1945.
Soaps, Toilet. Para Ti Corporation. 417,902; Nov. 20; Serial No. 482,296; published Sept. 11, 1945.
Solvents, Dry cleaning. Stauffer Chemical Company. 417,886; Nov. 20; Serial No. 481,863; published Aug. 28, 1945.

CLASS 6

Analgesic, antibacterial and antiseptic preparation. Sharp & Dohme, Incorporated. 417,937; Nov. 20; Serial No. 483,832; published Sept. 4, 1945.
Chemicals, preparations and compounds thereof, used in photographic processes. General Aniline & Film Corporation. 417,838; Nov. 20; Serial No. 473,279; published Sept. 4, 1945.
Chemicals used in combination with resins and resin dispersions. Monsanto Chemical Company. 417,881; Nov. 20; Serial No. 481,584; published Aug. 28, 1945.
Cologne. Irene Blake Cosmetics, Inc. 417,892; Nov. 20; Serial No. 482,133; published Sept. 4, 1945.
Cough remedy. Scott & Bowne. 417,836; Nov. 20; Serial No. 473,228; published July 17, 1945.
Dyes and dyestuffs. L & R Organic Products Co., Inc. 417,894–901; Nov. 20; Serial Nos. 482,281–8; published Aug. 28, 1945.
Hair dressing. Irresistible, Inc. 417,965; Nov. 20.
Hemostatic preparations. H. Berger. 417,933; Nov. 20; Serial No. 483,758; published Aug. 28, 1945.
Hormone preparation in tablet form. W. T. Thompson. 417,924; Nov. 20; Serial No. 483,460; published Aug. 28, 1945.
Liniment. J. R. Hebert. 417,868; Nov. 20; Serial No. 479,797; published Aug. 28, 1945.
Liniment. M. L. Williams. 198,852; renewed May 26, 1945. O. G. Nov. 20.
Lotion, cologne and shampoo, After-shaving. Boston Drug & Chemical Co. 417,934; Nov. 20; Serial No. 483,761; published Sept. 4, 1945.
Lotion, Cooling and invigorating. S. S. Pierce Co. 417,922; Nov. 20; Serial No. 483,383; published Sept. 4, 1945.
Medicinal preparation. H. Berger. 417,842; Nov. 20; Serial No. 474,944; published Apr. 24, 1945.
Medicinal preparation. Charles C. Haskell & Co., Inc. 417,827; Nov. 20; Serial No. 470,447; published Aug. 28, 1945.
Medicinal preparations of pancreas, thyroid, and stomach glands, etc. Fairchild Brothers and Foster. 48,682; re-renewed Jan. 9, 1945. O. G. Nov. 20.
Medicine for the treatment of rheumatism and stomach trouble. W. Hollingsworth. 194,894; renewed Feb. 10, 1945. O. G. Nov. 20.
Mineral preparation. Forest Products Chemical Company. 417,824; Nov. 20; Serial No. 469,390; published Apr. 3, 1945.
Mouth wash. Brunswig Drug Company. 417,929; Nov. 20; Serial No. 483,649; published Sept. 4, 1945.
Ointment, Skin. Scott & Bowne. 417,837; Nov. 20; Serial No. 473,229; published July 17, 1945.
Parasiticides, Agricultural. Stauffer Chemical Company. 417,942; Nov. 20; Serial No. 484,219; published Aug. 28, 1945.
Perfume, toilet water, eau de cologne, etc. J. Alexander. 417,887; Nov. 20; Serial No. 481,876; published Aug. 28, 1945.
Perfumes. Bonwit Teller, Inc. 417,876; Nov. 20; Serial No. 481,261; published June 26, 1945.
Perfumes. L. McIntosh. 417,850; Nov. 20; Serial No. 476,810; published Aug. 28, 1945.
Perfumes. Miahati, Inc. 417,843; Nov. 20; Serial No. 474,959; published Aug. 28, 1945.
Perfumes, extracts, toilet water, etc. M. Schoepfer. 172,710; renewed Sept. 11, 1943. O. G. Nov. 20.
Perfumes, sachets, toilet water, etc. Nardau, Ltd. 417,852; Nov. 20; Serial No. 477,788; published Aug. 28, 1945.
Photographic emulsion, Light-sensitive dry granulated. Defender Photo Supply Co., Inc. 417,911; Nov. 20; Serial No. 482,924; published Aug. 28, 1945.
Plasma, dried, normal human plasma, liquid, normal human serum, etc., Normal human. C. M. Hyland. 417,834; Nov. 20; Serial No. 472,360; published Feb. 6, 1945.
Poly-vitamin product. S. A. Ayres. 417,846; Nov. 20; Serial No. 476,130; published Sept. 4, 1945.
Powders and solutions, Douche. H. P. Hagemeyer. 417,915; Nov. 20; Serial No. 483,057; published Aug. 28, 1945.
Preparation in liquid form for use as a hair tonic. J. E. Respondek. 417,840; Nov. 20; Serial No. 474,509; published Aug. 28, 1945.
Sodium bicarbonate, powdered boric acid, flaxseed meal, etc. Durr Drug Company. 208,246; renewed Jan. 19, 1946. O. G. Nov. 20.
Solution and a primer, Permanent wave. Duart Manufacturing Co., Ltd. 417,870; Nov. 20; Serial No. 480,442; published Aug. 28, 1945.
Toilet water, perfumes, eau de cologne, etc. Mem Company. 417,865; Nov. 20; Serial No. 479,394; published Aug. 28, 1945.
Vegetable compound. J. C. Bourland. 208,105; renewed Jan. 19, 1946. O. G. Nov. 20.
Vitamin preparation. C. A. Futter. 417,920; Nov. 20; Serial No. 483,312; published Sept. 4, 1945.
Vitamin products. U. S. Vitamin Corporation. 417,928; Nov. 20; Serial No. 483,595; published Aug. 28, 1945.

CLASS 8

Boxes, ash trays, humidors and cigar cases, Ceramic cigarette. Jabeson China Co. Inc. 417,919; Nov. 20; Serial No. 483,269; published Sept. 11, 1945.
Cases, Plastic cigarette. Clearite Products, Inc. 417,982; Nov. 20.
Pipes, Smoking. Royale Briar Pipe Co. 417,912; Nov. 20; Serial No. 482,953; published Sept. 11, 1945.

CLASS 14

Rerailers. Harrison Steel Castings Co. 417,980; Nov. 20.
Steel bars, billets, and forgings. Latrobe Electric Steel Company. 417,917–18; Nov. 20; Serial Nos. 483,226–7; published Sept. 4, 1945.
Steels, Cold-worked. Bliss & Laughlin, Incorporated. 417,981; Nov. 20.

CLASS 15

Oil, Motor lubricating. Goldsmith Bros. 417,903; Nov. 20; Serial No. 482,323; published Sept. 4, 1945.

CLASS 16

Coating compound, Paint-like. A. Tiedemann. 417,916; Nov. 20; Serial No. 483,193; published Sept. 11, 1945.
Oil and polish, Spray. C-Z Chemical Company. 417,867; Nov. 20; Serial No. 479,770; published Sept. 11, 1945.
Paints, Metal protective. Detroit Graphite Company. 417,905; Nov. 20; Serial No. 482,470; published Sept. 11, 1945.
Paints, paint enamels, lacquers, etc. Sherwin-Williams Company. 417,879; Nov. 20; Serial No. 481,440; published Sept. 4, 1945.
Paints, varnishes, and paint enamels and the like, Ready mixed. Mac-O-Lac Paint & Varnish Works. 417,864; Nov. 20; Serial No. 479,293; published Sept. 4, 1945.

CLASS 17

Cigars. Fernandez Lopez & Co. 417,851; Nov. 20; Serial No. 477,024; published Sept. 11, 1945.

CLASS 19

Automobile bodies. E. G. Budd Manufacturing Company. 202,909; renewed Sept. 8, 1945. O. G. Nov. 20.

CLASS 21

Plug and socket, Combined. Autoveyors Limited. 199,014; renewed June 2, 1945. O. G. Nov. 20.

CLASS 22

Fishing lines. Cortland Line Company, Inc. 417,954; Nov. 20; Serial No. 485,266; published Sept. 11, 1945.
Toy furniture and kitchen utensils, Plastic. Columbia Protektosite Co., Inc. 417,855; Nov. 20; Serial No. 478,267; published Mar. 20, 1945.
Toys, Educational. Tillery Container Co. 417,854; Nov. 20; Serial No. 477,987; published Sept. 11, 1945.

CLASS 23

Apparatus composed of containers, with piping and control valves and a carrying or supporting rack. American Cyanamid & Chemical Corporation. 417,977; Nov. 20.
Ball and rod mills. Mine and Smelter Supply Company, The. 417,959; Nov. 20.

CLASS 26

Dairy, hog and poultry equipment. Sears, Roebuck and Co. 417,822; Nov. 20; Serial No. 465,083; published Sept. 11, 1945.
Drafting machines. V. & E. Manufacturing Co. 417,821; Nov. 20; Serial No. 463,962; published Sept. 4, 1945.
Laboratory equipment particularly such for handling corrosive liquids. Duriron Company, Inc. 417,872; Nov. 20; Serial No. 480,747; published Sept. 11, 1945.
Lenses for eyeglasses, goggles, and spectacles, and eyeglass, goggle and spectacle frames, etc. American Zyloptic Company. 417,923; Nov. 20; Serial No. 483,417; published Sept. 11, 1945.
Photographic paper, sensitized photographic plates, and sensitized films, Sensitized. Burke & James, Inc. 417,833; Nov. 20; Serial No. 472,315; published Sept. 11, 1945.



Telescope and spectacle, Combination. C. J. Glasser. 417,948; Nov. 20; Serial No. 484,781; published Sept. 4, 1945.
Thermometers. I. Klamkin. 417,874; Nov. 20; Serial No. 480,991; published Sept. 4, 1945.

CLASS 27

Clocks. W. Kocher. 417,930; Nov. 20; Serial No. 483,656; published Sept. 11, 1945.
Horological instruments. Post Watch Company. 417,882; Nov. 20; Serial No. 481,713; published Sept. 11, 1945.
Watches and parts thereof. Interatlantic Trading Corp. 417,935–6; Nov. 20; Serial Nos. 483,824–5; published Sept. 11, 1945.

CLASS 28

Bracelets not including watches. Gruen Watch Company. 417,938; Nov. 20; Serial No. 483,856; published Sept. 11, 1945.
Jewelry. A. Adler. 417,939; Nov. 20; Serial No. 483,948; published Sept. 11, 1945.

CLASS 32

Mirrors and mirror-frames. J. P. Nichols. 417,829; Nov. 20; Serial No. 470,820; published Sept. 11, 1945.
Mattresses and box springs. Spring-Air Company. 417,956; Nov. 20; Serial No. 485,611; published Sept. 11, 1945.
Mattresses; box springs; bed springs, upholstered furniture; and pillows. Estee Bedding Company. 417,976; Nov. 20.

CLASS 33

Bottles, Glass. Thatcher Manufacturing Company. 417,950; Nov. 20; Serial No. 485,107; published Sept. 4, 1945.

CLASS 35

Hose, Garden. Standard Oil Company. 417,957; Nov. 20; Serial No. 485,664; published Sept. 11, 1945.

CLASS 37

Paper, Writing. Brightwater Paper Company. 417,841; Nov. 20; Serial No. 474,777; published Sept. 11, 1945.
Tape, Gummed paper. Tape, Incorporated. 417,889; Nov. 20; Serial No. 482,024; published Sept. 11, 1945.

CLASS 38

Books, Children's story. American Crayon Company. 417,853; Nov. 20; Serial No. 477,864; published Sept. 11, 1945.
Cards, Greeting. Quality Art Novelty Co., Inc. 417,926; Nov. 20; Serial No. 483,582; published Sept. 4, 1945.
Cards, Greeting. Quality Art Novelty Co., Inc. 417,927; Nov. 20; Serial No. 483,584; published Sept. 4, 1945.
Cartoons or cartoon strips, Series of. Newspaper PM, Inc. 417,945; Nov. 20; Serial No. 484,421; published Sept. 11, 1945.
Magazine issued monthly, Periodical. Golden Lotus Press. 417,940; Nov. 20; Serial No. 483,971; published Sept. 11, 1945.
Magazine published monthly. Spaulding Bakeries, Inc. 417,931; Nov. 20; Serial No. 483,699; published Sept. 4, 1945.
Newspaper covering the confectionery business. Food Trade Journals, Inc. 417,962; Nov. 20.
Periodical. American International Publications, Inc. 417,857; Nov. 20; Serial No. 478,485; published Sept. 4, 1945.
Photographs and photographic prints. Goldcraft Portraits. 417,875; Nov. 20; Serial No. 481,108; published Sept. 11, 1945.
Photographs, lithographs, woodcuts, etc., Printed reproductions of. Publication Corporation. 417,958; Nov. 20.
Publication. Curtis Publishing Company. 417,944; Nov. 20; Serial No. 484,394; published Sept. 11, 1945.

CLASS 39

Apparel for men, women, and children. F. J. Dorner. 417,877; Nov. 20; Serial No. 481,272; published Sept. 4, 1945.
Clothing, Men's, women's and children's. Allied Stores Corporation. 417,825; Nov. 20; Serial No. 469,948; published Sept. 4, 1945.
Coats, suits, dresses, etc., Ladies' and misses'. J. Alexander. 417,884; Nov. 20; Serial No. 481,768; published Aug. 21, 1945.
Coats, vests, pants, and overcoats for men and boys. Fashion Park, Inc. 417,906–7; Nov. 20; Serial Nos. 482,476–7; published July 10, 1945.
Dresses, and dress ensembles, Ladies' and misses'. Packard Dresses Inc. 417,966; Nov. 20.
Dresses, blouses, skirts, etc., Ladies' and misses'. Mayflower Dress Co. 417,826; Nov. 20; Serial No. 470,343; published July 18, 1944.
Dresses, Ladies' and misses'. H. H. Stutman. 417,983; Nov. 20.
Dresses, Misses' and children's. G. H. & E. Freydberg, Inc. 417,858; Nov. 20; Serial No. 478,548; published Sept. 11, 1945.
Dresses, suits, skirts, etc., Women's, misses' and girls'. Mary Lee, Inc. 417,849; Nov. 20; Serial No. 476,741; published Sept. 11, 1945.
Garments, Outer. F. W. Bryant. 417,960; Nov. 20.
Garments, Women's. Louis Geiger, Inc. 417,883; Nov. 20; Serial No. 481,741; published Aug. 28, 1945.
Gloves and mittens. Aris Gloves, Inc. 417,880; Nov. 20; Serial No. 481,451; published Aug. 21, 1945.
Hats, Men's. Adam Hat Stores, Inc. 417,818; Nov. 20; Serial No. 447,415; published Jan. 20, 1942.
Hats, Men's. Adam Hat Stores, Inc. 417,819; Nov. 20; Serial No. 447,417; published Jan. 20, 1942.
Hats, Women's. Consolidated Millinery Company. 417,844; Nov. 20; Serial No. 474,994; published Aug. 28, 1945.
Jackets, and coats, etc., Men's outdoor leather and cloth lined. Werber Sportswear Co. 417,878; Nov. 20; Serial No. 481,395; published Sept. 4, 1945.
Neckties. Cheney Brothers. 417,828; Nov. 20; Serial No. 470,704; published Aug. 28, 1945.
Pants, Synthetic rubber baby. Goodyear Rubber Sundries, Inc. 417,869; Nov. 20; Serial No. 480,287; published Sept. 4, 1945.
Shirts and slacks for men's and boys' wear, Combination sets of. David D. Doniger & Co. Inc. 417,974; Nov. 20.
Shoes for infants. A. Werman & Sons, Inc. 417,831; Nov. 20; Serial No. 471,011; published Aug. 21, 1945.
Shoes, Ladies. Andrew Geller Shoe Manufacturing. 417,891; Nov. 20; Serial No. 482,101; published Sept. 4, 1945.
Shoes, Men's. Commonwealth Shoe and Leather Company. 417,890; Nov. 20; Serial No. 482,093; published Aug. 21, 1945.
Shoes, Women's and girls'. Bourbouse Shoe Company. 417,823; Nov. 20; Serial No. 467,485; published Aug. 21, 1945.
Skirts, Women's outer. M. Sepler. 417,888; Nov. 20; Serial No. 482,019; published Sept. 4, 1945.
Sport clothing, Ladies'. W. R. Darling Co. 417,978; Nov 20.
Sportswear, Men's, Women's and children's. Catalina Knitting Mills. 417,845; Nov. 20; Serial No. 475,897; published Sept. 4, 1945.
Suits, slacks, overcoats, and sport coats, Men's and ladies'. G. E. Fowler. 417,913; Nov. 20; Serial No. 482,084; published Sept. 4, 1945.
Underwear, Girls' knit. Minneapolis Knitting Works. 417,932, Nov. 20; Serial No. 483,732; published Sept. 4, 1945.
Uniforms, Nurses'. White Swan Uniforms, Inc. 417,975; Nov. 20.

CLASS 42

Draperies and curtains. J. L. Stifel & Sons, Inc. 417,967–8; Nov. 20.
Draperies and curtains. J. L. Stifel & Sons, Inc. 417,970; Nov. 20.
Linen piece goods; tablecloths, napkins, and towels, etc. Irish Linen Trade Mark Association Limited. 417,961; Nov. 20.
Piece goods of rayon, cotton, and wool. Wesley Simpson Inc. 417,971; Nov. 20.
Textile fabrics in the piece, of cotton, rayon, etc. Meadtex Fabrics Co. 417,963; Nov. 20.
Textile fabrics of rayon, silk, or combinations thereof. Bloomsburg Mills, Inc. 417,964; Nov. 20.

CLASS 43

Thread coated with cellulosic material. Freydberg Bros.-Strauss, Inc. 417,955; Nov. 20; Serial No. 485,274; published Aug. 28, 1945.
Yarn made of nylon and wool and combinations thereof. Spinnerin Yarn Co., Inc. 417,909 Nov. 20; Serial No. 482,654; published Sept. 4, 1945.

CLASS 46

Baking-powder. The Dayton Spice Mills Company. 46,366; re-renewed Sept. 12, 1945. O. G. Nov. 20.
Cake mixes, ginger bread mix, muffin mix, etc., Prepared. Mother's Choice Products, Inc. 417,839; Nov. 20; Serial No. 473,903; published Sept. 11, 1945.
Candies, Pecan. Dallas Candy Co. 417,914; Nov. 20; Serial No. 483,054; published Sept. 4, 1945.
Candy. Adams Candy Company. 417,873; Nov. 20; Serial No. 480,941; published Sept. 11, 1945.
Candy. Margaret Burnham's, Inc. 417,972; Nov. 20.
Candy. C. Paleos. 417,820; Nov. 20; Serial No. 460,903; published Sept. 4, 1945.
Candy. Stephen F. Whitman & Son, Inc. 417,866; Nov. 20; Serial No. 479,655; published Sept. 4, 1945.
Cherries, canned cherries, and cherries preserved in syrups, Fresh. H. Black. 417,847; Nov. 20; Serial No. 476,188; published Sept. 11, 1945.
Coffee, Roasted. The Dayton Spice Mills Company. 46,365; re-renewed Sept. 12, 1945. O. G. Nov. 20.
Coffee, tea, spices, and food-flavoring extracts. Joannes Corporation. 207,643; renewed Jan. 5, 1945. O. G. Nov. 20.
Dehydrated and compressed cabbage. Maguire Industries, Incorporated. 417,973; Nov. 20.

Flour mix, Prepared. General Mills, Inc. 417,951–3; Nov. 20; Serial Nos. 485,210–12; published Sept. 11, 1945.
Flour, Wheat. Morrison Milling Co. 417,941; Nov. 20; Serial No. 484,057; published Sept. 11, 1945.
Flour, Wheat. Pocatello Flour Mills Company, The. 203,967; renewed Sept. 29, 1945. O. G. Nov. 20.
Fruit, Fresh citrus. Redlands Foothills Groves. 417,848; Nov. 20; Serial No. 476,261; published Sept. 4, 1945.
Fruit products, Prepared. Case-Swayne Company. 417,969; Nov. 20.
Milk, Powdered modified. Borden Company. 417,947; Nov. 20; Serial No. 484,555; published Sept. 4, 1945.
Nut meats, Salted, candied, and plain. Kelling Nut Co. 417,885; Nov. 20; Serial No. 481,792; published Sept. 11, 1945.
Oil, Olive. Italian Cook Oil Corp. 417,949; Nov. 20; Serial No. 484,956; published Sept. 4, 1945.
Pickles. A. Pompeo. 417,946; Nov. 20; Serial No. 484,423; published Sept. 4, 1945.
Shortening in solid form and of vegetable origin. C. Michaelis. 417,943; Nov. 20; Serial No. 484,265; published Sept. 4, 1945.
Vegetables, Fresh. Half Moon Bay Growers Association. 417,860; Nov. 20; Serial No. 478,630; published Sept. 4, 1945.
Vegetables, Fresh. Southwest Farms. 417,908; Nov. 20; Serial No. 482,304; published Sept. 4, 1945.

CLASS 48

Malt beverage. Gottfried Krueger Brewing Co. 209,234; renewed Jan. 19, 1946. O. G. Nov. 20.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lindsay, Harvey B., Evanston, assignor to Lindsay & Lindsay, Chicago, Ill. Prefabricated structure for containers and the like. Re. 22,693; Nov. 20.
Lindsay & Lindsay: *See*—
Lindsay, Harvey B., assignor.
Winter, Ireal A., Birmingham, Ala. Automatic stoker. Re. 22,694; Nov. 20.

# LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc.: *See*—
Lammerts, Walter E., assignor.
Lammerts, Walter E., West Los Angeles, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Peach tree. 661; Nov. 20.

# LIST OF DESIGN PATENTEES

Acosta, Edna M., Los Angeles, Calif. Combined shoe sole and heel. 142,929; Nov. 20.
Adler, Daniel A., Glendale, Calif. Hair comb. 142,930; Nov. 20.
Alvin Corporation, The: *See*—
Price, James R., assignor.
American Cabinet Hardware Corporation: *See*—
Borchers, Earl M., assignor.
Bailey, Harry J., assignor of one-half to C. C. Ciresc, Chicago, Ill. Tire tool. 142,931; Nov. 20.
Baker, Lonnie G., Loraine, assignor of fifty per cent to R. Bridgewater, Sweetwater, Tex. Toy. 142,932; Nov. 20.
Barker, Raymond L., Chicago, Ill. Hair dressing appliance. 142,933; Nov. 20.
Barrett, Altina and E., Hollywood, Calif. Spectacle frame. 142,934; Nov. 20.
Barrett, Altina and E., Hollywood, Calif. Spectacle frame. 142,935; Nov. 20.
Barrett, Eric: *See*—
Barrett, Altina and E.
Bellsey, David, New York, N. Y. Coat. 142,936; Nov. 20.
Bellsey, David, New York, N. Y. Coat. 142,937; Nov. 20.
Bellsey, David, New York, N. Y. Coat. 142,938; Nov. 20.
Benbow, Hugh S., Long Beach, Calif. Bracelet. 142,939; Nov. 20.
Benbow, Hugh S., Long Beach, Calif. Bracelet. 142,940; Nov. 20.
Benbow, Hugh S., Long Beach, Calif. Bracelet. 142,941; Nov. 20.
Boeing Airplane Company: *See*—
Weining, Earl O., assignor.
Borchers, Earl M., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Drawer pull. 142,942; Nov. 20.
Borchers, Earl M., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Drawer pull. 142,943; Nov. 20.
Borchers, Earl M., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Door pull. 142,944; Nov. 20.
Borchers, Earl M., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Catch handle. 142,945; Nov. 20.
Bridgewater, Roy: *See*—
Baker, Lonnie G., assignor.
Burleigh, Richard J., Vallejo, Calif. Draftsman's welding symbol template. 142,946; Nov. 20.
Cain, Ervin J., Milwaukee, Wis. Combined bottle holder and warmer. 142,947; Nov. 20.
Ciresc, Charles C.: *See*—
Bailey, Harry J., assignor.
Clem, Adrian D., Sioux City, Iowa. Game board or the like. 142,948; Nov. 20.
Dobkin, Israel, Pittsburgh, Pa. Combined door check and deodorant diffuser. 142,949; Nov. 20.
Dudas, Vincent, Cleveland, Ohio, assignor to A. Varga. Safety razor. 142,950; Nov. 20.
Elkhart Brass Manufacturing Company: *See*—
Hansen, Edward H., assignor.
Eureka Vacuum Cleaner Company: *See*—
Walker, G. W., and Ornas, assignors.
Walker, G. W., and Wittke, assignors.
Finkelstein, Nathan, New York, N. Y. Jacket. 142,951; Nov. 20.
Ford, Jack L., Los Angeles, Calif. Merchandise rack or the like. 142,952; Nov. 20.
Golden, Zelma, New York, N. Y. Jacket. 142,953; Nov. 20.
Hansen, Edward H., assignor to Elkhart Brass Manufacturing Company, Elkhart, Ind. Fire extinguisher. 142,954; Nov. 20.
Kaiser, Robert A.: *See*—
Kartveli, A., and Kaiser, assignors.
Kartveli, Alexander, Huntington Station, and R. A. Kaiser, Bayside, Long Island, N. Y., assignors to Republic Aviation Corporation. Airplane. 142,955; Nov. 20.
Lederer, George J., assignor to Providence Stock Company, Providence, R. I. Bracelet. 142,956; Nov. 20.
Lederer, George J., assignor to Providence Stock Company, Providence, R. I. Bracelet. 142,957; Nov. 20.
Lederer, George J., assignor to Providence Stock Company, Providence, R. I. Bracelet. 142,958; Nov. 20.
Lee, Bert, Sacramento, assignor to Bert Lee Laboratories, Inc., Beverly Hills, Calif. Fan propeller. 142,959; Nov. 20.
Lee, Bert, Sacramento, assignor to Bert Lee Laboratories, Inc., Beverly Hills, Calif. Fan propeller. 142,960; Nov. 20.
Lee, Bert, Laboratories, Inc.: *See*—
Lee, Bert, assignor.
Lelong, Lucien, Inc.: *See*—
Norman, Emile, assignor.
Lynn, Robert M., Pasadena, Calif. Gun sight. 142,961; Nov. 20.
Miller, Ruth, New York, N. Y. Playing card holder or similar article. 142,962; Nov. 20.
Morrow, Frank, Johnston, R. I. Earring. 142,963; Nov. 20.
New, Eunice, formerly Dennice New, South Jacksonville, Fla. Bell toy. 142,964; Nov. 20.
Norman, Emile, El Monte, Calif., assignor to Lucien Lelong, Inc., Chicago, Ill. Cap for lipstick holder or the like. 142,965; Nov. 20.
Ornas, Theodore: *See*—
Walker, G. W., and Ornas, assignors.
Powell, Frank, Miami, Fla. Figurine or similar article. 142,966; Nov. 20.
Price, James R., Cranston, assignor to The Alvin Corporation, Providence, R. I. Fork or other article of flatware. 142,967; Nov. 20.
Providence Stock Company: *See*—
Lederer, George J., assignor.
Republic Aviation Corporation: *See*—
Kartveli, A., and Kaiser, assignors.
Royals, Junius F., Godwin, N. C. Weather vane. 142,968; Nov. 20.
Rubel, John, New York, N. Y. Necklace or similar article. 142,969; Nov. 20.
Rubel, John, New York, N. Y. Necklace. 142,970; Nov. 20.
Schell, Edward, Machias, N. Y. Game board. 142,971; Nov. 20.
Scott Aviation Corporation: *See*—
Young, Theodore F., assignor.

Varga, A.: *See*—
Dudas, Vincent, assignor.

Walker, George W., Pleasant Ridge, and T. Ornas, Birmingham, assignors to Eureka Vacuum Cleaner Company, Detroit, Mich. Vacuum cleaner casing. 142,972; Nov. 20.

Walker, George W., Pleasant Ridge, and K. H. Wittke, Berkley, assignors to Eureka Vacuum Cleaner Company, Detroit, Mich. Vacuum cleaner casing. 142,973; Nov. 20.

Weining, Earl O., assignor to Boeing Airplane Company, Wichita, Kans. Cockpit canopy or similar article. 142,974; Nov. 20.

Wittke, Kurt H.: *See*—
Walker, G. W., and Wittke, assignors.

Young, Theodore F., Attica, assignor to Scott Aviation Corporation, Lancaster, N. Y. Wheel with bracket mounting. 142,975; Nov. 20.

Young, Theodore F., Attica, assignor to Scott Aviation Corporation, Lancaster, N. Y. Airplane tail wheel. 142,976; Nov. 20.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aasland, John L., Moline, Ill., assignor to International Harvester Company. Corn picker. 2,389,478; Nov. 20.

Agriculture, the United States of America, as represented by the Secretary of: *See*—
Gertler, Samuel I., assignor.

Air Reduction Company, Incorporated: *See*—
Place, Leonard H., assignor.

Ajax Engineering Corporation: *See*—
Tama, Manuel and M., assignors.

Alcorn, Arnold S.: *See*—
Gagnon, T. J., and Alcorn.

Alien Property Custodian: *See*—
Tholstrup, Poul.

Allied Laboratories, Inc.: *See*—
Winnek, P. S., and Bockstahler, assignors.

Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Method and apparatus for contacting finely divided solid particles with fluids. 2,389,399; Nov. 20.

Aluminum Company of America: *See*—
Lyle, Edward L., assignor.
Wood, R. T., and Gants, assignors.

American Car and Foundry Company: *See*—
Maulding, Arthur W., assignor.

American Cyanamid Company: *See*—
Dean, R. T., and Hook, assignors.
Jayne, D. W., Jr., and Day, assignors.

American Laundry Machinery Company, The: *See*—
Preston, John E., assignor.

American Machine and Foundry Company: *See*—
Johnson, Carl W., assignor.

American Optical Company: *See*—
Guellich, Gustav E., assignor.
Guellich, G. E., and Gradisar, assignors.
Keeler, N. H., and Eskelson, assignors.
Kerry, John R., assignor.
Peck, W. F., and Guellich, assignors.

American Viscose Corporation: *See*—
Castellan, Carl A., assignor.

Ampat Corp.: *See*—
Hajos, Eugene, assignor.

Anderson, Andreas, Wellesley Hills, Mass. Electrical connector. 2,389,115; Nov. 20.

Anderson, James A., Jr., Goose Creek, Tex., assignor to Standard Oil Development Company. Production of aviation gasoline. 2,389,176; Nov. 20.

Anderson, James M., Broomall, Pa., assignor to General Electric Company. Locking mechanism for electric switches. 2,389,400; Nov. 20.

Anderson, John: *See*—
Ross, W. E., McAllister, and Anderson.

Anderson, Leslie J., Indianapolis, Ind., assignor to Radio Corporation of America. Automatically detonated projectile. 2,389,288; Nov. 20.

Andreasson, Rudolf W., Detroit, Mich. Mechanism for relieving the teeth of circular cutting elements. 2,389,401; Nov. 20.

Andrews, Norman F., assignor to Deere & Company, Moline, Ill. Husking mechanism. 2,389,402; Nov. 20.

Anthony Company: *See*—
Wachter, Lester W., assignor.

Armington, Raymond Q., Shaker Heights, assignor to The Euclid Road Machinery Co., Euclid, Ohio. Brake for crawler track. 2,389,289; Nov. 20.

Arnold, Violet, Detroit, Mich. Method and apparatus for removing hair from the human body. 2,389,403; Nov. 20.

Aro Equipment Corporation, The: *See*—
Satterlee, Howard A., assignor.

Artistic Foundations, Inc.: *See*—
Butow, Abe M., assignor.

Ash, Charles S., Milford, Mich. Dual wheel assembly. 2,389,339; Nov. 20.

Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Thread controlling device for sewing machines. 2,389,124; Nov. 20.

Aspenleiter, Joseph W., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 2,389,116; Nov. 20.

Auer, Frederick G.: *See*—
Crane, E. V., and Auer.

Austin, Chester R.: *See*—
Pavlish, A. E., and Austin.

Austin, Edwin C., et al., trustees: *See*—
Gieger, William A., assignor.

Austin, Ernest C., Los Angeles, Calif. Fastening device. 2,389,479; Nov. 20.



Automatic Electric Laboratories, Inc.: *See*—
Bakker, Pier, assignor.
Horlacher, Albert F., assignor.
Rayner, T. R., and Burns, assignors.
Willis, Bernard D., assignor.

Automotive Products Company Limited: *See*—
Gates, Geoffrey R. G., assignor.

Aveco, Incorporated: *See*—
Kellogg, W. D., and Fradenburgh, assignors.

Back, M. F., et al., trustees: *See*—
Geiger, William A., assignor.

Bailey, Lawrence H.: *See*—
Stokes, F. J., Jr., and Bailey.

Baker, Leonard, Hilladale, N. J., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet feeding apparatus. 2,389,480; Nov. 20.

Baker Perkins Limited: *See*—
Pointon, John E., assignor.

Bakker, Pier, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Telephone system. 2,389,290; Nov. 20.

Balduf, Bruno E., assignor to United States Gypsum Company, Chicago, Ill. Building structure. 2,389,573; Nov. 20.

Ball, Charles F., assignor to Joy Manufacturing Company, Franklin, Pa. Winch. 2,389,177; Nov. 20.

Ballard, Kermit H.: *See*—
Deyrup, A. J., Ballard, and Strickars.

Bambas, Louis L., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Therapeutically useful sulphones and their preparation. 2,389,126; Nov. 20.

Bambas, Louis L., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Sulphones and preparing same. 2,389,127; Nov. 20.

Bambas, Louis L., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Sulphones and preparing same. 2,389,128; Nov. 20.

Banta, James J.: *See*—
McKinney, E. L., and Banta.

Barge, Raymond H., Mineola, N. Y., assignor to Pittsburgh Equitable Meter Company, Homewood, Pittsburgh, Pa. Fluid meter. 2,389,125; Nov. 20.

Barker, Seth S., Ottumwa, Iowa. Method of and apparatus for defeathering fowls. 2,389,404; Nov. 20.

Barnes, Fern A., et al: *See*—
Tyzzer, Howard J., assignor.

Barnes, Harold E., et al.: *See*—
Tyzzer, Howard J., assignor.

Bateman, James R., Hatfield, England. Adjustable holder for electric lamps and the like purposes. 2,389,340; Nov. 20.

Bausch & Lomb Optical Company: *See*—
Aspenleiter, Joseph W., assignor.
Flint, Edward F., assignor.
Gallasch, George B., assignor.
Stegeman, Raymond F. E., assignor.

Bazner, Eugene, Providence, R. I. Safety attaching means for ear and like ornaments. 2,389,481; Nov. 20.

Behrens, Herbert C., Haddon Heights, assignor to Samuel M. Langston Co., Camden, N. J. Speed control mechanism for cutoffs. 2,389,341; Nov. 20.

Bell Telephone Laboratories, Incorporated: *See*—
Dowey, Thomas L., assignor.
Murphy, Edward J., assignor.

Benander, George B., Oaklawn, R. I., assignor to Monowatt Electric Corporation. Electrical connector. 2,389,455; Nov. 20.

Benedict, Wayne L.: *See*—
Mattox, W. J., and Benedict.

Bensel-Brice Corporation: *See*—
Bensel, Duryea, assignor.

Bensel, Duryea, assignor to Bensel-Brice Corporation, Los Angeles, Calif. Retort for packaged food. 2,389,117; Nov. 20.

Bergmann, Ernst: *See*—
Friedheim, E. A. H., and Bergmann.

Bergstein, Frank D., et al., trustees: *See*—
Bergstein, Robert M., assignor.

Bergstein, Robert M., Cincinnati, Ohio, assignor to R. M. and F. D. Bergstein, trustees. Carton with removable liner. 2,389,291; Nov. 20.

Bettendorf Company, The: *See*—
Leppla, Rudolph, assignor.

Birchfield, Roy E., Shreveport, La. Hydraulic brake. 2,389,405; Nov. 20.

Bishop, Joseph H., Dayton, Ohio. Universal screw driver. 2,389,129; Nov. 20.

Bixler, Myron, Philadelphia, Pa. Carboy handling apparatus. 2,389,482; Nov. 20.

Bjorksten, Johan, Chicago, Ill. Preparation of protein compositions and masses having improved physical characteristics. 2,389,292; Nov. 20.

Bliss, E. W., Company: *See*—
Crane, E. V., and Auer, assignors.

Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Separator. 2,389,130; Nov. 20.

Bloch, Herman S.: *See*—
Pines, H., and Bloch.

Bloch, Herman S., Riverside, and B. K. Schaad, assignors to Universal Oil Products Company, Chicago, Ill. Production of olefinic hydrocarbons. 2,389,406; Nov. 20.

Bloom, Mortimer C., Newton Highlands, Mass. Electrodeposition of antimony. 2,389,131; Nov. 20.

Blosser, John A., Oakland, Calif. Inhalant hood. 2,389,293; Nov. 20.

Blount, Harry, Baltimore, and F. A. Coldehoff, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for vulcanizing articles. 2,389,178; Nov. 20.

Blumer, Donald R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating hydrocarbons. 2,389,230; Nov. 20.

Blumer, Donald R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Converting organic halides. 2,389,231; Nov. 20.

Bobrowski, Henry and W., Morris, Manitoba, Canada. Reversible grain conveyer assembly. 2,389,483; Nov. 20.

Bobrowski, Wilhelm: *See*—
Bobrowski, Henry and W.

Bocjl Corporation: *See*—
Lang, Joseph C., assignor.

Bockstahler, Earl R.: *See*—
Winnek, P. S., and Bockstahler.

Boden, Ernest G., assignor to The Timken Roller Bearing Company, Canton, Ohio. Automotive driving axle construction. 2,389,484; Nov. 20.

Bolas, John Thomas, assignor to The Bristol Aeroplane Company Limited, Bristol, England. Milling and like machine for copying and reproducing. 2,389,407; Nov. 20.

Borgelt, Elmer H., Dayton, Ohio. Attaching electrical conductors to glider tow ropes. 2,389,132; Nov. 20.

Bowser, S. F., & Company, Incorporated: *See*—
Farrell, Lawrence S., assignor.

Boyd, Albert W., Detroit, Mich. Attachment for typewriting machines. 2,389,408; Nov. 20.

Boyd, John: *See*—
Hagg, A. C., and Boyd.

Brassert, H. A., & Company: *See*—
Brassert, H. A., and Ramseyer, assignors.

Brassert, Herman A., Washington, and C. F. Ramseyer, Old Greenwich, Conn., assignors to H. A. Brassert & Company, New York, N. Y. Apparatus for reduction of metallic material. 2,389,123; Nov. 20.

Breman, Joseph B.: *See*—
Moynihan, John J., assignor.

Bristol Aeroplane Company Limited, The: *See*—
Bolas, John T., assignor.

British Celanese Limited: *See*—
Drewitt, James G. N., assignor.

Brown, Clyde A., assignor to The Dole Valve Company, Chicago, Ill. Flow control valve. 2,389,134; Nov. 20.

Brown, Fred: *See*—
Tone, F. J., Mahlman, and Brown.

Brown, Henry, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of metals. 2,389,135; Nov. 20.

Brown, Henry, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of metals. 2,389,179; Nov. 20.

Brown, Henry, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of metals. 2,389,180; Nov. 20.

Brown, Henry, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of metals. 2,389,181; Nov. 20.

Bruns, Anthony C., Cincinnati, assignor to The Palmer Company, Norwood, Ohio. Thermometer case. 2,389,485; Nov. 20.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Mixed esters containing the dihydroxoardicyclopentadiene ring system. 2,389,136; Nov. 20.

Brzeski, John, Toronto, Ontario, Canada. Painting machine. 2,389,409; Nov. 20.

Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Drive axle. 2,389,137; Nov. 20.

Buehner, Howard A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Pressure vessel closure. 2,389,118; Nov. 20.

Burke, Edward W., Mahopac, assignor to Pulmosan Safety Equipment Corporation, Brooklyn, N. Y. Carboy truck. 2,389,294; Nov. 20.

Burns, George A.: *See*—
Rayner, T. R., and Burns.

Butow, Abe M., assignor to Artistic Foundations, Inc., New York, N. Y. Foundation garment. 2,389,410; Nov. 20.

Cadieux, Eudore, Letellier, Manitoba, Canada. Root harvesting machine. 2,389,411; Nov. 20.

California Cotton Mills Company: *See*—
Olsen, B. A., Combs, and Nelson, assignors.

California Research Corporation: *See*—
Leyda, Frank A., assignor.

Campbell, Erwin A.: *See*—
Woolslayer, H. J., Campbell, and Jenkins.

Cantor, Sidney M., Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y. Production of dextrose. 2,389,185; Nov. 20.

Carborundum Company, The: *See*—
Smith, Robert L., assignor.
Tone, F. J., Mahlman, and Brown, assignors.

Carlton, Frank, Los Angeles, Calif. Antibackflow and antisiphonage valve. 2,389,412; Nov. 20.

Carlton, Frank, Los Angeles, Calif. Preventing backflow or back-siphonage in a pressure system. 2,389,413; Nov. 20.

Carnegie-Illinois Steel Corporation: *See*—
Gat, John D., assignor.
Wells, J. H., and Wilson, assignors.

Castellan, Carl A., assignor to American Viscose Corporation, Wilmington, Del. Textile and making same. 2,389,120; Nov. 20.

Celanese Corporation of America: *See*—
Dreyfus, Henry, assignor.
Haney, C. I., Martin, and McGeury, assignors.

Chase, George C., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing calculator. 2,389,182; Nov. 20.

Chermow, Michael, New York, N. Y. Earring clip 2,389,295; Nov. 20.

Chrysler Corporation: *See*—
La Brie, Ludger E., assignor.
Livar, Allen P., assignor.
Miller, Russell L., assignor.
Staley, Allen C., assignor.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Shiftable cowl fastener device. 2,389,121; Nov. 20.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Tension nut device. 2,389,122; Nov. 20.

Clark Equipment Company: *See*—
Lapsley, Robert, assignor.

Clark, Robert H.: *See*—
Owen, Robert G., assignor.

Clifford Manufacturing Co.: *See*—
Woods, John E., assignor.

Clow, James B., & Sons: *See*—
Smotzer, Michael C., assignor.

Coldehoff, Ferdinand A.: *See*—
Blount, H., and Coldehoff.

Colgate-Palmolive-Peet Company: *See*—
Davey, Warren, assignor.
Kirschenbauer, Hans G., assignor.
Turck, J. A. V., Jr., and Ross, assignors.

Colony, Donald G.: *See*—
Colony, John M., assignor.

Colony, John K.: *See*—
Colony, John M., assignor.

Colony, John M., deceased, West Newton; M. W. Colony, executrix, assignor to D. G. Colony, Cambridge, and J. K. Colony, Newton, Mass. Homogenizing machine. 2,389,486; Nov. 20.

Colony, Margaret W., executrix: *See*—
Colony, John M.

Combs, Elisha T.: *See*—
Olsen, B. A., Combs, and Nelson.

Commercial Controls Corporation: *See*—
Ryan, Commodore D., assignor.

Cone, Charles N., assignor to M and M Wood Working Company, Portland, Oreg. Producing weather-resistant glue bond. 2,389,183; Nov. 20.

Conlon, John W., Granby, Conn. Oscillating or reversing mechanism. 2,389,232; Nov. 20.

Conn, Miller W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic dehydrogenation. 2,389,342; Nov. 20.

Connor, Roger, assignor to The McBee Company, Athens, Ohio. Card sorting machine. 2,389,343; Nov. 20.

Constance, Alvin, Carsonville, Mo. Retaining device. 2,389,344; Nov. 20.

Continental Can Company, Inc.: *See*—
O'Brien, Frank J., assignor.

Cooke, John P., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Clamping and securing device. 2,389,184; Nov. 20.

Coombs, Preston W.: *See*—
Ott, H. S., and Coombs.

Cordiano, Hugo V., J. J. De Paolo, and H. Lacks, New York, N. Y. Pneumatic hammer testing machine. 2,389,138; Nov. 20.

Corn Products Refining Company: *See*—
Cantor, Sidney M., assignor.

Corning Glass Works: *See*—
Guyer, E. M., Littleton, and Shaw, assignors.





Cowles, Irving, Detroit, Mich., assignor of seventy per cent to himself and thirty per cent to R. W. Lots, Chicago, Ill. Coupling seal for flanged tubing conduits. 2,389,233; Nov. 20.

Cramer, Stanley S., Haddon Heights, N. J. Tuning structure for radio sets. 2,389,487; Nov. 20.

Crane, Edward V., and F. G. Auer, assignors to E. W. Bliss Company, Brooklyn, N. Y. Square plug flanger. 2,389,139; Nov. 20.

Crane, Everett E., Seattle, Wash. Tool support. 2,389,296; Nov. 20.

Crawford, Arthur R.: *See*—
Nickis, L. E., and Crawford.

Crevatin, Gilio: *See*—
Crevatin, V., G., W., and M.

Crevatin, Mario: *See*—
Crevatin, V., G., W., and M.

Crevatin, Vasco, G., W., and M., Sao Paulo, Brazil. Valve. 2,389,297; Nov. 20.

Crevatin, Waldemar: *See*—
Crevatin, V., G., W., and M.

Crofut, William E., Jr., Beachwood Village, Ohio. Foot cover. 2,389,414; Nov. 20.

Crompton & Knowles Loom Works: *See*—
Turner, Richard G., assignor.

Curry, Robert S., Jr.: *See*—
Fragola, C. F., Depp, and Curry.
Lane, A. W., and Curry.

Dailey, William H., Jr., Library, Pa. Agitation of pickling baths. 2,389,488; Nov. 20.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of the modified urea-aldehyde type. 2,389,415; Nov. 20.

D'Alelio, Gaetano F., Northampton, Mass., assignor to General Electric Company. Compounds produced from salts of sulphamic acid and their preparation. 2,389,416; Nov. 20.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and triazine derivatives. 2,389,417; Nov. 20.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Plywood structures and related articles and making the same. 2,389,418; Nov. 20.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car truck. 2,389,123; Nov. 20.

Davey, Warren, Montclair, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Reaction process. 2,389,246; Nov. 20.

Day, Harold M.: *See*—
Jayne, D. W., Jr., and Day.

Dean, Russell T., Stamford, and R. O. Hook, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Plasticized compositions. 2,389,489; Nov. 20.

De Becze, George: *See*—
Liebmann, A. J., and de Becze.

De Cardy, Otto, Chicago, Ill., assignor to The Beyer Corporation. Locking device. 2,389,424; Nov. 20.

Deere & Company: *See*—
Andrews, Norman F., assignor.

Dell, James A., and H. E. Hobby, assignors to Simplex Time Recorder Co., Gardner, Mass. Card time recorder. 2,389,345; Nov. 20.

Denault, Clinton L., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,389,346; Nov. 20.

De Paolo, Joseph J.: *See*—
Cordiano, H. V., De Paolo, and Lacks.

Depp, Marlin C.: *See*—
Fragola, C. F., Depp, and Curry.

Detroit Lubricator Company: *See*—
Landon, Walter S., assignor.

Dettle, Lawrence E.: *See*—
Rochols, D. C., Dettle, and Trisman.

Dewey and Almy Chemical Company: *See*—
McMordie, S., and Peterson, assignees.

Dexter Folder Company: *See*—
Bakes, Leonard, assignor.

Deyrup, Alden, Westfield, K. H. Ballard, Perth Amboy, and J. J. Strekzars, Swarens, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of electrical capacitors. 2,389,419; Nov. 20.

Deyrup, Alden J., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of capacitors. 2,389,420; Nov. 20.

Dick, Herbert L., Barrington, assignor to Tested Appliance Company, Chicago, Ill. Apparatus for the purification of water. 2,389,155; Nov. 20.

Dinnick, George M.: *See*—
Mouromtseff, I. E., and Dinnick.

Dixon, Keith E.: *See*—
Thompson, R. K., and Dixon.

Dodenhoff, William D.: *See*—
Kottemann, Otto A., assignor.

Dodge, Adiel Y., Rockford, Ill. Transmission. 2,389,186; Nov. 20.

Dole Valve Company, The: *See*—
Brown, Clyde A., assignor.

Douglas, Louis M.: *See*—
Signer, J. U., and Douglas.

Dowey, Thomas L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call transmitter. 2,389,247; Nov. 20.

Dewrkit, James G. N., London, W. 1, assignor to British Celanese Limited, London, England. Oxidation of organic compounds. 2,389,187; Nov. 20.

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Manufacture of polyhydric alcohols. 2,389,347; Nov. 20.

Dugas, Joseph J., assignor to Higgins Industries, Inc., New Orleans, La. Transmission device. 2,389,490; Nov. 20.

Dunlap, Ralph L. and R. J. Schutz, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Abrasive articles. 2,389,491; Nov. 20.

Du Pont, E. I., de Nemours & Company: *See*—
Deyrup, Alden J., assignor.
Deyrup, A. J., Ballard, and Strickars, assignors.
Kirby, J. E., and Woodward, assignors.
Pitman, Earle C., assignor.

Dustin, Ralph C., Claremont, N. H., assignor to Sullivan Machinery Company. Pump control system. 2,389,348; Nov. 20.

Dutton-Lainson Company: *See*—
Lainson, H., and Semotan, assignors.

Dye, James H., Bainbridge, Ga. Turnbuckle wrench. 2,389,245; Nov. 20.

Eastman, Harold, Fort Washington, assignor of one-half to G. Lasher, Great Neck, N. Y. Support or brace. 2,389,349; Nov. 20.

Edelstein, Sidney M., Elizabeth, N. J. Treated fabric and making. 2,389,421; Nov. 20.

Edwards, Herbert C., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Fuel injector. 2,389,492; Nov. 20.

Einson-Freeman Co., Inc.: *See*—
Horr, John V., assignor.

Electrolux Corporation: *See*—
Karlstrom, Robert, assignor.

Ellis, Robert, Belleville, N. J. Apparel fastener. 2,389,293; Nov. 20.

Ellis, Robert, Belleville, N. J. Apparel closure. 2,389,299; Nov. 20.

Emery Industries, Inc.: *See*—
Fitzpatrick, J. D., and Myers, assignors.

Enblom, John C., Minneapolis, Minn. Air cleaner equipped filler tube. 2,389,140; Nov. 20.

Endsley, Louis E., Pittsburgh, Pa., assignor to The Frost Railway Supply Co., Detroit, Mich. Friction spring. 2,389,300; Nov. 20.

Engelhardt, Carl F., Yeadon, assignor to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring. 2,389,141; Nov. 20.

Escher, Charles, Jersey City, N. J. Screw-top jar wrench. 2,389,301; Nov. 20.

Esdale, Harry J., Union, N. J. Drill. 2,389,188; Nov. 30.

Eskelson, Herbert J.: *See*—
Keeler, N. H., and Eskelson.

Esval, Orland E., Merrick, and W. Wrigley, Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyro-stabilized sextant. 2,389,142; Nov. 20.

Esval, Orland E., Huntington, and W. Wrigley, East Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Sextant. 2,389,143; Nov. 20.

Euclid Road Machinery Co., The: *See*—
Armington, Raymond O., assignor.

Evans, Cyril H., Cleethorpes, assignor to Spillers Limited, London, England. Treatment of insect-damaged wheat. 2,389,302; Nov. 20.

Evans, Joe, Heflin, Ala. Cultivator. 2,389,422; Nov. 20.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for the conversion of hydrocarbons. 2,389,493; Nov. 20.

Evans, Theodore W., Oakland, and R. C. Morris, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Separation of hydrocarbons. 2,389,144; Nov. 20.

Evans, Vere R., Bemidji, Minn. Fishing lure. 2,389,423; Nov. 20.

Exner, Donald W., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Limit switch. 2,389,350; Nov. 20.

Farnsworth Television & Radio Corporation: *See*—
Halstead, William S., assignor.

Farrell, Lawrence S., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Portable filter. 2,389,189; Nov. 20.

Faulk, Donald P., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic full cycle timing control. 2,389,351; Nov. 20.

Fechheimer, Paul E.: *See*—
Hallead, M., and Fechheimer.

Felder, Mathias, Madison, Ind. Gutter hanger. 2,389,494; Nov. 20.

Fellows Gear Shaper Company, The: *See*—
Ross, Walter P., assignee.

Fermier, George P., assignor to Reed Roller Bit Company, Houston, Tex. Testing means. 2,389,190; Nov. 20.

Field, Dean: *See*—
Huiquist, Edward M., assignor.
Fisher, Elbert E., St. Louis, Mo. Aluminum silicate product and making same. 2,389,352; Nov. 20.
Fitzpatrick, J. D., and L. D. Myers, assignors to Emery Industries, Inc., Cincinnati, Ohio. Separation process. 2,389,191; Nov. 20.
Flint, Edward F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Calculating device. 2,389,249; Nov. 20.
Food Machinery Corporation: *See*—
Thompson, Albert R., assignor.
Forslund, Gustav J., Chicago, Ill. Lettering-guide holder. 2,389,303; Nov. 20.
Forssell, Eric G., Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Film holder. 2,389,495; Nov. 20.
Fortescue, Richard L., London, S. W. 12, assignor to Standard Telephones and Cables Limited, and Marconi's Wireless Telegraph Company, Limited, London, England. Thermionic valve apparatus. 2,389,145; Nov. 20.
Foss, Henry O., Tacoma, Wash. Floating dock. 2,389,353; Nov. 20.
Foster Wheeler Corporation: *See*—
Blizard, John, assignor.
Fradenburgh, John: *See*—
Kellogg, W. D., and Fradenburgh.
Fragola, Caesar F., Brooklyn, M. C. Depp, Hempstead, and R. S. Curry, Jr., Baldwin, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Flux valve. 2,389,146; Nov. 20.
Francis, Alfred W., Woodbury, N. J., and W. H. James, State College, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Isomerization. 2,389,250; Nov. 20.
Franz, Raymond A., Wallingford, Pa., assignor to The United Gas Improvement Company. Removing impurities from unsaturated hydrocarbons by means of organometallic compounds. 2,389,251; Nov. 20.
French Oil Mill Machinery Company, The: *See*—
Stacy, Thomas F., assignor.
Friedheim, Ernst A. H., New York, N. Y., and E. Bergmann, Rehovoth, Palestine. 4' methoxy 5 halogeno diphenylamino 2' carboxyl compound and producing the same. 2,389,147; Nov. 20.
Friedland, Al, Lawrence, N. Y. Garment. 2,389,192; Nov. 20.
Frost, Earl R., assignor to The National Machinery Company, Tiffin, Ohio. Method and apparatus for forging. 2,389,425; Nov. 20.
Frost Railway Supply Co., The: *See*—
Endsley, Louis E., assignor.
Fry, Eugene M., Jr.: *See*—
Ludl, W. C., and Fry.
Gagnon, Thomas J., East Hartford, and A. S. Alcorn, Granby, assignors to Hartford-Empire Company, Hartford, Conn. Apparatus for conveying and arranging bottles, jars, cans, or the like. 2,389,496; Nov. 20.
Gallasch, George B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. 2,389,252; Nov. 20.
Gantz, Marvin E.: *See*—
Wood, R. T., and Gantz.
Gardner-Richardson Company, The: *See*—
Ringler, William A., assignor.
Gat, John D., Edgewood, Pa., assignor to Carnegie-Illinois Steel Corporation. Production of electrical silicon steel. 2,389,497; Nov. 20.
Gates, Geoffrey R. G., assignor of one-half to Automotive Products Company Limited, Leamington, Spa, England. Steering mechanism for motor road vehicles. 2,389,498; Nov. 20.
Gatke, Thomas L., Oak Park, Ill. Bearing. 2,389,253; Nov. 20.
Geffner, Samuel H., New York, N. Y. Key container. 2,389,426; Nov. 20.
Geiger, William A., assignor to W. P. Sidley, M. F. Back, A. P. Withall, E. C. Austin, and G. A. Johnson, Chicago, Ill., and A. T. Miner, Chazy, N. Y., trustees of the William H. Miner Foundation. Shock absorber. 2,389,304; Nov. 20.
General Cable Corporation: *See*—
Graham, Robert C., assignor.
General Electric Company: *See*—
Anderson, James M., assignor.
D'Alello, Gaetano F., assignor.
D'Alello, G. F., and Underwood, assignors.
Goodwin, Raymond W., assignor.
Middel, Hendrik D., assignor.
Wright, J. G. E., and Matsden, assignors.
General Motors Corporation: *See*—
Kucher, Andrew A., assignor.
McCormack, Alex A., assignor.
McKinney, E. L., and Banta, assignors.
Olson, T. A., and Klopak, assignors.
Schwarz, Bertram A., assignor.
General Tire & Rubber Company, The: *See*—
Remark, I. J., and Wheeler, assignors.
Gertler, Samuel I., Washington, D. C., assignor to the United States of America, as represented by the Secretary of Agriculture. Insect repellents. 2,389,427; Nov. 20.
Glasser, Charles J., Chicago, Ill. Combined spectacle and telescope. 2,389,428; Nov. 20.
Gloor, Walter E., New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del. Cellulose ether composition. 2,389,354; Nov. 20.
Goland, Philip P., and C. R. Drew, Washington, D. C., assignors of two-fifths to said Goland, two-fifths to said Drew, as trustees, and one-fifth to A. D. Kessler. Surgical needle. 2,389,355; Nov. 20.
Goldman, Maurice A., New Brunswick, N. J., assignor, by mesne assignments, to Saco-Lowell Shops, Biddeford, Maine. Manufacture of paper. 2,389,254; Nov. 20.
Goldstine, Hallan E., Rocky Point, N. Y., assignor to Radio Corporation of America. Reduction of selective fading. 2,389,356; Nov. 20.
Goodrich, B. F., Company, The: *See*—
Hunter, Willson H., assignor.
Goodwin, Raymond W., Cleveland Heights, Ohio, assignor to General Electric Company. Glass composition. 2,389,305; Nov. 20.
Gordon, Ronald A., New York, N. Y. Roll for typewriters. 2,389,499; Nov. 20.
Goshorn, Roland H., Trenton, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of amines. 2,389,500; Nov. 20.
Gradisar, Albin A.: *See*—
Guellich, G. E., and Gradisar.
Graham, Robert C., Rome, assignor to General Cable Corporation, New York, N. Y. Connector. 2,389,255; Nov. 20.
Graves, Earl C., Trowbridge, Calif. Supplemental feed for drapers. 2,389,193; Nov. 20.
Grebow, Wolfe, Baltimore, Md. Arch supporter shoe. 2,389,148; Nov. 20.
Green, Walter H., Batavia, assignor to Infilco Incorporated, Chicago, Ill. Sewage comminutor. 2,389,306; Nov. 20.
Greene, Marcus: *See*—
Silverman, E. E., Greene, and Greenspan.
Greenspan, Seymour: *See*—
Silverman, E. E., Greene, and Greenspan.
Griffith, Llewellyn B., Austin, Tex. System of sewage clarification and sludge removal. 2,389,357; Nov. 20.
Grimth, William B., Stone Harbor, N. J. Thermostat. 2,389,429; Nov. 20.
Griffoul, Henry M., San Jose, Calif. Magnesium melting furnace. 2,389,307; Nov. 20.
Grisdale, George W., Jr.: *See*—
Paroz, P. N., and Grisdale.
Griswold, Glenn G., and F. J. Lee, East Los Angeles, assignors to J. L. Hull, Los Angeles, Calif. Fire extinguisher. 2,389,501; Nov. 20.
Griswold, Glenn G., and F. J. Lee, East Los Angeles, assignors to J. L. Hull, Los Angeles, Calif. Fire extinguisher. 2,389,502; Nov. 20.
Gross, Fred E., Lonoke, Ark. Fuse packing box. 2,389,358; Nov. 20.
Grove, Collins D., Joliette, Quebec, Canada. Convertible wheel endless drive mechanism. 2,389,308; Nov. 20.
Grow, Harlow B., Freeport, N. Y. Pilot instructing device. 2,389,359; Nov. 20.
Guellich, Gustav E., and A. A. Gradisar, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical device. 2,389,503; Nov. 20.
Guellich, Gustav E., Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Making reticles or the like. 2,389,504; Nov. 20.
Guellich, Gustav E.: *See*—
Peck, W. F., and Guellich.
Guyer, Edwin M., J. T. Littleton, and M. R. Shaw, Jr., assignors to Corning Glass Works, Corning, N. Y. Double glazed window and manufacture. 2,389,360; Nov. 20.
Hagg, Arthur C., Wilkinsburg, and J. Boyd, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamometer. 2,389,361; Nov. 20.
Hajos, Eugene, Jamaica, assignor to Ampat Corp., New York, N. Y. Resilient tire and the like. 2,389,430; Nov. 20.
Hall, John R., Chicago, Ill., assignor to International Harvester Company. Grinding mill. 2,389,505; Nov. 20.
Hallead, Mervil, Detroit, Mich., and P. R. Fechheimer, assignors to The Karl Kiefer Machine Company, Cincinnati, Ohio. Folding the ends of collapsible tubes. 2,389,506; Nov. 20.
Hallinan, William W., Mendota, Ill. Filter. 2,389,431; Nov. 20.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch locating and transfer mechanism. 2,389,256; Nov. 20.
Halstead, William S., Huntington, N. Y., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Fort Wayne, Ind. Carrier wave signaling system. 2,389,257; Nov. 20.
Hamer, Leland S., Long Beach, Calif. Valve. 2,389,194; Nov. 20.
Hamilton Watch Company: *See*—
Paroz, P. N., and Grisdale, assignors.





Haney, Clifford I., Greenwich, Conn., M. E. Martin, and T. E. McGoury, Cumberland, Md., assignors to Celanese Corporation of America. Treatment of wood. 2,389,195; Nov. 20.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Communication system by pulses through the earth. 2,389,432; Nov. 20.
Hansen, Klaus L., Milwaukee, Wis. Commutation means for rotary rectifiers. 2,389,507; Nov. 20.
Hanson, Edna: *See*—
Nelson, Clarence D., assignor.
Harmon, Alvah L., Royal Oak, Mich. Swimming paddle. 2,389,196; Nov. 20.
Harper, Agnes M. N., Jacksonville, Fla. Baby bathing cot. 2,389,362; Nov. 20.
Harris Products Company: *See*—
Storch, Harold A., assignor.
Harrison, Robert T., Greenville, N. C. Road sign or signal. 2,389,234; Nov. 20.
Harrison, William C., Rapid City, S. Dak. Rotary milling tool. 2,389,235; Nov. 20.
Hartford-Empire Company: *See*—
Gagnon, T. J., and Alcorn, assignors.
Hein, Carl C., Forest Hills, and John W. Stevenhagen, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Copper oxide rectifier. 2,389,363; Nov. 20.
Hejduk, Arthur A., assignor to The Meriam Instrument Company, Cleveland, Ohio. Manometer. 2,389,508; Nov. 20.
Hellman, Sallye, Jamaica, N. Y. Window and improved construction therefor. 2,389,509; Nov. 20.
Hercules Powder Company: *See*—
Gloor, Walter E., assignor.
Koch, William W., assignor.
Sanford, Arthur H., assignor.
Herzmark, Nicolas, Indianapolis, Ind. Regenerating exhaled air. 2,389,309; Nov. 20.
Hess, Louis F., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Air inlet. 2,389,310; Nov. 20.
Heyer Corporation, The: *See*—
De Cardy, Otto, assignor.
Higgins Industries, Inc.: *See*—
Dugas, Joseph J., assignor.
Hilton, George, Northbridge, Mass., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Harness for cross-weaving. 2,389,258; Nov. 20.
Hinde & Dauch Paper Company, The: *See*—
Skell, Herbert C., assignor.
Hirschman, Frederick A.: *See*—
Hirschman, Harry J. and F. A.
Hirschman, Harry J. and F. A., Rock Hill Village, Mo. Brake. 2,389,311; Nov. 20.
Hitchcock, Rex B., Evanston, Ill., assignor to International Harvester Company. Baling press. 2,389,510; Nov. 20.
Hobby, Harold E.: *See*—
Dell, J. A., and Hobby.
Holgate Brothers Company: *See*—
Townsley, Fredle, assignor.
Holley, Earl, et al.: *See*—
Thompson, R. K., and Dixon, assignors.
Holley, George M., et al.: *See*—
Thompson, R. K., and Dixon, assignors.
Homsa, Charles R., Bethel, Kans. Coin display holder. 2,389,312; Nov. 20.
Hook, Edwin O.: *See*—
Dean, R. T., and Hook.
Hoover Company, The: *See*—
Kitto, William H., assignor.
Horlacher, Albert F., Palatine, Ill., assignor to Automatic Electric Laboratorics, Inc. Push button. 2,389,259; Nov. 20.
Horr, John V., North Tarrytown, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Display device. 2,389,511; Nov. 20.
Hough, Earl B., Detroit, Mich. Heating, drying, and air conditioning apparatus. 2,389,433; Nov. 20.
Houston Oxygen Company: *See*—
Loewenstern, Walter, assignor.
Hoyles, Louis: *See*—
Imhof, A. G., and Hoyles.
Huck, Alfred J., assignor to Knapp-Monarch Company, St. Louis, Mo. Timer for toasters and the like. 2,389,434; Nov. 20.
Hull, J. Leonard: *See*—
Griswold, G. G. and Lee, assignors.
Hulquist, Edward M., assignor to D. Field, Dallas, Tex. Utility cart. 2,389,574; Nov. 20.
Humason, Granville A., Houston, Tex. Tester for wells. 2,389,512; Nov. 20.
Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Shield assembly for air scoops or the like. 2,389,313; Nov. 20.
Hyde, John B., Great Neck, N. Y. Anchor for ground supports. 2,389,149; Nov. 20.
Ilford Limited: *See*—
Kendall, John D., assignor.
Imhof, Alfred G., London, and L. Hoyles, Stanmore, England; said Hoyles assignor to said Imhof. Portable tool. 2,389,314; Nov. 20.
Imperial Chemical Industries Limited: *See*—
Walmesley, Robert A., assignor.
Infilco Incorporated: *See*—
Green, Walter H., assignor.
Ingersoll-Rand Company: *See*—
McConaghy, James W., assignor.
Sellars, Oliver H., assignor.
Slater, Fred M., assignor.
International Cigar Machinery Company: *See*—
Halstead, John F., assignor.
International Harvester Company: *See*—
Aasland, John L., assignor.
Hall, John R., assignor.
Hitchcock, Rex B., assignor.
Messenger, R. P., Kaupke, and Raney, assignors.
Nickla, L. E., and Crawford, assignors.
International Standard Electric Corporation: *See*—
Smyth, Charles N., assignor.
Jackson, Carey B.: *See*—
Wieczorek, G. A., Jr., and Jackson.
James, William H.: *See*—
Francis, A. W., and James.
Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Aldehyde condensation products and producing the same. 2,389,150; Nov. 20.
Jenkins, Cecil: *See*—
Woolslayer, H. J., Campbell, and Jenkins.
Jenks, Harold C., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,389,364; Nov. 20.
Johns-Manville Corporation: *See*—
Rinehart, Harry H., assignor.
Johnson, Carl W., Brooklyn, N. Y., assignor to American Machine and Foundry Company. Special stitch sewing machine. 2,389,151; Nov. 20.
Johnson, George A., et al., trustees: *See*—
Geiger, William A., assignor.
Johnson, Keith W., Washington, D. C. Balancing toy. 2,389,365; Nov. 20.
Jones, Alvin J., assignor to Landis Tool Company, Waynesboro, Pa. Chuck. 2,389,366; Nov. 20.
Joy Manufacturing Company: *See*—
Ball, Charles F., assignor.
Kalva Venders, Inc.: *See*—
Larimore, Harvey T., assignor.
Karlström, Robert, Stockholm, Sweden, assignor to Electrolux Corporation, Old Greenwich, Conn. Filter material. 2,389,435; Nov. 20.
Kaupke, Lee H.: *See*—
Messenger, R. P., Kaupke, and Raney.
Kearney, Kenneth O., St. Louis, Mo., assignor to Penn Electric Switch Co., Goshen, Ind. Differential widening means for control structures. 2,389,436; Nov. 20.
Keeler, Nelson H., Southbridge, and H. J. Eskelson, Charlton, assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Protection garment. 2,389,152; Nov. 20.
Keller, Frank E., Wichita, Kans. Rivet set forming tool. 2,389,197; Nov. 20.
Kellogg, William D. and J. Fradenburgh, Amsterdam, N. Y., assignors to Aveco, Incorporated. Knitting machine. 2,389,154; Nov. 20.
Kemp, Lebbeus C., Jr., Scarsdale, assignor to The Texas Company, New York, N. Y. Lubricating composition. 2,389,513; Nov. 20.
Kendall, John D., assignor to Ilford Limited, Ilford, England. Manufacture of trithio ortho esters of carboxylic acids. 2,389,153; Nov. 20.
Kennedy, Raymond A., Sioux City, Iowa. Spring motor driven generator. 2,389,514; Nov. 20.
Kent, Henry, Englewood, N. J. Flint alloy. 2,389,198; Nov. 20.
Kerr, Robert, Detroit, Mich. Release device for safety roof exits. 2,389,315; Nov. 20.
Kerry, John R., Palatine, Ill., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical device. 2,389,155; Nov. 20.
Kessler, Althea D.: *See*—
Goland, P. P., and Drew, assignors.
Kiefer, Karl, Machine Company, The: *See*—
Hallead, M., and Fechheimer, assignors.
King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,389,367; Nov. 20.
King, George E., Swissdale, assignor to Westinghouse Electrical Corporation, East Pittsburgh, Pa. Control system. 2,389,368; Nov. 20.
King, James T., Burbank, Calif. Fishing reel. 2,389,515; Nov. 20.
Kinnear, James W., Jr., Pittsburgh, Pa. Producing high-tensile strength deep-drawing steel. 2,389,516; Nov. 20.
Kirby, Charles F., assignor to himself and C. R. Kirby, Berkeley, Calif., as joint tenants. Rule setting gauge. 2,389,316; Nov. 20.
Kirby, Charles R.: *See*—
Kirby, Charles F., assignor.

**Kirby, James E., and D. W. Woodward, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del.** Immobile N-substituted naphthylamine dye intermediates. 2,389,515; Nov. 20.

Kirschenbauer, Hans G., Allendale, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Producing unsaturated compounds. 2,389,260; Nov. 20.

Kittleson, Howard B., Salt Lake City, Utah. Computor scale. 2,389,369; Nov. 20.

Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,389,317; Nov. 20.

Klopak, Joseph: *See*—
Olson, T. A., and Klopak.

Kmiecik, Leo J., assignor to Everett N. McDonnell, Chicago, Ill. Temperature relief valve. 2,389,437; Nov. 20.

Knapp-Monarch Company: *See*—
Huck, Alfred J., assignor.

Knox, Harry A., Washington, D. C. Track shoe. 2,389,156; Nov. 20.

Knox, Harry A., Washington, D. C. Track shoe. 2,389,438; Nov. 20.

Koch, William W., assignor to Hercules Powder Company, Wilmington, Del. Plastic composition. 2,389,376; Nov. 20.

Koppers Company, Inc.: *See*—
Van der Hoeven, B. J. C., and Unroe, assignors.

Kosolapoff, Gennady M., Dayton, Ohio, assignor to Monsanto Chemical Company. Esters of diolefinic phosphonic acids. 2,389,576; Nov. 20.

Kottemann, Otto A., assignor to W. D. Dodenhoff, Greenville, S. C. Loom picker and joint structure therefor. 2,389,157; Nov. 20.

Kriechbaum, John P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition control system. 2,389,439; Nov. 20.

Kroeger, John W., Drexel Hill Plaza, and D. J. O'Connor, Jr., Yeadon, Pa., assignors to Fred'k. H. Levey Co., Inc., New York, N. Y. Printing inks. 2,389,371; Nov. 20.

Kucher, Andrew A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,389,440; Nov. 20.

Labadie, Jacob T., Gary, Ind. Manufacturing stopper rods. 2,389,517; Nov. 20.

La Brie, Ludger E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fluid power transmitter. 2,389,441; Nov. 20.

Lacka, Hyman: *See*—
Cordiano, H. V., De Paolo, and Lacka.

Lainson, Hal, and A. J. Semotan, assignors to Dutton-Lainson Company, Hastings, Nebr. Pump oiler. 2,389,518; Nov. 20.

Laird, Royal B., Merced, Calif. Scraper dump control. 2,389,190; Nov. 20.

Lake, Ross A., Oak Park, assignor to Teletype Corporation, Chicago, Ill. Web feeding device. 2,389,200; Nov. 20.

Landis Tool Company: *See*—
Jones, Alvin J., assignor.

Landon, Walter S., assignor to Detroit Lubricator Company, Detroit, Mich. Burner control means. 2,389,519; Nov. 20.

Lane, Arthur W., Freeport, and R. S. Curry, Jr., Baldwin, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Controller for gyro instruments. 2,389,158; Nov. 20.

Lang, Joseph C., assignor to Beck Corporation, Pittsburgh, Pa. Fastening nut. 2,389,261; Nov. 20.

Langston, Samuel M., Co.: *See*—
Behrens, Herbert C., assignor.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Berrien, Mich. Torque converter. 2,389,520; Nov. 20.

Larimore, Harvey T., Congress Park, assignor to Kalra Venders, Inc., Chicago, Ill. Multiple-flavor vending machine. 2,389,442; Nov. 20.

Lasher, George: *See*—
Eastman, Harold, assignor.

Lawrenz, Otto, Chicago, Ill. Cutting recesses. 2,389,201; Nov. 20.

Lea, William C., Los Angeles, Calif. Collet holder. 2,389,372; Nov. 20.

Lebold, Samuel N., assignor to Morris Paper Mills, Chicago, Ill. Bottle holder. 2,389,318; Nov. 20.

Lee, Floyd J.: *See*—
Griswold, G. G., and Lee.

Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,389,262; Nov. 20.

Leland, George H., Dayton, Ohio. Bomb rack. 2,389,202; Nov. 20.

Lenz, Joseph L.: *See*—
Thomas, Allan H., assignor.

Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective device for electrical apparatus. 2,389,373; Nov. 20.

Leppla, Rudolph, assignor to McConway & Torley Corporation, Pittsburgh, Pa. Railway car truck. 2,389,521; Nov. 20.

**Leppla, Rudolph, Pittsburgh, Pa., assignor to The Met-standard Company, Bethendorf, Iowa.** Valve retainer. 2,389,522; Nov. 20.

Levey, Fred'k. H., Co., Inc.: *See*—
Kroeger, J. W., and O'Connor, assignors.

Lery, René L., Paris, France, assignor to Societe D'Inventions Aeronautiques Et Mecaniques S. I. A. M., Geneva, Switzerland. High-pressure hydraulic pump. 2,389,374; Nov. 20.

Leyda, Frank A., Berkeley, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Barium calcium magnesium stearate. 2,389,522; Nov. 20.

Lieber, Eugene, Staten Island, N. Y., assignor to Standard Oil Development Company. Condensed halogenated tall oil products and making the same. 2,389,293; Nov. 20.

Liebmann, Alfred J., Cincinnati, Ohio, and G. de Becze, Lawrenceburg, Ind., assignors to Schenley Distillers Corporation, New York, N. Y. Producing 2:3 butanediol. 2,389,263; Nov. 20.

Liquid Carbonic Corporation, The: *See*—
Matthei, Robert, assignor.

Littleton, Jesse T.: *See*—
Guyer, E. M., Littleton, and Shaw.

Livar, Allen P., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Heating appliance. 2,389,264; Nov. 20.

Livar, Allen P., Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich. Recirculation insulated space heater. 2,389,265; Nov. 20.

Lockheed Aircraft Corporation: *See*—
Cooke, John P., assignor.
Pearsall, E. S., Jr., and Richolt, assignors.

Loewenstern, Walter, assignor to Houston Oxygen Company, Houston, Tex. Chlorinating apparatus. 2,389,524; Nov. 20.

Lotz, Rudolph W.: *See*—
Cowles, Irving, assignor.

Lowther, Wilfred W., Minneapolis, Minn. Fuel pump for internal-combustion engines. 2,389,150; Nov. 20.

Ludi, William C., and E. M. Fry, Jr., Matawan, N. J., assignor to Standard Oil Development Company. Alarm signal system for automatic valves. 2,389,204; Nov. 20.

Lundholm, Josef E., Stockholm, Sweden. Devices for bolting up double windows connected with one another. 2,389,375; Nov. 20.

Lyle, Edward L., Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa. Coil handling apparatus. 2,389,443; Nov. 20.

M and M Wood Working Company: *See*—
Cone, Charles N., assignor.

Mahlman, Osborne L.: *See*—
Towe, F. J., Mahlman, and Brown.

Makenny, William: *See*—
Whitmore, J. R., Makenny, and Newcombe.

Mandin, Sven G. A., Norrkoping, Sweden. Cutting off towing cables and the like. 2,389,376; Nov. 20.

Manheim, Lyndon W., Jr.: *See*—
Manheim, Lyndon W., Sr., assignor.

Manheim, Lyndon W., Sr., Greensboro, assignor of one-half to L. W. Manheim, Jr., Gastonia, N. C. Wheel mounting for aircraft. 2,389,525; Nov. 20.

Manning, Richard C., San Gabriel, Calif. Lock nut. 2,389,377; Nov. 20.

Manson, Frank G., and J. J. Mashey, Dayton, Ohio. Airplane troop launching means. 2,389,140; Nov. 20.

Marconi's Wireless Telegraph Company, Limited, et al.: *See*—
Fortescue, Richard L., assignor.

Marisic, Milton M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion system. 2,389,378; Nov. 20.

Marr, George M., New York, N. Y. Buoyant safety light. 2,389,266; Nov. 20.

Marsden, James: *See*—
Wright, J. G. E., and Marsden.

Marsh, Nat H., Daytown, Tex., assignor to Standard Oil Development Company. Preparation of diolefins. 2,389,205; Nov. 20.

Martin, Mervin E.: *See*—
Haney, C. I., Martin, and McGoury.

Mashey, James J.: *See*—
Manson, F. G., and Mashey.

Matthei, Robert, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Refrigerating storage apparatus. 2,389,267; Nov. 20.

Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of styrene. 2,389,444; Nov. 20.

Mattox, William J., and Wayne L. Benedict, assignors to Universal Oil Products Company, Chicago, Ill. Production of ethyl benzene. 2,389,445; Nov. 20.

Maulding, Arthur W., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Center sill jig. 2,389,526; Nov. 20.

McAllister, Sumner H.: *See*—
Ross, W. E., McAllister, and Anderson.





McBee Company, The: *See*—
Connor, Roger, assignor.

McCleary, Rush F., Beacon, assignor to The Texas Company, New York, N. Y. Lubricants. 2,389,527; Nov. 20.

McConaghy, James W., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Sealing device. 2,389,528; Nov. 20.

McConway & Torley Corporation: *See*—
Leppla, Rudolph, assignor.

McCormack, Alex A., assignor to General Motors Corporation, Dayton, Ohio. Electrical appliance. 2,389,446; Nov. 20.

McCoy, Howard M., Fairfield, Ohio. Controllable pitch change mechanism for dual rotation propellers. 2,389,161; Nov. 20.

McCulloch, Leon, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical insulation. 2,389,379; Nov. 20.

McCulloch, Leon, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drying agents or desiccants. 2,389,380; Nov. 20.

McDonnell, Everett N.: *See*—
Kmiecik, L. J., assignor.

McGoury, Thomas E.: *See*—
Haney, C. I., Martin, and McGoury.

McInnes, Colin, Jr., U. S. Army, Beaver, Pa. Multiple signal discharger. 2,389,162; Nov. 20.

McKinney, Edgar L., and J. J. Banta, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Apparatus for gauging and straightening. 2,389,206; Nov. 20.

McKinnis, Ronald B., Winter Haven, Fla. System for controlling the flow of liquid into containers. 2,389,268; Nov. 20.

McLennan, Alexander, Norwood, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reversible single-phase motor. 2,389,381; Nov. 20.

McMordie, Stanley, Arlington, and D. A. Peterson, Chelsea, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Dipping machine. 2,389,319; Nov. 20.

Meadows, Joyce G., Mount Pleasant, Tex. Casket plaque. 2,389,447; Nov. 20.

Mekler, Lev A., assignor to Universal Oil Products Company, Chicago, Ill. Control of reaction temperature in endothermic and exothermic reactions. 2,389,448; Nov. 20.

Meriam Instrument Company, The: *See*—
Hejduk, Arthur A., assignor.

Mermis, William L., Youngstown, Ohio. Surgical fixture. 2,389,269; Nov. 20.

Messenger, Robert P., Kenilworth, and L. H. Kaupke and R. R. Raney, La Grange, Ill., assignors to International Harvester Company. Wire container. 2,389,529; Nov. 20.

Metalwash Machinery Company: *See*—
Zademach, Erich R., assignor.

Micafil Ltd. Works for Electrical Insulation and Winding Machine: *See*—
Wirth, Otto, assignor.

Middel, Hendrik D., Schenectady, N. Y., assignor to General Electric Company. Totalizing telemetering system. 2,389,449; Nov. 20.

Mikina, Stanley J., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,389,382; Nov. 20.

Miller Pottery Engineering Company: *See*—
Miller, W. J., and Wahl, assignors.

Miller, Russell L., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Gas burner. 2,389,270; Nov. 20.

Miller, William J., Swissvale, and A. J. Wahl, Pittsburgh, assignors to Miller Pottery Engineering Company, Swissvale, Pittsburgh, Pa. Apparatus and method for feeding clay to cavitous jigger molds. 2,389,163; Nov. 20.

Miner, Alice T., et al., trustees: *See*—
Geiger, William A., assignor.

Miner, James B., Portland, Oreg. Compartment measure. 2,389,530; Nov. 20.

Miner, W. H., Inc.: *See*—
Dath, George E., assignor.
Forssell, Eric G., assignor.
Lehman, Edward H., assignor.

Miner, William H., Foundation, The: *See*—
Geiger, William A.

Minneapolis-Honeywell Regulator Company: *See*—
Kriechbaum, John P., assignor.
Whempner, Russell H., assignor.

Monowatt Electric Corporation: *See*—
Benander, George B., assignor.
Picard, Stanislas, assignor.

Monroe Calculating Machine Company: *See*—
Chase, George C., assignor.

Monsanto Chemical Company: *See*—
Dunlap, R. L., and Schatz, assignors.
Kosolapoff, Gennady M., assignor.

Moore, Lee C., & Company, Inc.: *See*—
Woolslayer, H. J., Campbell, and Jenkins, assignors.

Morris Paper Mills: *See*—
Lebold, Samuel N., assignor.

Morris, Rupert C.: *See*—
Evans, T. W., and Morris.

Mouromtseff, Ilia E., Montclair, and G. M. Dimick, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tank circuit. 2,389,271; Nov. 20.

Moy, Margaret E., Orange, N. J. Brassière. 2,389,450; Nov. 20.

Moynihan, John J., Rochester, N. Y., assignor of one-half to J. B. Brennan, Cleveland, Ohio. Mechanical movement. 2,389,451; Nov. 20.

Murphy, Edward J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vacuum condenser. 2,389,207; Nov. 20.

Myers, Latimer D.: *See*—
Fitzpatrick, J. D., and Myers.

Nance, Willard L., Peoria, Ill. Truck brake. 2,389,320; Nov. 20.

National Lead Company: *See*—
Stewart, A., and Pitrot, assignors.

National Machinery Company, The: *See*—
Frost, Earl E., assignor.

Neale, Frank T., Warren, assignor to Republic Steel Corporation, Cleveland, Ohio. Shear. 2,389,531; Nov. 20.

Nelson, Clarence D., Mullan, assignor of one-half to E. Hanson, Wallace, Idaho. Drill aligning adapter attachment for liners and other rock drills. 2,389,532; Nov. 20.

Nelson, John N.: *See*—
Olsen, B. A., Combs, and Nelson.

Neuman, Jacob, St. Louis, Mo. Buttonhole construction. 2,389,272; Nov. 20.

Newcombe, Frank A.: *See*—
Whitmore, J. B., Makenny, and Newcombe.

Nicholas, Andrew J., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bomb nose fuse. 2,389,383; Nov. 20.

Nickla, Louis E., Cicero, and A. R. Crawford, Riverside, Ill., assignors to International Harvester Company. Cotton conveyer blower. 2,389,533; Nov. 20.

Nixon, Leslie R., New Eltham, assignor to J. Stone & Company Limited, Deptford, England. Electric regulator. 2,389,321; Nov. 20.

Novak, Mary E., Chicago, Ill. Slacks. 2,389,273; Nov. 20.

O'Brien, Frank J., Pelham, assignor to Continental Can Company, Inc., New York, N. Y. Closure for paper containers. 2,389,534; Nov. 20.

O'Connor, Daniel J., Jr.: *See*—
Kroeger, J. W., and O'Connor.

Odward, Paul S., Lake Geneva, Wis. Holder for fishing poles. 2,389,384; Nov. 20.

Ohio Carbon Company, The: *See*—
Stoffel, Lester L., assignor.
Stoffel, L. L., and Stark, assignors.

Olsen, Barton A., E. T. Combs, and J. H. Nelson, assignors to California Cotton Mills Company, Oakland, Calif. Roofer's mop. 2,389,322; Nov. 20.

Olson, Theodore A., Pompton Plains, and J. Klopak, Newark, N. J., assignors to General Motors Corporation, Detroit, Mich. Gauging. 2,389,535; Nov. 20.

Orr, Willis P., Houston, Tex., assignor to Standard Oil Development Company. Side wall sample taking apparatus. 2,389,208; Nov. 20.

O'Toole, Richard F., Scarsdale, and A. C. Parlini, Freeport, N. Y. Roasting coffee. 2,389,577; Nov. 20.

Ott, Herman S., Rosemead, and P. W. Coombs, Los Angeles, Calif. Annunciator system. 2,389,323; Nov. 20.

Owen, Robert G., Sherman Oaks, assignor to R. H. Clark, West Los Angeles, Calif. Receptacle. 2,389,385; Nov. 20.

Page, Frank R., assignor to Scott & Williams, Incorporated, Laconia, N. H. Knitting machine. 2,389,209; Nov. 20.

Palmer Company, The: *See*—
Bruns, Anthony C., assignor.

Palmgren, Charles A., Chicago, Ill. Chuck. 2,389,536; Nov. 20.

Parke, Davis & Company: *See*—
Bambas, Louis L., assignor.

Parlini, Alexander C.: *See*—
O'Toole, R. F., and Parlini.

Paroz, Paul N., Lancaster, and G. W. Griedale, Jr., Ephrata Township, Lancaster County, assignors to Hamilton Watch Company, Lancaster, Pa. Multiple jewel oiling machine. 2,389,537; Nov. 20.

Parsons Marine Steam Turbine Company Limited, The, et al.: *See*—
Signer, J. U., and Douglas, assignors.

Patterson, Veit C., York, Pa., assignor to York Corporation. Drying. 2,389,452; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,538; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,539; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,540; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,541; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,542; Nov. 20.

Pavlish, Arnold E., and C. R. Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa. Foundry composition. 2,389,543; Nov. 20.

Payne, Donald E., assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion system. 2,389,236; Nov. 20.

Payne, William H., Hinsdale, Ill. Mechanism for supporting and automatically adjusting arc furnace electrodes. 2,389,164; Nov. 20.

Pearsall, Earle S., Jr., Hollywood, and R. Richolt, Tujunga, Calif., assignors to Lockheed Aircraft Corporation. Aircraft control system. 2,389,274; Nov. 20.

Peck, William F., Snyder, and G. E. Guellich, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical tool gauge. 2,389,544; Nov. 20.

Pedley, Arthur, Bentley, near Walsall, assignor to Rubery Owen & Co. Limited, Darlaston, England. Spot-welding machine. 2,389,324; Nov. 20.

Peerpatco, Incorporated: *See*—
Pavlish, A. E., and Austin, assignors.

Penn Electric Switch Co.: *See*—
Kearney, Kenneth O., assignor.

Perrine, John H., Prospect Park, assignor to Sun Oil Company, Philadelphia, Pa. Amides. 2,389,453; Nov. 20.

Peterson, Dewey A.: *See*—
McMordie, S., and Peterson.

Petrullo, John A., New York, N. Y. Finger cot. 2,389,237; Nov. 20.

Philco Corporation: *See*—
Sunstein, David E., assignor.

Phillips Petroleum Company: *See*—
Blumer, Donald R., assignor.
Conn, Miller W., assignor.
Reid, James A., assignor.
Whaley, Thomas H., Jr., assignor.

Phillips, William A., London, E. C. 4, England. Composite structure and structural element. 2,389,238; Nov. 20.

Picard, Stanislas, Cranston, assignor to The Monowatt Electric Corporation, Providence, R. I. Electrical connector. 2,389,454; Nov. 20.

Piesch, Karl H., New Orleans, La. Merry-go-round on water. 2,389,456; Nov. 20.

Pines, Herman, and H. S. Bloch, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Purification of hydrogen halides. 2,389,457; Nov. 20.

Pitman, Earle C., Red Bank, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Airplane wing or fin with improved airfoil characteristics. 2,389,210; Nov. 20.

Pitrot, Adrian R.: *See*—
Stewart, A., and Pitrot, assignors.

Pittsburgh Equitable Meter Company: *See*—
Barge, Raymond H., assignor.

Place, Leonard H., Huber, Oreg., assignor to Air Reduction Company, Incorporated. Apparatus for cutting corrugated plates and the like. 2,389,239; Nov. 20.

Pneumatic Scale Corporation, Limited: *See*—
Vergobbi, Robert W., assignor.

Pointer, Robert W., Portland, Oreg. Low bed trailer. 2,389,211; Nov. 20.

Pointon, John E., assignor to Baker Perkins Limited, Peterborough, England. Mixing, kneading, shredding, pulping, and like machine. 2,389,545; Nov. 20.

Praggastis, John D., Milwaukie, Oreg. Curtain hanger. 2,389,546; Nov. 20.

Preston, John E., Northport, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Controlling relay. 2,389,458; Nov. 20.

Pulmosan Safety Equipment Corporation: *See*—
Burke, Edward W., assignor.

Quilter, John R. C., Woking, England. Parachute pack. 2,389,578; Nov. 20.

Radio Corporation of America: *See*—
Anderson, Leslie J., assignor.
Goldstine, Hallan E., assignor.
Hansell, Clarence W., assignor.

Ramseyer, Charles F.: *See*—
Brassert, H. A., and Ramseyer.

Raney, Russell R.: *See*—
Messenger, R. P., Kaupke, and Raney.

Rayner, Thomas R., Wallasey, and G. A. Burns, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Telemetering arrangement. 2,389,275; Nov. 20.

Redler Conveyer Company: *See*—
Sinden, Alfred De Los, assignor.

Reed Roller Bit Company: *See*—
Fermier, George F., assignor.

Reichstein, Tadeus, Basel, Switzerland. Manufacture of α-hydroxycarbonyl compounds. 2,389,325; Nov. 20.

Reid, James A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbons. 2,389,240; Nov. 20.

Reising, Eugene G., Hartford, Conn. Gun sight. 2,389,326; Nov. 20.

Remark, Isidore J., and V. V. Wheeler, assignors to The General Tire & Rubber Company, Akron, Ohio. Method and apparatus for applying an adhesive coating to cord fabric. 2,389,459; Nov. 20.

Republic Steel Corporation: *See*—
Neale, Frank T., assignor.
Thomas, Parke E., assignor.

Resinous Products & Chemical Company, The: *See*—
Bruson, Herman A., assignor.

Reynolds, Julian L., Richmond, Va., assignor to Reynolds Metals Company. Insulated military tank and other vehicles. 2,389,579; Nov. 20.

Reynolds Metals Company: *See*—
Reynolds, Julian L., assignor.

Richardsons, Westgarth & Company Limited et al.: *See*—
Signer, J. U., and Douglas, assignors.

Richolt, Robert: *See*—
Pearsall, E. S., Jr., and Richolt.

Riedele, Andrew P., Los Angeles, Calif. Ventilated toilet. 2,389,165; Nov. 20.

Rinehart, Harry H., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Thermal insulation and manufacture. 2,389,460; Nov. 20.

Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Cylindrical container and the like. 2,389,547; Nov. 20.

Rockola, David C., L. E. Dettle, and E. L. Triman, assignors to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,389,327; Nov. 20.

Rock-Ola Manufacturing Corporation: *See*—
Rockola, D. C., Dettle, and Triman, assignors.

Rogovin, Abraham T., New Haven, Conn. Container and applicator for wax or the like. 2,389,276; Nov. 20.

Romanoski, Joseph A. E., Huntington, N. Y. Tap. 2,389,548; Nov. 20.

Ross, John: *See*—
Turck, J. A. V., Jr., and Ross.

Ross, Walter F., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Machine for honing tooth grooves of gear finishing tools. 2,389,549; Nov. 20.

Ross, William E., Berkeley, S. H. McAllister, Lafayette, and J. Anderson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic alkylation process. 2,389,550; Nov. 20.

Rubery Owen & Co. Limited: *See*—
Pedley, Arthur, assignor.

Russell, Ralston, Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Glazed ceramics. 2,389,386; Nov. 20.

Rutherford, Frost B., and J. Van Vulpen, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Radiator valve. 2,389,387; Nov. 20.

Ryan, Commodore D., Los Angeles, Calif., assignor to Commercial Controls Corporation. Apparatus for feeding and ejecting envelopes. 2,389,551; Nov. 20.

Saco-Lowell Shops: *See*—
Goldman, Maurice A., assignor.

Saco-Lowell Shops: *See*—
Tarr, Roderic D., assignor.

Sandoz, A. G.: *See*—
Wlaxmitinow, Alexis, assignor.

Sanford, Arthur H., assignor to Hercules Powder Company, Wilmington, Del. Match compositions. 2,389,552; Nov. 20.

Satterlee, Howard A., assignor to The Aro Equipment Corporation, Bryan, Ohio. Fuel cock drive mechanism. 2,389,461; Nov. 20.

Schaad, Raymond E.: *See*—
Bloch, H. S., and Schaad.

Schatz, Robert J.: *See*—
Dunlap, R. I., and Schatz.

Schenley Distillers Corporation: *See*—
Liebmann, A. J., and de Becze, assignors.

Schloss, Morris, New York, N. Y. Automatic device for stitching hat brims. 2,389,388; Nov. 20.

Schwartz, Ernest, assignor to M. Schwartz, Bronx, N. Y. Slipper. 2,389,554; Nov. 20.

Schwartz, Eryderyk, Stockholm, Sweden. Manufacture of synthetic camphor. 2,389,389; Nov. 20.

Schwartz, Miriam: *See*—
Schwartz, Ernest, assignor.

Schwarz, Bertram A., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Combination solenoid speaker. 2,389,212; Nov. 20.

Schwarz, Bertram A., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Tuning mechanism. 2,389,213; Nov. 20.

Scott & Williams, Incorporated: *See*—
Page, Frank R., assignor.

Scullin, Carl H., East Orange, and L. C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic device. 2,389,277; Nov. 20.





Seaver, Jay J., Evanston, Ill. Flue insert for regenerative furnaces and the like. 2,389,166; Nov. 20.

Self-Locking Carton Co.: *See*—
Walsh, John E., assignor.

Sellars, Oliver H., Glen Ridge, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for rock drills. 2,389,553; Nov. 20.

Semotan, Arthur J.: *See*—
Lainson, H., and Semotan.

Sharples Chemicals Inc.: *See*—
Goshorn, Roland H., assignor.

Sharples Corporation, The: *See*—
Sharples, Laurence P., assignor.

Sharples, Laurence P., Ardmore, assignor to The Sharples Corporation, Philadelphia, Pa. Purifying and cooling system for lubricating oils. 2,389,555; Nov. 20.

Shaw, Morton R., Jr.: *See*—
Guyer, E. M., Littleton, and Shaw.

Shell Development Company: *See*—
Evans, T. W., and Morris, assignors.
Ross, W. E., McAllister, and Anderson, assignors.

Shobert, Erle I., II, assignors to Stackpole Carbon Company, St. Marys, Pa. Method and apparatus for prolonging the life of electric brushes. 2,389,214; Nov. 20.

Sidley, William P., et al., trustees: *See*—
Geiger, William A., assignor.

Siegerist, Walter, University City, Mo. Turning machine. 2,389,556; Nov. 20.

Signer, Johan U., West Hartlepool, and L. M. Douglas, assignors to Richardsons, Westgarth & Company Limited, and The Parsons Marine Steam Turbine Company, Limited, Wallsend-on-Tyne, England. Gearing. 2,389,557; Nov. 20.

Silverman, Daniel, assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Well logging. 2,389,241; Nov. 20.

Silverman, Eli E., Brooklyn, N. Y., M. Greene, Caldwell, and S. Greenspan, Newark, N. J. Combined protective enclosure and support for infants' feeding bottles. 2,389,390; Nov. 20.

Simmons, John W., Cleveland Heights, Ohio. Fastening means. 2,389,278; Nov. 20.

Simplex Time Recorder Co.: *See*—
Dell, J. A., and Hobby, assignors.

Sinde, Alfred D. L., Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass. Conveyer. 2,389,279; Nov. 20.

Singleton, Henry M., Goose Creek, Tex., assignor to Standard Oil Development Company. Dehydrogenating hydrocarbon. 2,389,215; Nov. 20.

Skell, Herbert C., Baldwin, N. Y., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Knockdown box. 2,389,580; Nov. 20.

Slater, Fred M., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Mounting for rock drills. 2,389,558; Nov. 20.

Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Energy converting apparatus. 2,389,391; Nov. 20.

Smith, A. O., Corporation: *See*—
Buehner, Howard A., assignor.

Smith, Alva T., assignor to The Sunlite Mfg. Company, Milwaukee, Wis. Pressing cloth. 2,389,216; Nov. 20.

Smith, Frank R., Los Angeles, Calif. Electrode holder. 2,389,559; Nov. 20.

Smith, Richard G., Amsterdam, N. Y. Current collector for toy electric rolling stock. 2,389,280; Nov. 20.

Smith, Robert L., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive products and manufacture. 2,389,462; Nov. 20.

Smotzer, Michael C., Oak Park, assignor to James B. Clow & Sons, Chicago, Ill. Pipe-cutting machine. 2,389,463; Nov. 20.

Smyth, Charles N., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Lecher wire system. 2,389,167; Nov. 20.

Snyder, Jacob R., Cleveland, Ohio. Preventing deterioration in rail fastenings and the like. 2,389,464; Nov. 20.

Snyder, Mahlon C., Hamburg, N. Y. Storing liquid fuel. 2,389,168; Nov. 20.

Societe D'Inventions Aeronautiques et Mecaniques S. I. A. M.: *See*—
Levy, René L., assignor.

Socony-Vacuum Oil Company, Incorporated: *See*—
Evans, Louis P., assignor.
Francis, A. W., and James, assignors.
Mariale, Milton M., assignor.

Spanel, Martin M., Flint, Mich. Grinding mill. 2,389,242; Nov. 20.

Sperry Gyroscope Company, Inc.: *See*—
Esval, O. E., and Wrigley, assignors.
Fragola, C. F., Depp, and Curry, assignors.
Lane, A. W., and Curry, assignors.

Spillers Limited: *See*—
Evans, Cyril H., assignor.

Stackpole Carbon Company: *See*—
Shobert, Erle I., II, assignor.

Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Hydraulic motor. 2,389,169; Nov. 20.

Staley, Allen C., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Instrument for indicating pressures suited to various speeds. 2,389,281; Nov. 20.

Stalker, Edward A., Ann Arbor, Mich. Rotary wing aircraft. 2,389,170; Nov. 20.

Standard Oil Company: *See*—
Payne, Donald E., assignor.

Standard Oil Development Company: *See*—
Anderson, James A., Jr., assignor.
Lieber, Eugene, assignor.
Ludl, W. C., and Fry, assignors.
Marsh, Nat H., assignor.
Orr, Willis P., assignor.
Singleton, Henry M., assignor.
Wright, Donald L., assignor.

Standard Telephones and Cables Limited et al.: *See*—
Fortescue, Richard L., assignor.

Stanolind Oil and Gas Company: *See*—
Silverman, Daniel, assignor.

Stark, Alfred A.: *See*—
Stoffel, L. L., and Stark.

Steel Heddle Manufacturing Company: *See*—
Hilton, George, assignor.

Steffens, Robert N., New York, N. Y. Apparatus for making thermoplastic joints. 2,389,560; Nov. 20.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Magnifying device. 2,389,282; Nov. 20.

Stevenhagen, John W.: *See*—
Hein, C. C., and Stevenhagen.

Stewart, Alexander, Mountain Lakes, N. J., and A. R. Pitrot, assignors to National Lead Company, Hempstead, N. Y. Composition for storage battery plates and preparing same. 2,389,465; Nov. 20.

Stewart, James E., Rye, N. Y. Machine for vending bottles. 2,389,283; Nov. 20.

Stilwell, David W., Los Angeles, Calif. Apparatus for treating petroleum. 2,389,328; Nov. 20.

Stoffel, Lester L., Lakewood, assignor to The Ohio Carbon Company, Cleveland, Ohio. Resistor for spark plugs. 2,389,466; Nov. 20.

Stoffel, Lester L., Lakewood, and A. A. Stark, assignors to The Ohio Carbon Company, Cleveland, Ohio. Electrical connector. 2,389,467; Nov. 20.

Stokes, F. J., Machine Company: *See*—
Stokes, F. J., Jr., and Bailey, assignors.

Stokes, Francis J., Jr., Philadelphia, and L. H. Bailey, Cheltenham, assignors to F. J. Stokes Machine Company. Molding press. 2,389,561; Nov. 20.

Stone, J., & Company Limited: *See*—
Nixon, Leslie R., assignor.

Stoner-Mudge, Inc.: *See*—
Young, George H., assignor.

Storch, Harold A., Fairview Village, assignor to Harris Products Company, Cleveland, Ohio. Flexible mounting device. 2,389,562; Nov. 20.

Streander, Philip B., Maplewood, N. J. Filter bed cleaning. 2,389,329; Nov. 20.

Strickarz, John J.: *See*—
Deyrup, A. J. Ballard, and Strickarz.

Strom, Albert P., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,389,392; Nov. 20.

Stuebing, William, Jr., Cincinnati, Ohio. Lift truck. 2,389,563; Nov. 20.

Sullivan Machinery Company: *See*—
Dustin, Ralph C., assignor.

Sun Oil Company: *See*—
Perrine, John H., assignor.

Sunlite Mfg. Company, The: *See*—
Smith, Alva T., assignor.

Sunstein, David E., Elkins Park, assignor to Philco Corporation, Philadelphia, Pa. Electrical system. 2,389,564; Nov. 20.

Surrey, Alexander R., Albany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of malononitrile. 2,389,217; Nov. 20.

Taberlet, Fred R., Forest Hills, N. Y. Nonmetallic separable fastener and making the same. 2,389,565; Nov. 20.

Tama, Manuel and M., Morrisville, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J. Cooling system for induction furnaces. 2,389,218; Nov. 20.

Tama, Mario: *See*—
Tama, Manuel and M.

Tarr, Roderic D., Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile drawing mechanism. 2,389,581; Nov. 20.

Teletype Corporation: *See*—
Lake, Ross A., assignor.

Terry, Augustus P., Berkeley, Calif. Fastener for duct forms and the like. 2,389,468; Nov. 20.

Tested Appliance Company: *See*—
Dick, Herbert L., assignor.

Texas Company, The: *See*—
Kemp, Lebbeus C., Jr., assignor.
McCleary, Rush F., assignor.

Tholstrup, Poul, Roskilde, Denmark; vested in the Alien Property Custodian. Snow fence. 2,389,395; Nov. 20.

Thomander, Veron S., Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical measuring instrument. 2,389,363; Nov. 20.

Thomas, Allan H., assignor of one-half to J. L. Lens, Butte, Mont. Electric mathematical educational appliance. 2,389,394; Nov. 20.

Thomas, Parke E., assignor to Republic Steel Corporation, Cleveland, Ohio. Solids feeder. 2,389,566; Nov. 20.

Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Valve mechanism for pressure cooker. 2,389,330; Nov. 20.

Thompson, Robert K., and K. E. Dixon, Detroit, Mich., assignors to G. M. and E. Holley. Mixture control. 2,389,219; Nov. 20.

Thornton, John T., Parrott, Ga. Peanut harvester. 2,389,567; Nov. 20.

Tillett, Stanley H., Wanstead, England. Jig for use in drilling and like operations. 2,389,243; Nov. 20.

Timken-Detroit Axle Company, The: *See*—
Buckendale, Lawrence R., assignor.

Timken Roller Bearing Company, The: *See*—
Boden, Ernest G., assignor.
Edwards, Herbert C., assignor.

Tone, Frank J., Niagara Falls, O. L. Mahlman, Kenmore, and F. Brown, assignors to The Carborundum Company, Niagara Falls, N. Y. Manufacture of adhesive tapes. 2,389,449; Nov. 20.

Townsley, Fredie, Toronto, Ontario, Canada, assignor to Holgate Brothers Company, Kane, Pa. Figured wheeled toy. 2,389,568; Nov. 20.

Trayaham, George E., Wilkes-Barre, Pa. Safety razor. 2,389,470; Nov. 20.

Tredeau, Earl W., West Allis, Wis. Switch actuator. 2,389,220; Nov. 20.

Triman, Eugene L.: *See*—
Rockola, D. C., Dettle, and Triman.

Trojan Powder Company: *See*—
Wyler, Joseph A., assignor.

Turck, Joseph A. V., Jr., and J. Ross, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Selectively hydrogenated tall oil and making same. 2,389,284; Nov. 20.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 2,389,471; Nov. 20.

Twentieth Century-Fox Film Corporation: *See*—
Hess, Louis F., assignor.

Tyden, Emil, Hastings, Mich. Sprinkler head. 2,389,331; Nov. 20.

Tyden, Emil, Hastings, Mich. Sprinkler head. 2,389,332; Nov. 20.

Tyden, Emil, Hastings, Mich. Sprinkler head. 2,389,333; Nov. 20.

Tyden, Emil, Hastings, Mich. Sprinkler head. 2,389,334; Nov. 20.

Tyszer, Howard J., Caldwell, assignor, by mesne assignments, to H. E. and F. A. Barnes, East Orange, N. J. Electrical energy conversion. 2,389,472; Nov. 20.

Udylite Corporation, The: *See*—
Brown, Henry, assignor.

Underwood, James W.: *See*—
D'Alello, G. F., and Underwood.

United-Carr Fastener Corporation: *See*—
Churchill, Wilmer H., assignor.

United Gas Improvement Company, The: *See*—
Franz, Raymond A., assignor.

United Shoe Machinery Corporation: *See*—
Ashworth, Fred, assignor.

United States Gypsum Company: *See*—
Balduf, Bruno E., assignor.

Universal Oil Products Company: *See*—
Alther, Joseph G., assignor.
Bloch, H. S., and Schaad, assignors.
Mattox, William J., assignor.
Mattox, W. J., and Benedict, assignors.
Mekler, Lev A., assignor.
Pines, H., and Bloch, assignors.

Unroe, John W.: *See*—
Van der Hoeven, B. J. C., and Unroe.

Urbain, Leon F., Chicago, Ill. Assembling construction units. 2,389,171; Nov. 20.

Van der Hoeven, Bernard J. C., Pittsburgh, Pa., and J. W. Unroe, Steubenville, Ohio, assignors, by mesne assignments, to Koppers Company, Inc. Refining of coke-oven light oil. 2,389,172; Nov. 20.

Van Vulpen, John: *See*—
Rutherford, F. B., and Van Vulpen.

Vapor Car Heating Company, Inc.: *See*—
Rutherford, F. B., and Van Vulpen, assignors.

Vasey, William G., New Westminster, British Columbia, Canada. Strap fastener. 2,389,335; Nov. 20.

Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packing bullets. 2,389,285; Nov. 20.

Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Timing device for power transmission systems. 2,389,473; Nov. 20.

Vickers Incorporated: *See*—
Vickers, Harry F., assignor.

Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Elevator. 2,389,221; Nov. 20.

Wagner, Henry J., Jackson, Mo. Electrode holder. 2,389,569; Nov. 20.

Wagoner, William S., Gibsonville, N. C. Apparatus for molding blocks. 2,389,474; Nov. 20.

Wahl, Albert J.: *See*—
Miller, W. J., and Wahl.

Walmesley, Robert A., Howwood, Scotland, assignor to Imperial Chemical Industries Limited. Recovery of glycerol from fermented liquors. 2,389,173; Nov. 20.

Walsh, John E., assignor to Self-Locking Carton Co., Chicago, Ill. Carton. 2,389,222; Nov. 20.

Watkins, Wilfrid W., Helensburgh, Scotland. Apparatus for marking or cutting pipes. 2,389,286; Nov. 20.

Watson, Orla E., Kansas City, Mo. Injector operating means. 2,389,475; Nov. 20.

Wells, Joseph H., and P. J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Production of resins from coke oven gas. 2,389,570; Nov. 20.

Werner, Leo C.: *See*—
Scullin, C. H., and Werner.

Werner, Mack M., Brooklyn, N. Y. Eyeshield. 2,389,223; Nov. 20.

Wessman, Walter G., Fairfield, Conn. Grinding machine. 2,389,224; Nov. 20.

Western Electric Company, Incorporated: *See*—
Blount, H., and Colclebell, assignors.

Westinghouse Electric Corporation: *See*—
Denault, Clinton L., assignor.
Exner, Donald W., assignor.
Funk, Donald P., assignor.
Hagg, A. C., and Boyd, assignors.
Hein, C. C., and Stevenhagen, assignors.
Jenks, Harold C., assignor.
King, George E., assignor.
Leonard, Merrill G., assignor.
McCulloch, Leon, assignor.
McLennan, Alexander, assignor.
Mikina, Stanley J., assignor.
Mourontseff, I. E., and Dinnick, assignors.
Nicholas, Andrew J., assignor.
Russell, Ralston, Jr., assignor.
Scullin, C. H., and Werner, assignors.
Slepian, Joseph, assignor.
Strom, Albert P., assignor.
Thomander, Veron S., assignor.
Whitmore, J. B., Makenny, and Newcombe, assignors.
Winchester, Amos J., Jr., assignor.

Whaley, Thomas H., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method and apparatus for controlling vaporization. 2,238,344; Nov. 20.

Wheeler, Vaughn Y.: *See*—
Remark, I. J., and Wheeler.

Whempner, Russell H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Supervisory system and perceptive indicator therefor. 2,389,476; Nov. 20.

Whitmore, James B., Bloomfield, W. Makenny, Mountain View, and F. A. Newcombe, Nutley, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Article inspection method and machine. 2,389,287; Nov. 20.

Whitworth, Perry V., El Cerrito, Calif. Power transmitting unit. 2,389,174; Nov. 20.

Wiasmitinow, Alexis, Basel, assignor to Sandoz A. G., Fribourg, Switzerland. Printing process for textiles. 2,389,245; Nov. 20.

Wieczorek, George A., Jr., Pittsburgh, and C. B. Jackson, Forest Hills, Pa. Canister. 2,389,225; Nov. 20.

Wilkening Manufacturing Company: *See*—
Engelhardt, Carl F., assignor.

Willis, Bernard D., Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc. Switching apparatus. 2,389,571; Nov. 20.

Wilson, Philip J., Jr.: *See*—
Wells, J. H., and Wilson.

Winchester, Amos J., Jr., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Time delay circuits. 2,389,396; Nov. 20.

Winnek, Philip S., and R. R. Bockstahler, Indianapolis, Ind., assignors to Allied Laboratories, Inc., Kansas City, Mo. Compounds of 2-sulphanilamido-5-carberythiazole with vasoconstrictors and their solutions. 2,389,582; Nov. 20.

Winther, Martin P., Waukegan, Ill., assignor to M. P. Winther, as trustee. Engine loading and testing system. 2,389,572; Nov. 20.

Winther, Martin P., trustee: *See*—
Winther, Martin P., assignor.

Winthrop Chemical Company, Inc.: *See*—
Surrey, Alexander R., assignor.

Wirth, Otto, assignor to Micafil Ltd. Works for Electrical Insulation and Winding Machines, Zurich, Switzerland. Machine for winding the stators of electric motors. 2,389,336; Nov. 20.

Withall, Albert P., et al., trustees: *See*—
Geiger, William A., assignor.

Wood, Robert T., and M. E. Gantz, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Thermal treatment. 2,389,583; Nov. 20.





Woods, John E., Brookline, assignor to Clifford Manufacturing Co., Boston, Mass. Making heat exchange apparatus. 2,389,175; Nov. 20.

Woodward, David W.: *See*—
Kirby, J. E., and Woodward.

Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Fast sheave mounting for oil well masts. 2,389,226; Nov. 20.

Wright, Donald L., Westfield, N. J., assignor to Standard Oil Development Company. Pneumatic tool lubricant. 2,389,227; Nov. 20.

Wright, James G. E., Alplaus, and J. Marsden, Schenectady, N. Y., assignors to General Electric Company. Polysiloxane resins. 2,389,477; Nov. 20.

Wrigley, Walter: *See*—
Esval, O. E., and Wrigley.

Wyler, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Preparation of tripentaerythritol octanitrate. 2,389,228; Nov. 20.

York Corporation: *See*—
Patterson, Velt C., assignor.

Young, George H., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa. Antifouling composition. 2,389,229; Nov. 20.

Zademach, Erich R., Elizabeth, assignor, by mesne assignments, to Metalwash Machinery Company, Newark, N. J. Article treating machine. 2,389,227; Nov. 20.

Zimmerman, Ralph O., Des Plaines, Ill. Form for constructing steps. 2,389,397; Nov. 20.

Zint, George, Wapakoneta, Ohio. Tobacco feeding device. 2,389,398; Nov. 20.

Zorc, Frank J., Jr., Waukegan, Ill. Boat launching trailer. 2,389,338; Nov. 20.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Prefabricated structure for containers and the like. H. B. Lindsay. Re. 22,693; Nov. 20.

Stoker, Automatic. I. A. Winter. Re. 22,694; Nov. 20.

# LIST OF PLANT INVENTIONS

Peach tree. W. E. Lammerts. 661; Nov. 20.

# LIST OF DESIGN INVENTIONS

Airplane. A. Kartveli. 142,955; Nov. 20.
Bottle holder and warmer combined. E. J. Cain. 142,947; Nov. 20.
Bracelet. H. S. Benbow. 142,939–41; Nov. 20.
Bracelet. G. J. Lederer. 142,956–8; Nov. 20.
Canopy or similar article, Cockpit. E. O. Weining. 142,974; Nov. 20.
Casing, Vacuum cleaner. G. W. Walker. 142,972–3; Nov. 20.
Coat. D. Bellsey. 142,936–8; Nov. 20.
Comb, Hair. D. A. Alder. 142,930; Nov. 20.
Door check and deodorant diffuser, Combined. I. Dobkin. 142,949; Nov. 20.
Drawer pull. E. M. Borchers. 142,942–4; Nov. 20.
Earring. F. Morrow. 142,963; Nov. 20.
Fan propeller. B. Lee. 142,959–60; Nov. 20.
Figurine or similar article. F. Powell. 142,966; Nov. 20.
Fire extinguisher. E. H. Hansen. 142,954; Nov. 20.
Fork or other article of flatware. J. R. Price. 142,967; Nov. 20.
Frame, Spectacle. A. and E. Barrett. 142,934–5; Nov. 20.
Game board. E. Schell. 142,971; Nov. 20.
Game board or the like. A. D. Clem. 142,948; Nov. 20.
Gun sight. R. M. Lynn. 142,961; Nov. 20.
Hair dressing appliance. R. L. Barker. 142,933; Nov. 20.
Handle, Catch. E. M. Borchers. 142,945; Nov. 20.
Holder or similar article, Playing card. R. Miller. 142,962; Nov. 20.
Holder or the like, Cap for lipstick. E. Norman. 142,965; Nov. 20.
Jacket. N. Finkelstein. 142,951; Nov. 20.
Jacket. Z. Golden. 142,953; Nov. 20.
Necklace. J. Rubel. 142,970; Nov. 20.
Necklace or similar article. J. Rubel. 142,969; Nov. 20.
Rack or the like, Merchandise. J. L. Ford. 142,952; Nov. 20.
Razor, Safety. V. Dudas. 142,950; Nov. 20.
Shoe sole and heel, Combined. E. M. Acosta. 142,929; Nov. 20.
Tool, Tire. H. J. Bailey. 142,931; Nov. 20.
Toy. L. G. Baker. 142,932; Nov. 20.
Toy, Bell. E. New. 142,964; Nov. 20.
Vane, Weather. J. F. Royals. 142,968; Nov. 20.
Welding symbol template, Draftsman's. R. J. Burleigh. 142,946; Nov. 20.
Wheel, Airplane tail. T. F. Young. 142,976; Nov. 20.
Wheel with bracket mounting. T. F. Young. 142,975; Nov. 20.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles. R. I. Dunlap and R. J. Schatz. 2,389,491; Nov. 20.
Abrasive products and manufacture. R. L. Smith. 2,389,462; Nov. 20.
Actuator, Switch. E. W. Tredeau. 2,389,220; Nov. 20.
Adhesive coating to cord fabric, Method and apparatus for applying an. I. J. Remark and V. V. Wheeler. 2,389,459; Nov. 20.
Adhesive tapes, Manufacture of. F. J. Tone, O. L. Mahlman, and F. Brown. 2,389,469; Nov. 20.
Agitation of pickling baths. W. H. Dailey, Jr. 2,389,488; Nov. 20.
Air cleaner equipped filler tube. J. C. Enblom. 2,389,140; Nov. 20.
Aircraft control system. E. S. Pearsall, Jr., and R. Richolt. 2,389,274; Nov. 20.
Aircraft, Rotary wing. E. A. Stalker. 2,389,170; Nov. 20.
Air inlet. L. F. Hess. 2,389,310; Nov. 30.
Airplane wing or fin with improved airfoil characteristics. E. C. Pitman. 2,389,210; Nov. 20.
Alarm signal system for automatic valves. W. C. Ludi and E. M. Fry. 2,389,204; Nov. 20.
Aldehyde condensation products and producing the same. D. W. Jayne, Jr., and H. M. Day. 2,389,150; Nov. 20.
Aldehydes and triazine derivatives, Reaction products of. G. F. D'Alelio and J. W. Underwood. 2,389,417; Nov. 20.
Alloy: *See*—
Flint alloy.
α-Hydroxycarbonyl compounds, Manufacture of. T. Reichstein. 2,389,325; Nov. 20.
Aluminum silicate product and making same. E. E. Fisher. 2,389,352; Nov. 20.
Amides. J. H. Perrine. 2,389,453; Nov. 20.
Amines, Manufacture of. R. H. Goshorn. 2,389,500; Nov. 20.
Anchor for ground supports. J. B. Hyde. 2,389,149; Nov. 20.
Annunciator system. H. S. Ott and P. W. Coombs. 2,389,323; Nov. 20.
Antibackflow and antisiphonage valve. F. Carlton. 2,389,412; Nov. 20.
Antifouling composition. G. H. Young. 2,389,229; Nov. 20.
Apparatus and method for feeding clay to cavitous jigger molds. W. J. Miller and A. J. Wahl. 2,389,163; Nov. 20.
Apparatus for conveying and arranging bottles, jars, cans, or the like. T. J. Gagnon and A. S. Alcorn. 2,389,496; Nov. 20.
Apparatus for cutting corrugated plates and the like. L. H. Place. 2,389,239; Nov. 20.
Apparatus for feeding and ejecting envelopes. C. D. Ryan. 2,389,551; Nov. 20.
Apparatus for gauging and straightening. E. L. McKinney and J. A. Banta. 2,389,206; Nov. 20.
Apparatus for making thermoplastic joints. R. N. Steffens. 2,389,560; Nov. 20.
Apparatus for marking or cutting pipes. W. W. Watkins. 2,389,286; Nov. 20.
Apparatus for molding blocks. W. S. Wagoner. 2,389,474; Nov. 20.
Apparatus for reduction of metallic material. H. A. Brassert and C. F. Ramseyer. 2,389,133; Nov. 20.
Apparatus for the purification of water. H. L. Dick. 2,389,185; Nov. 20.
Apparatus for treating petroleum. D. W. Stillwell. 2,389,328; Nov. 20.
Apparatus for vulcanizing articles. H. Blount and F. A. Coldehoff. 2,389,178; Nov. 20.
Apparel closure. R. Ellis. 2,389,299; Nov. 20.
Apparel fastener. R. Ellis. 2,389,298; Nov. 20.
Article inspection method and machine. J. B. Whitmore, W. Makenny, and F. A. Newcombe. 2,389,287; Nov. 20.
Article treating machine. E. R. Zademach. 2,389,337; Nov. 20.
Attaching means for ear and like ornaments, Safety. F. Banner. 2,389,481; Nov. 20.
Attachment for typewriting machines. A. W. Boyd. 2,389,406; Nov. 20.
Automatic device for stitching hat brims. M. Schloss. 2,389,388; Nov. 20.
Automotive driving axle construction. E. G. Boden. 2,389,484; Nov. 20.
Axle, Drive. L. R. Buckendale. 2,389,137; Nov. 20.
Baling press. R. B. Hitchcock. 2,389,510; Nov. 20.
Bearing. T. L. Gatke. 2,389,253; Nov. 20.
Blower, Cotton conveyer. L. E. Nickla and A. R. Crawford. 2,389,533; Nov. 20.
Bolting up double windows connected with one another. J. E. Lundholm. 2,389,375; Nov. 20.
Bomb rack. G. H. Leland. 2,389,202; Nov. 20.
Bottle holder. S. N. Lebold. 2,389,318; Nov. 20.
Bottles, Machine for vending. J. E. Stewart. 2,389,283; Nov. 20.
Box: *See*—
Fuse packing box.
Knockdown box.
Brake: *See*—
Hydraulic brake.
Truck brake.
Brake. H. J. and F. A. Hirschman. 2,389,311; Nov. 20.
Brake for crawler tracks. R. Q. Armington. 2,389,289; Nov. 20.
Brassière. M. E. Moy. 2,389,450; Nov. 20.
Building structure. B. E. Balduf. 2,389,573; Nov. 20.
Bullets, Packing. R. W. Vergobbi. 2,389,285; Nov. 20.
Bunch locating and transfer mechanism. J. F. Halstead. 2,389,256; Nov. 20.
Buoyant safety light. G. M. Marr. 2,389,266; Nov. 20.
Burner: *See*—
Gas burner.
Burner control means. W. S. Landon. 2,389,519; Nov. 20.
Buttonhole construction. J. Neuman. 2,389,272; Nov. 20.
Button, Push. A. F. Horlacher. 2,389,259; Nov. 20.
Calculating device. E. F. Flint. 2,389,249; Nov. 20.
Calculator, Listing. G. C. Chase. 2,389,182; Nov. 20.
Canister. G. A. Wieczorek, Jr., and C. B. Jackson. 2,389,225; Nov. 20.
Capacitors, Manufacture of. A. J. Deyrup. 2,389,420; Nov. 20.
Carboy handling apparatus. M. Bixler. 2,389,482; Nov. 20.
Carrier wave signaling system. W. S. Halstead. 2,389,257; Nov. 20.
Cart, Utility. E. M. Hulquist. 2,389,574; Nov. 20.
Carton. J. E. Walsh. 2,389,222; Nov. 20.
Carton with removable liner. R. M. Bergstein. 2,389,291; Nov. 20.
Case: *See*—
Thermometer case.
Catalytic alkylation process. W. E. Ross, S. H. McAllister, and J. Anderson. 2,389,550; Nov. 20.
Catalytic conversion system. M. M. Marisic. 2,389,378; Nov. 20.
Catalytic conversion system. D. E. Payne. 2,389,236; Nov. 20.
Catalytic dehydrogenation. M. W. Conn. 2,389,342; Nov. 20.
Cellulose ether composition. W. E. Gloor. 2,389,354; Nov. 20.
Ceramics, Glazed. R. Russell, Jr. 2,389,386; Nov. 20.
Chlorinating apparatus. W. Loewenstern. 2,389,524; Nov. 20.
Chuck. A. J. Jones. 2,389,366; Nov. 20.
Chuck. C. A. Palmgren. 2,389,536; Nov. 20.
Circuit: *See*—
Tank circuit.
Circuit interrupter. C. L. Denault. 2,389,346; Nov. 20.
Circuit interrupter. A. P. Strom. 2,389,392; Nov. 20.
Circuits, Time delay. A. J. Winchester, Jr. 2,389,396; Nov. 20.
Clamping and securing device. J. P. Cooke. 2,389,184; Nov. 20.
Clip: *See*—
Earring clip.
Cloth, Pressing. A. T. Smith. 2,389,216; Nov. 20.
Coil handling apparatus. E. L. Lyle. 2,389,443; Nov. 20.
Coin display holder. C. R. Honza. 2,389,312; Nov. 20.
Collet holder. W. C. Lea. 2,389,372; Nov. 20.
Comminutor, Sewage. W. H. Green. 2,389,306; Nov. 20.
Communication system by pulses through the earth. C. W. Hansell. 2,389,432; Nov. 20.
Commutation means for rotary rectifiers. K. L. Hansen. 2,389,507; Nov. 20.
Compartment measure. J. B. Miner. 2,389,530; Nov. 20.
Composition for storage battery plates and preparing same. A. Stewart and A. R. Pitrot. 2,389,465; Nov. 20.
Compounds of 2-sulphanilamido-5-carboxythiazole with vasoconstrictors and their solutions. P. S. Winnek and E. R. Bockstahler. 2,389,582; Nov. 20.
Compounds produced from salts of sulphamic acids and their preparation. G. F. D'Alelio. 2,389,416; Nov. 20.

Condenser: *See*—
Vacuum condenser.
Condensation products of the modified urea-aldehyde type. G. F. D'Alelio. 2,389,415; Nov. 20.
Condition control system. J. P. Kreichbaum. 2,389,439; Nov. 20.
Connector: *See*—
Electrical connector.
Connector. R. C. Graham. 2,389,255; Nov. 20.
Construction units, Assembling. L. F. Urbain. 2,389,171; Nov. 20.
Container: *See*—
Key container. Wire container.
Contacting finely divided solid particles with fluids, Method and apparatus for. J. G. Alther. 2,389,399; Nov. 20.
Container and applicator for wax or the like. A. T. Rogovin. 2,389,276; Nov. 20.
Containers, Closure for paper. F. J. O'Brien. 2,389,534; Nov. 20.
Control system. G. B. King. 2,389,367–8; Nov. 20.
Controller for gyro instruments. A. W. Lane and R. S. Curry, Jr. 2,389,158; Nov. 20.
Controlling relay. J. E. Preston. 2,389,459; Nov. 20.
Controlling the flow of liquid into containers, System for. R. B. McKinnis. 2,389,268; Nov. 20.
Converter, Torque. R. Lapsley. 2,389,520; Nov. 20.
Conveyer: *See*—
Conveyer.
Conveyer. A. De L. Sinde. 2,389,279; Nov. 20.
Conveyer assembly, Reversible grain. H. and W. Bobrowski. 2,389,483; Nov. 20.
Cooling system for induction furnaces. M. and M. Tama. 2,389,218; Nov. 20.
Copper oxide rectifier. C. C. Hein and J. W. Stevenhagen. 2,389,363; Nov. 20.
Cot, Baby bathing. A. M. N. Harper. 2,389,362; Nov. 20.
Cot, Finger. J. A. Petrullo. 2,389,237; Nov. 20.
Cover: *See*—
Foot cover.
Cultivator. J. Evans. 2,389,422; Nov. 20.
Curtain hanger. J. D. Praggastis. 2,389,546; Nov. 20.
Cutter for looms, Thread. R. G. Turner. 2,389,471; Nov. 20.
Cutting recesses. O. Lawrenz. 2,389,201; Nov. 20.
Cylindrical container and the like. W. A. Ringler. 2,389,457; Nov. 20.
Defeathering fowls, Method and apparatus for. S. S. Barker. 2,389,404; Nov. 20.
Dextrose, Production of. S. M. Cantor. 2,389,119; Nov. 20.
Diolefins, Preparation of. N. H. Marsh. 2,389,205; Nov. 20.
Dipping machine. S. McMordie and D. A. Peterson. 2,389,319; Nov. 20.
Display device. J. V. Horr. 2,389,511; Nov. 20.
Dock, Floating. H. O. Foss. 2,389,353; Nov. 20.
Double glazed window and manufacture. E. M. Guyer, J. T. Littleton, and M. R. Shaw, Jr. 2,389,360; Nov. 20.
Drill. H. J. Esdale. 2,389,188; Nov. 20.
Drill aligning adapter attachment for liners and other rock drills. C. D. Nelson. 2,389,532; Nov. 20.
Drive mechanism, Convertible wheel endless. C. D. Grove. 2,389,308; Nov. 20.
Drying. V. C. Patterson. 2,389,452; Nov. 20.
Drying agents or desiccants. L. McCulloch. 2,389,350; Nov. 20.
Dump control, Scraper. H. B. Laird. 2,389,190; Nov. 20.
Dye intermediates, Immobile N-substituted naphthylamine. J. E. Kirby and D. W. Woodward. 2,389,575; Nov. 20.
Dynamometer. A. C. Hagg and J. Boyd. 2,389,361; Nov. 20.
Earring clip. M. Chernow. 2,389,295; Nov. 20.
Electric brushes, Method and apparatus for prolonging the life of. E. I. Shobert, II. 2,389,214; Nov. 20.
Electric regulator. L. R. Nixon. 2,389,321; Nov. 20.
Electrical appliance. A. A. McCurmack. 2,389,446; Nov. 20.
Electrical capacitors, Preparation of. A. J. Deyrup, K. H. Ballard, and J. J. Strickarz. 2,389,419; Nov. 20.
Electrical conductors to glider tow ropes, Attaching. E. H. Borgelt. 2,389,132; Nov. 20.
Electrical connector. A. Anderson. 2,389,115; Nov. 20.
Electrical connector. G. B. Benander. 2,389,455; Nov. 20.
Electrical connector. S. Picard. 2,389,454; Nov. 20.
Electrical connector. L. L. Stoffel and A. A. Stark. 2,389,467; Nov. 20.
Electrical energy conversion. H. J. Tyzzer. 2,389,472; Nov. 20.
Electrical mathematical educational appliance. A. H. Thomas. 2,389,394; Nov. 20.
Electrical measuring instrument. V. S. Thomander. 2,389,393; Nov. 20.
Electrical system. D. E. Sunstein. 2,389,564; Nov. 20.
Electrode holder. F. R. Smith. 2,389,559; Nov. 20.
Electrode holder. H. J. Wagner. 2,389,560; Nov. 20.
Electrodeposition of antimony. M. C. Bloom. 2,389,131; Nov. 20.
Electrodeposition of metals. H. Brown. 2,389,135; Nov. 20.
Electrodeposition of metals. H. Brown. 2,389,179–81; Nov. 20.
Electronic device. C. H. Scullin and L. C. Werner. 2,389,277; Nov. 20.
Electronic full cycle timing control. D. P. Faulk. 2,389,251; Nov. 20.
Elevator. L. W. Wachter. 2,389,221; Nov. 20.
Enclosure and support for infants' feeding bottles, Combined protective. E. E. Silverman, M. Greene, and S. Greenspan. 2,389,390; Nov. 20.
Energy converting apparatus. J. Slepian. 2,389,391; Nov. 20.
Engine loading and testing system. M. P. Winther. 2,389,572; Nov. 20.
Esters containing the dihydronordicyclopentadiene ring system, Mixed. H. A. Bruson. 2,389,136; Nov. 20.
Esters of carboxylic acid, Manufacture of trithio ortho. J. D. Kendall. 2,389,153; Nov. 20.
Esters of diolefinic phosphonic acids. G. M. Kosolapoff. 2,389,576; Nov. 20.
Ethyl benzene, Production of. W. J. Mattox and W. L. Benedict. 2,389,445; Nov. 20.
Eyeshield. M. M. Werner. 2,389,223; Nov. 20.
Fabric and making, Treated. S. M. Edelstein. 2,389,421; Nov. 20.
Fastener: *See*—
Apparel fastener. Strap fastener.
Fastener and making the same, Nonmetallic separable. F. R. Taberlet. 2,389,565; Nov. 20.
Fastener device, Shiftable cowl. W. H. Churchill. 2,389,121; Nov. 20.
Fastener for duct forms and the like. A. P. Terry. 2,389,468; Nov. 20.
Fastening device. E. C. Austin. 2,389,479; Nov. 20.
Fastening means. J. W. Simmons. 2,389,278; Nov. 20.
Feed for drapers, Supplemental. E. C. Graves. 2,389,193; Nov. 20.
Feeder: *See*—
Solids feeder.
Feeding device, Web. R. A. Lake. 2,389,200; Nov. 20.
Fence, Snow. P. Tholstrup. 2,389,395; Nov. 20.
Film holder. E. G. Forssell. 2,389,495; Nov. 20.
Filter. W. W. Hallman. 2,389,431; Nov. 20.
Filter bed cleaning. P. B. Streander. 2,389,329; Nov. 20.
Filter: *See*—
Portable filter.
Filter material. R. Karlström. 2,389,435; Nov. 20.
Fire extinguisher. G. G. Griswold and F. J. Lee. 2,389,501–2; Nov. 20.
Fishing lure. V. R. Evans. 2,389,423; Nov. 20.
Fishing reel. J. T. King. 2,389,515; Nov. 20.
Fixture: *See*—
Surgical fixture.
Flexible mounting device. H. A. Storch. 2,389,502; Nov. 20.
Flint alloy. H. Kent. 2,389,198; Nov. 20.
Flow, Control valve. C. A. Brown. 2,389,124; Nov. 20.
Flue insert for regenerative furnaces and the like. J. J. Seaver. 2,389,166; Nov. 20.
Fluid meter. R. H. Barge. 2,389,125; Nov. 20.
Flux valve. C. F. Fragola, M. C. Depp, and R. S. Curry, Jr. 2,389,146; Nov. 20.
Folding the ends of collapsible tubes. M. Hallead and P. R. Fechheimer. 2,389,506; Nov. 20.
Foot cover. W. E. Crofut, Jr. 2,389,414; Nov. 20.
Forging, Method and apparatus for. E. R. Frost. 2,389,425; Nov. 20.
Form for constructing steps. R. O. Zimmerman. 2,389,397; Nov. 20.
Foundry composition. A. E. Pavlish and C. R. Austin. 2,389,538–43; Nov. 20.
4' methoxy 5 halogeno diphenylamine 2' carboxyl compound and producing the same. E. A. H. Friedheim and E. Bergmann. 2,389,147; Nov. 20.
Friction spring. L. E. Endsley. 2,389,300; Nov. 20.
Fuel cock drive mechanism. H. A. Satterlee. 2,389,461; Nov. 20.
Fuel injector. H. C. Edwards. 2,389,492; Nov. 20.
Furnace: *See*—
Magnesium melting furnace.
Fuse, Bomb nose. A. J. Nicholas. 2,389,383; Nov. 20.
Fuse packing box. F. E. Gross. 2,389,358; Nov. 20.
Garment. A. Friedland. 2,389,192; Nov. 20.
Garment, Foundation. A. M. Butow. 2,389,410; Nov. 20.
Garment, Protection. N. H. Keeler and H. J. Eskelson. 2,389,152; Nov. 20.
Gas burner. R. L. Miller. 2,389,270; Nov. 20.
Gasoline, Production of aviation. J. A. Anderson, Jr. 2,389,176; Nov. 20.
Gauge: *See*—
Optical tool gauge. Rule setting gauge.
Gauging. T. A. Olson and J. Klepak. 2,389,535; Nov. 20.
Gearing. J. U. Signer and L. M. Douglas. 2,389,557; Nov. 20.
Generator: *See*—
Spring motor driven generator.
Glass composition. R. W. Goodwin. 2,389,305; Nov. 20.
Glue bond, Producing weather-resistant. C. N. Cone. 2,389,183; Nov. 20.





Glycerol from fermented liquors, Recovery of. R. A. Walmesley. 2,389,173; Nov. 20.
Grease, Barium calcium magnesium stearate. F. A. Leyda. 2,389,523; Nov. 20.
Grinding machine. W. G. Weesman. 2,389,224; Nov. 20.
Grinding mill. J. R. Hall. 2,389,505; Nov. 20.
Grinding mill. M. M. Spanel. 2,389,242; Nov. 20.
Gun sight. E. G. Reising. 2,389,326; Nov. 20.
Gutter hanger. M. Felder. 2,389,494; Nov. 20.
Halides, Converting organic. D. R. Blumer. 2,389,231; Nov. 20.
Hanger: *See*—
Curtain hanger. Gutter hanger.
Harness for cross-weaving. G. Hilton. 2,389,258; Nov. 20.
Harvester, Peanut. J. T. Thornton. 2,389,567; Nov. 20.
Heat exchange apparatus, Making. J. E. Woods. 2,389,175; Nov. 20.
Heater: *See*—
Recirculation insulated space heater.
Heating appliance. A. P. Livar. 2,389,264; Nov. 20.
Heating, drying, and air conditioning apparatus. E. B. Hough. 2,389,433; Nov. 20.
High-pressure hydraulic pump. R. L. Levy. 2,389,374; Nov. 20.
Holder: *See*—
Bottle holder. Electrode holder.
Coin holder. Film holder.
Collet holder. Lettering-guide holder.
Holder for electric lamps and the like purposes, Adjustable. J. R. Bateman. 2,389,340; Nov. 20.
Holder for fishing poles. P. S. Odward. 2,389,384; Nov. 20.
Homogenizing machine. J. M. Colony. 2,389,486; Nov. 20.
Hood, Inhalant. J. A. Blosser. 2,389,293; Nov. 20.
Hunting mechanism. N. F. Andrews. 2,389,462; Nov. 20.
Hydraulic brake. R. R. Birchfield. 2,389,406; Nov. 20.
Hydraulic motor. T. F. Stacy. 2,389,166; Nov. 20.
Hydrocarbon, Dehydrogenating. H. M. Singleton. 2,389,215; Nov. 20.
Hydrocarbons, Conversion of. J. A. Reid. 2,389,240; Nov. 20.
Hydrocarbons, Method and apparatus for the conversion of. L. P. Evans. 2,389,493; Nov. 20.
Hydrocarbons, Production of olefinic. H. S. Bloch and R. E. Schaad. 2,389,406; Nov. 20.
Hydrocarbons, Separation of. T. W. Evans and R. C. Morris. 2,389,144; Nov. 20.
Hydrocarbons, Treating. D. E. Blumer. 2,389,230; Nov. 20.
Hydrogen halides, Purification of. H. Pines and H. S. Bloch. 2,389,457; Nov. 20.
Injector operating means. O. E. Watson. 2,389,475; Nov. 20.
Inks, Printing. J. W. Kroeger and D. J. O'Connor, Jr. 2,389,371; Nov. 20.
Instrument for indicating pressures suited to various speeds. A. C. Staley. 2,389,231; Nov. 20.
Insulation, Electrical. L. McCulloch. 2,389,379; Nov. 20.
Isomerization. A. W. Francis and W. H. James. 2,389,250; Nov. 20.
Jig, Center sill. A. W. Maulding. 2,389,526; Nov. 20.
Jig for use in drilling and like operations. S. H. Tillett. 2,389,242; Nov. 20.
Key container. E. H. Geffner. 2,389,434; Nov. 20.
Knitting machine. W. D. Kellogg and J. Fradenburgh. 2,389,154; Nov. 20.
Knitting machine. F. R. Page. 2,389,209; Nov. 20.
Knockdown box. H. C. Skeff. 2,389,580; Nov. 20.
Launching means, Airplane troop. F. G. Manson and J. J. Maskey. 2,389,160; Nov. 20.
Lecher wire system. C. N. Smyth. 2,389,167; Nov. 20.
Lettering-guide holder. G. J. Forslund. 2,389,303; Nov. 20.
Light: *See*—
Buoyant safety light.
Limit switch. D. W. Exner. 2,389,350; Nov. 20.
Liquid fuel, Storing. M. C. Snyder. 2,389,168; Nov. 20.
Locking device. O. De Cardy. 2,389,424; Nov. 20.
Locking mechanism for electric switches. J. M. Anderson. 2,389,400; Nov. 20.
Logging, Well. D. Silverman. 2,389,241; Nov. 20.
Lubricant, Pneumatic tool. D. L. Wright. 2,389,227; Nov. 20.
Lubricants. R. F. McCleary. 2,389,527; Nov. 20.
Lubricating composition. L. C. Kemp, Jr. 2,389,513; Nov. 20.
Machine for honing tooth grooves of gear finishing tools. W. F. Rass. 2,389,549; Nov. 20.
Machine for winding the stators of electric motors. O. Wirth. 2,389,336; Nov. 20.
Magnesium melting furnace. H. M. Griffoul. 2,389,307; Nov. 20.
Magnifying device. R. F. E. Stegeman. 2,389,262; Nov. 20.
Malononitrile, Manufacture of. A. R. Surrey. 2,389,217; Nov. 20.
Manometer. A. A. Hejduk. 2,389,508; Nov. 20.
Match compositions. A. H. Sanford. 2,389,552; Nov. 20.
Mechanical movement. J. J. Moynihan. 2,389,451; Nov. 20.
Mechanism for relieving the teeth of circular cutting elements. R. W. Andreasson. 2,389,401; Nov. 20.
Mechanism for supporting and automatically adjusting arc furnace electrodes. W. H. Payne. 2,389,164; Nov. 20.
Merry-go-round on water. K. H. Piesch. 2,389,456; Nov. 20.
Meter: *See*—
Fluid meter.
Mill: *See*—
Grinding mill.
Milling and like machine for copying and reproducing. J. T. Bolas. 2,389,407; Nov. 20.
Mixing, kneading, shredding, pulping, and like machines. J. E. Pointon. 2,389,545; Nov. 20.
Mixture control. R. K. Thompson and K. B. Dixon. 2,389,219; Nov. 20.
Molding press. F. J. Stokes, Jr., and L. H. Bailey. 2,389,561; Nov. 20.
Mop, Reefer's. B. A. Olsen, E. T. Combs, and J. H. Nelson. 2,389,322; Nov. 20.
Motor: *See*—
Hydraulic motor.
Reversible single-phase motor.
Mounting: *See*—
Ophthalmic mounting.
Mounting for oil well masts, Fast sheave. H. J. Woodslayer, E. A. Campbell, and C. Jenkins. 2,389,226; Nov. 20.
Mounting for rock drills. O. H. Sellars. 2,389,553; Nov. 20.
Mounting for rock drills. F. M. Slater. 2,389,558; Nov. 20.
Multiple-saver vending machine. H. T. Larimore. 2,389,442; Nov. 20.
Needle, Surgical. P. P. Goland and C. R. Drew. 2,389,355; Nov. 20.
Nut device, Tension. W. H. Churchill. 2,389,122; Nov. 20.
Nut, Fastening. J. C. Lang. 2,389,261; Nov. 20.
Nut for flanged tubing conduits, Coupling. I. Cowles. 2,389,223; Nov. 20.
Nut, Lock. R. C. Manning. 2,389,377; Nov. 20.
Oil and making same, Selectively hydrogenated tall. J. A. V. Turck, Jr., and J. Ross. 2,389,284; Nov. 20.
Oil products and making the same, Condensed halogenated tall. E. Lieber. 2,389,203; Nov. 20.
Oil, Refining of coke-oven light. E. J. C. van der Hoeven and J. W. Unroe. 2,389,172; Nov. 20.
Oiling machine, Multiple jewel. P. N. Pares and G. W. Grisdale, Jr. 2,389,537; Nov. 20.
Ophthalmic mounting. J. W. Aspenleiter. 2,389,116; Nov. 20.
Optical device. G. E. Guellich and A. A. Gradisar. 2,389,503; Nov. 20.
Optical device. J. R. Kerry. 2,389,155; Nov. 20.
Optical instrument. G. R. Gallasch. 2,389,252; Nov. 20.
Optical tool gauge. W. F. Peck and G. E. Guellich. 2,389,544; Nov. 20.
Organic compounds, Oxidation of. J. G. N. Drewitt. 2,389,187; Nov. 20.
Oscillating or reversing mechanism. J. W. Conlon. 2,389,232; Nov. 20.
Paddle, Swimming. A. L. Harmon. 2,389,196; Nov. 20.
Painting machine. J. Brzeski. 2,389,409; Nov. 20.
Paper, Manufacture of. M. A. Goldman. 2,389,254; Nov. 20.
Parachute pack. J. R. C. Quilter. 2,389,578; Nov. 20.
Phonograph. D. C. Rockola, L. E. Dettle, and E. L. Triman. 2,389,327; Nov. 20.
Picker and joint structure therefor, Loom. O. A. Kettemann. 2,389,157; Nov. 20.
Picker, Corn. J. L. Aasland. 2,389,478; Nov. 20.
Pilot instructing device. H. B. Grow. 2,389,259; Nov. 20.
Pipe-cutting machine. M. C. Smetzer. 2,389,463; Nov. 20.
Piston ring. C. F. Engelhardt. 2,389,141; Nov. 20.
Pitch change mechanism for dual rotation propellers, Controllable. H. M. McCoy. 2,389,161; Nov. 20.
Plaque, Casket. J. G. Meadows. 2,389,447; Nov. 20.
Plastic composition. W. W. Koch. 2,389,270; Nov. 20.
Plasticised compositions. R. T. Dean and E. O. Hook. 2,389,489; Nov. 20.
Pneumatic hammer testing machine. H. V. Cordiano, J. J. De Paolo, and H. Lacks. 2,389,138; Nov. 20.
Polyhydric alcohols, Manufacture of. H. Dreyfus. 2,389,247; Nov. 20.
Portable filter. L. S. Farrell. 2,389,189; Nov. 20.
Portable tool. A. G. Imhof and L. Hoyler. 2,389,314; Nov. 20.
Press: *See*—
Baling press. Molding press.
Pressure vessel closure. H. A. Buehner. 2,389,118; Nov. 20.
Preventing backflow or back-siphonage in a pressure system. F. Carlton. 2,389,413; Nov. 20.
Preventing deterioration in rail fastenings and the like. J. R. Snyder. 2,389,464; Nov. 20.
Printing process for textiles. A. Wlasmitinow. 2,389,245; Nov. 20.
Projectile, Automatically detonated. L. J. Anderson. 2,389,288; Nov. 20.

Protective device for electrical apparatus. M. G. Leonard. 2,389,373; Nov. 20.
Protein compositions and masses having improved physical characteristics, Preparation of. J. Bjorksten. 2,389,292; Nov. 20.
Pump: *See*—
High-pressure hydraulic pump.
Pump control system. R. C. Dustin. 2,389,348; Nov. 20.
Pump for internal-combustion engines, Fuel. W. W. Lowther. 2,389,150; Nov. 20.
Pump oiler. H. Lainson and A. J. Semotan. 2,389,518; Nov. 20.
Purifying and cooling system for lubricating oils. L. P. Sharples. 2,389,555; Nov. 20.
Rack: *See*—
Bomb rack.
Radiator valve. F. B. Rutherford and J. V. Vulpen. 2,389,387; Nov. 20.
Razor, Safety. G. E. Traynham. 2,389,470; Nov. 20.
Reaction process. W. Davey. 2,389,246; Nov. 20.
Receptacle. R. G. Owen. 2,389,385; Nov. 20.
Recirculation insulated space heater. A. P. Livar. 2,389,265; Nov. 20.
Reel: *See*—
Fishing reel.
Refrigerating apparatus. A. A. Kucher. 2,389,440; Nov. 20.
Refrigerating storage apparatus. R. Matthei. 2,389,267; Nov. 20.
Refrigeration. W. H. Kitto. 2,389,317; Nov. 20.
Regenerating exhaled air. N. Herzmark. 2,389,309; Nov. 20.
Regulating system. H. C. Jenks. 2,389,364; Nov. 20.
Regulating system. S. J. Mikina. 2,389,382; Nov. 20.
Regulator: *See*—
Electric regulator.
Release device for safety roof exits. R. Kerr. 2,389,315; Nov. 20.
Removing hair from the human body, Method and apparatus for. V. Arnold. 2,389,403; Nov. 20.
Removing impurities from unsaturated hydrocarbons by means of organometallic compounds. R. A. Franz. 2,389,251; Nov. 20.
Repellents, Insect. S. I. Gertler. 2,389,427; Nov. 20.
Resilient tire and the like. E. Hajos. 2,389,430; Nov. 20.
Resins from coke oven gas, Production of. J. H. Wells and P. J. Wilson, Jr. 2,389,570; Nov. 20.
Resins, Polysiloxane. J. G. E. Wright and J. Marsden. 2,389,477; Nov. 20.
Retaining device. A. Constance. 2,389,344; Nov. 20.
Reticles or the like, Making. G. E. Guellich. 2,389,504; Nov. 20.
Retort for packaged food. D. Bensel. 2,389,117; Nov. 20.
Reversible single-phase motor. A. McLennan. 2,389,381; Nov. 20.
Rivet set forming tool. F. E. Keller. 2,389,197; Nov. 20.
Road sign or signal. R. T. Harrison. 2,389,234; Nov. 20.
Roasting coffee. R. F. O'Toole and A. C. Parlini. 2,389,577; Nov. 20.
Ring: *See*—
Piston ring.
Rods, Manufacturing stopper. J. T. Labadie. 2,389,517; Nov. 20.
Root harvesting machine. E. Cadieux. 2,389,411; Nov. 20.
Rotary milling tool. W. C. Harrison. 2,389,235; Nov. 20.
Rule setting gauge. C. F. Kirby. 2,389,316; Nov. 20.
Sample taking apparatus, Side wall. W. P. Orr. 2,389,208; Nov. 20.
Scale, Computer. H. B. Kittleson. 2,389,369; Nov. 20.
Screw driver, Universal. J. H. Bishop. 2,389,129; Nov. 20.
Screw-top jar wrench. C. Escher. 2,389,301; Nov. 20.
Sealing device. J. W. McConaghy. 2,389,528; Nov. 20.
Selective fading, Reduction of. H. E. Goldstine. 2,389,356; Nov. 20.
Separation process. J. D. Fitzpatrick and L. D. Myers. 2,389,191; Nov. 20.
Separator. J. Blizard. 2,389,130; Nov. 20.
Sewage clarification and sludge removal, System of. L. B. Griffith. 2,389,357; Nov. 20.
Sextant. O. E. Esval and W. Wrigley. 2,389,143; Nov. 20.
Sextant, Gyro-stabilized. O. E. Esval and W. Wrigley. 2,389,142; Nov. 20.
Shear. F. T. Neale. 2,389,531; Nov. 20.
Sheet feeding apparatus. L. Baker. 2,389,480; Nov. 20.
Shield assembly for air scoops or the like. W. H. Hunter. 2,389,313; Nov. 20.
Shock absorber. W. A. Geiger. 2,389,304; Nov. 20.
Shock absorbing mechanism, Friction. E. H. Lehman. 2,389,262; Nov. 20.
Shoe, Arch supporter. W. Grebow. 2,389,148; Nov. 20.
Shoe, Track. H. A. Knox. 2,389,156; Nov. 20.
Shoe, Track. H. A. Knox. 2,389,438; Nov. 20.
Signal: *See*—
Road sign or signal.
Signal discharger, Multiple. C. McInnes, Jr. 2,389,162; Nov. 20.
Slacks. M. E. Novak. 2,389,273; Nov. 20.
Slipper. E. Schwartz. 2,389,554; Nov. 20.
Solenoid speaker, Combination. B. A. Schwarz. 2,389,212; Nov. 20.
Solids feeder. P. E. Thomas. 2,389,566; Nov. 20.
Sorting machine, Card. R. Connor. 2,389,343; Nov. 20.
Spark plugs, Resistor for. L. L. Stoffel. 2,389,466; Nov. 20.
Spectacle and telescope, Combined. C. J. Glasser. 2,389,428; Nov. 20.
Speed control mechanism for cutoffs. H. C. Behrens. 2,389,341; Nov. 20.
Spot-welding machine. A. Pedley. 2,389,324; Nov. 20.
Spring: *See*—
Friction spring.
Spring motor driven generator. R. A. Kennedy. 2,389,514; Nov. 20.
Sprinkler head. E. Tyden. 2,389,331–4; Nov. 20.
Square plug flanger. E. V. Crane and F. G. Auer. 2,389,139; Nov. 20.
Steel, Producing high-tensile strength deep-drawing. J. W. Kinnear, Jr. 2,389,516; Nov. 20.
Steel, Production of electric silicon. J. D. Gat. 2,389,497; Nov. 20.
Steering mechanism for motor road vehicles. G. R. G. Gates. 2,389,498; Nov. 20.
Stitch sewing machine, Special. C. W. Johnson. 2,389,151; Nov. 20.
Strap fastener. W. G. Vasey. 2,389,335; Nov. 20.
Structure and structural element, Composite. W. A. Phillips. 2,389,238; Nov. 20.
Structures and related articles and making the same, Plywood. G. F. D'Alelio. 2,389,418; Nov. 20.
Structures, Differential widening means for control. K. O. Kearney. 2,389,436; Nov. 20.
Styrene, Manufacture of. W. J. Mattox. 2,389,444; Nov. 20.
Sulphones and preparing same. L. L. Bambas. 2,389,127–8; Nov. 20.
Sulphones and their preparation, Therapeutically useful. L. L. Bambas. 2,389,126; Nov. 20.
Supervisory system and preceptive indicator therefor. R. H. Whempner. 2,389,476; Nov. 20.
Support: *See*—
Tool support.
Support or brace. H. Eastman. 2,389,349; Nov. 20.
Surgical fixture. W. L. Mermis. 2,389,269; Nov. 20.
Switch: *See*—
Limit switch.
Switching apparatus. B. D. Willis. 2,389,571; Nov. 20.
Synthetic camphor, Manufacture of. F. Schwartz. 2,389,389; Nov. 20.
Tank and other vehicles, Insulated military. J. L. Reynolds. 2,389,579; Nov. 20.
Tank circuit. I. E. Mouromtseff and G. M. Dinnick. 2,389,271; Nov. 20.
Tap. J. A. E. Romanoski. 2,389,548; Nov. 20.
Telemetering arrangement. T. R. Rayner and G. A. Burns. 2,389,275; Nov. 20.
Telemetering system, Totalizing. H. D. Middel. 2,389,449; Nov. 20.
Telephone system. P. Bakker. 2,389,290; Nov. 20.
Temperature in endothermic and exothermic reactions, Control of reaction. L. A. Mekler. 2,389,448; Nov. 20.
Temperature relief valve. L. J. Kmiecik. 2,389,437; Nov. 20.
Tester for wells. G. A. Humason. 2,389,512; Nov. 20.
Testing means. G. F. Fermier. 2,389,190; Nov. 20.
Textile and making same. C. A. Castellan. 2,389,120; Nov. 20.
Textile drawing mechanism. R. D. Tarr. 2,389,581; Nov. 20.
Thermal insulation and manufacture. H. H. Rinehart. 2,389,460; Nov. 20.
Thermal treatment. R. T. Wood and M. E. Gantz. 2,389,583; Nov. 20.
Thermionic valve apparatus. R. L. Fortescue. 2,389,145; Nov. 20
Thermometer case. A. C. Bruns. 2,389,485; Nov. 20.
Thermostat. W. B. Griffith. 2,389,429; Nov. 20.
Thread controlling device for sewing machines. F. Ashworth. 2,389,124; Nov. 20.
Time recorder, Card. J. A. Dell and H. E. Hobby. 2,389,345; Nov. 20.
Timer for toasters and the like. A. J. Huck. 2,389,434; Nov. 20.
Timing device for power transmission systems. H. F. Vickers. 2,389,473; Nov. 20.
Tobacco feeding device. G. Zint. 2,389,398; Nov. 20.
Toilet, Ventilated. A. P. Riedele. 2,389,165; Nov. 20.
Tool: *See*—
Portable tool.
Rivet set forming tool.
Rotary milling tool.
Tool support. E. E. Crane. 2,389,296; Nov. 20.
Towing cables and the like, Cutting off. S. G. A. Mandin. 2,389,376; Nov. 20.
Toy, Balancing. K. W. Johnson. 2,389,365; Nov. 20.
Toy electric rolling stock, Current collector for. R. G. Smith. 2,389,280; Nov. 20.
Toy, Figured wheeled. F. Townsley. 2,389,568; Nov. 20.
Trailer, Boat launching. F. J. Zorc, Jr. 2,389,338; Nov. 20.
Trailer, Low bed. R. W. Pointer. 2,389,211; Nov. 20.
Transmission. A. Y. Dodge. 2,389,186; Nov. 20.
Transmission device. J. J. Dugas. 2,389,490; Nov. 20.





Transmitter, Fluid power. L. E. La Brie. 2,389,441; Nov. 20.
Transmitter, Telephone call. T. L. Dowey. 2,389,247; Nov. 20.
Transmitting unit, Power. P. V. Whitworth. 2,389,174; Nov. 20.
Tripentaerythritol octanitrate, Preparation of. J. A. Wyler. 2,389,228; Nov. 20.
Truck brake. W. L. Nance. 2,389,320; Nov. 20.
Truck, Carboy. E. W. Burke. 2,389,294; Nov. 20.
Truck, Lift. W. Stuebing, Jr. 2,389,563; Nov. 20.
Truck, Railway car. G. E. Dath. 2,389,123; Nov. 20.
Truck, Railway car. R. Leppla. 2,389,521; Nov. 20.
Tube: *See*—
Air cleaner equipped filler tube.
Tuning mechanism. B. A. Schwarz. 2,389,213; Nov. 20.
Tuning structure for radio sets. S. S. Cramer. 2,389,487; Nov. 20.
Turnbuckle wrench. J. H. Dye. 2,389,248; Nov. 20.
Turning machine. W. Siegerist. 2,389,556; Nov. 20.
2:3 butanediol, Producing. A. J. Liebmann and G. de Becze. 2,389,263; Nov. 20.
Typewriters, Roll for. R. A. Gordon. 2,389,499; Nov. 20.
Unsaturated compounds, Producing. H. G. Kirschenbauer. 2,389,260; Nov. 20.
Vacuum condenser. E. J. Murphy. 2,389,207; Nov. 20.
Valve: *See*—
Antibackflow and antisiphonage valve.
Flow control valve.
Flux valve.
Radiator valve.
Temperature relief valve.
Valve. V., G., W., and M. Crevatin. 2,389,297; Nov. 20.
Valve. L. S. Hamer. 2,389,194; Nov. 20.
Valve mechanism for pressure cookers. A. R. Thompson. 2,389,330; Nov. 20.
Valve retainer. R. Leppla. 2,389,522; Nov. 20.
Vaporization, Method and apparatus for controlling. T. H. Whaley, Jr. 2,389,244; Nov. 20.
Wheat, Treatment of insect-damaged. C. H. Evans. 2,389,302; Nov. 20.
Wheel assembly, Dual. C. S. Ash. 2,389,339; Nov. 20.
Wheel mounting for aircraft. L. W. Manheim, Sr. 2,389,525; Nov. 20.
Winch. C. F. Ball. 2,389,177; Nov. 20.
Window and improved construction therefor. S. Hellman. 2,389,509; Nov. 20.
Wire container. R. P. Messenger, L. H. Kaupke, and R. R. Raney. 2,389,529; Nov. 20.
Wood, Treatment of. C. I. Haney, M. E. Martin, and T. E. McGoury. 2,389,195; Nov. 20.
Wrench: *See*—
Screw-top jar wrench.
Turnbuckle wrench.

# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 20, 1945

**In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.**

NOTE.—First number—class, second number—subclass, third number—patent number

2— 2: 2,389,152
15: 2,389,223
38: 2,389,410
42: 2,389,450
74: 2,389,192
96: 2,389,226
2,389,299
227: 2,389,273
4— 185: 2,389,362
217: 2,389,165
8— 70: 2,389,345
119: 2,389,254
9— 8.3: 2,389,206
21: 2,389,196
10— 147: 2,389,548
13— 29: 2,389,218
15— 147: 2,389,322
17— 11.1: 2,389,404
18— 6: 2,389,178
16: 2,389,561
24: 2,389,319
30: 2,389,169
54: 2,389,292
19— 130: 2,389,581
20— 4: 2,389,573
56.5: 2,389,375
89: 2,389,418
22— 188: 2,389,538
2,389,539
205: 2,389,516
217: 2,389,540
2,389,541
2,389,542
2,389,543
23— 1: 2,389,448
4: 2,389,309
110: 2,389,352
154: 2,389,457
298: 2,389,204
24— 71: 2,389,335
202: 2,389,272
205: 2,389,565
221: 2,389,121
2,389,344
25— 22: 2,389,163
87: 2,389,474
118: 2,389,397
28— 73: 2,389,120
80: 2,389,216
2,389,421
29— 148: 2,389,517
30— 41: 2,389,470
33— 21: 2,389,286
58: 2,389,326
70: 2,389,249
75: 2,389,303
103: 2,389,316
111: 2,389,360
34— 76: 2,389,452
87: 2,389,433
35— 12: 2,389,359
48: 2,389,394
36— 2.5: 2,389,554
8.5: 2,389,148
10: 2,389,414
37— 153: 2,389,199
40— 130: 2,389,234
152.1: 2,389,511
43— 42: 2,389,423
46— 106: 2,389,568
134: 2,389,365
47— 41: 2,389,447
62: Pl.Pt.661
49— 82: 2,389,360
51— 58: 2,389,549
96: 2,389,401
100: 2,389,224
156: 2,389,537
163: 2,389,337

51— 208: 2,389,462
2,389,491
52— 27: 2,389,552
56— 18: 2,389,478
344: 2,389,567
60— 53: 2,389,196
2,389,473
54: 2,389,174
2,389,441
2,389,530
61— 48: 2,389,353
62— 104: 2,389,267
106.5: 2,389,317
63— 14: 2,389,295
2,389,481
65— 45: 2,389,385
66— 48: 2,389,209
86: 2,389,154
72— 110: 2,389,238
118: 2,389,171
73— 11: 2,389,138
112: 2,389,281
134: 2,389,361
2,389,572
374: 2,389,485
401: 2,389,508
426: 2,389,530
74— 5: 2,389,158
310: 2,389,484
395: 2,389,451
410: 2,389,557
421: 2,389,461
503: 2,389,259
75— 22: 2,389,419
2,389,420
152: 2,389,198
77— 1: 2,389,197
55: 2,389,314
62: 2,389,184
2,389,243
78— 39: 2,389,425
81— 3 43: 2,389,301
13: 2,389,248
82— 20: 2,389,556
85— 32: 2,389,261
2,389,278
40: 2,389,479
86— 47: 2,389,285
88— 2.2: 2,389,142
2.3: 2,389,143
14: 2,389,544
20: 2,389,155
24: 2,389,535
33: 2,389,252
39: 2,389,282
2,389,503
41: 2,389,428
47: 2,389,116
89— 1: 2,389,162
1.5: 2,389,202
90— 13.5: 2,389,407
20: 2,389,201
91— 25: 2,389,276
50: 2,389,409
95— 5.7: 2,389,504
6: 2,389,575
97— 170: 2,389,422
98— 1: 2,389,313
40: 2,389,310
96: 2,389,509
99— 68: 2,389,577
91: 2,389,302
350: 2,389,117
100— 23: 2,389,510
102— 70.2: 2,389,288
81.2: 2,389,393
103— 44: 2,389,159
153: 2,389,475
178: 2,389,374

105— 190: 2,389,521
197: 2,389,123
106— 15: 2,389,229
30: 2,389,371
53: 2,389,305
179: 2,389,354
189: 2,389,370
110— 45: Re.22,694
112— 2: 2,389,388
59: 2,389,124
171: 2,389,151
113— 54: 2,389,506
99: 2,389,526
112: 2,389,175
117— 65: 2,389,379
102: 2,389,459
122: 2,389,469
125: 2,389,386
352: 2,389,241
121— 41: 2,389,274
68: 2,389,125
97: 2,389,232
194: 2,389,140
123— 189: 2,389,492
125— 20: 2,389,188
126— 110: 2,389,265
116: 2,389,264
127— 40: 2,389,119
128— 1: 2,389,269
140: 2,389,293
214: 2,389,355
129— 16.1: 2,389,343
130— 5: 2,389,402
131— 38: 2,389,256
44: 2,389,396
136— 26: 2,389,465
137— 21: 2,389,168
78: 2,389,413
138— 45: 2,389,134
74: 2,389,468
139— 50: 2,389,258
159: 2,389,157
267: 2,389,471
143— 46: 2,389,296
144— 309: 2,389,183
145— 50: 2,389,129
148— 21.3: 2,389,583
21.5: 2,389,497
150— 40: 2,389,426
151— 7: 2,389,377
33: 2,389,122
152— 21: 2,389,430
153— 25: 2,389,139
32: 2,389,306
154— 42: 2,389,560
43: 2,389,210
158— 104: 2,389,270
161— 1: 2,389,434
164— 0.8: 2,389,235
47: 2,389,376
56: 2,389,531
68: 2,389,341
167— 33: 2,389,427
65: 2,389,582
169— 32: 2,389,501
2,389,502
37: 2,389,331
2,389,332
40: 2,389,333
2,389,334
170—135.6: 2,389,161
171— 76: 2,389,514
95: 2,389,393
119: 2,389,364
324: 2,389,214
172— 179: 2,389,367
239: 2,389,368
2,389,382
279: 2,389,381

173— 324: 2,389,467
328: 2,389,454
340: 2,389,255
363: 2,389,455
174— 86: 2,389,340
175— 41: 2,389,207
183: 2,389,190
294: 2,389,396
320: 2,389,564
364: 2,389,391
2,389,507
366: 2,389,363
177— 311: 2,389,476
338: 2,389,323
351: 2,389,146
2,389,275
2,389,449
353: 2,389,571
380: 2,389,247
178— 42: 2,389,200
44: 2,389,167
2,389,472
179— 2.5: 2,389,257
17: 2,389,290
171.5: 2,389,145
180— 1: 2,389,579
17: 2,389,498
22: 2,389,339
49: 2,389,225
69: 2,389,435
77: 2,389,130
115: 2,389,144
184— 11: 2,389,137
188— 21: 2,389,320
74: 2,389,424
78: 2,389,311
152: 2,389,405
189— 29: 2,389,149
34: Re.22,693
192— 53: 2,389,490
196— 5: 2,389,328
8: 2,389,570
9: 2,389,342
52: 2,389,176
2,389,256
2,389,378
2,389,399
2,389,493
71: 2,389,244
197— 144: 2,389,499
180: 2,389,408
198— 9: 2,389,411
32: 2,389,496
33: 2,389,287
53: 2,389,566
166: 2,389,193
176: 2,389,279
211: 2,389,340
200— 19: 2,389,446
47: 2,389,350
61.5: 2,389,373
83: 2,389,436
89: 2,389,400
120: 2,389,392
140: 2,389,429
150: 2,389,316
172: 2,389,220
201— 51: 2,389,321
63: 2,389,466
202— 40: 2,389,172
204— 45: 2,389,131
49: 2,389,135
2,389,179
2,389,180
2,389,181
206— 0.82: 2,389,312
65: 2,389,358
210— 8: 2,389,357
16: 2,389,189

210— 62: 2,389,555
120: 2,389,431
128: 2,389,329
152: 2,389,306
155: 2,389,185
211—105.2: 2,389,546
214— 77: 2,389,221
83: 2,389,483
85: 2,389,338
215— 11: 2,389,390
219— 4: 2,389,324
8: 2,389,559
2,389,569
220— 46: 2,389,118
222— 340: 2,389,518
226— 127: 2,389,268
229— 5.5: 2,389,547
5.6: 2,389,534
14: 2,389,291
23: 2,389,580
28: 2,389,318
29: 2,389,222
230— 18: 2,389,348
234— 43: 2,389,345
235— 60: 2,389,182
236— 9: 2,389,439
10: 2,389,519
36: 2,389,387
80: 2,389,437
238— 366: 2,389,464
241— 103: 2,389,242
256: 2,389,565
242— 1: 2,389,336
79: 2,389,443
84.5: 2,389,515
129: 2,389,529
244— 3: 2,389,132
17: 2,389,170
103: 2,389,525
137: 2,389,160
148: 2,389,578
246— 195: 2,389,290
248— 42: 2,389,384
48.1: 2,389,494
142: 2,389,482
300: 2,389,522
358: 2,389,562
250— 3: 2,389,432
6: 2,389,356
20: 2,389,212
255— 1.4: 2,389,208
2,389,512
51: 2,389,532
2,389,553
2,389,558
256— 12.5: 2,389,395
257— 3: 2,389,440
259— 10: 2,389,496
129: 2,389,545
260— 2: 2,389,477
22: 2,389,260
36: 2,389,460

260— 35: 2,389,489
42: 2,389,417
69: 2,389,416
70: 2,389,150
2,389,415
92.6: 2,389,576
97.5: 2,389,203
2,389,284
229: 2,389,195
239.6: 2,389,126
2,389,127
2,389,128
397.4: 2,389,325
406: 2,389,191
415: 2,389,245
455: 2,389,153
464: 2,389,217
467: 2,389,228
475: 2,389,136
519: 2,389,147
557: 2,389,453
585: 2,389,500
588: 2,389,389
603: 2,389,187
635: 2,389,347
637: 2,389,173
2,389,263
660: 2,389,230
669: 2,389,215
2,389,251
2,389,444
671: 2,389,445
680: 2,389,231
681: 2,389,205
683.2: 2,389,406
683.4: 2,389,550
683.5: 2,389,250
683.15: 2,389,240
261— 69: 2,389,219
93: 2,389,524
121: 2,389,488
263— 22: 2,389,307
51: 2,389,166
266— 23: 2,389,239
2,389,463
29: 2,389,133
267— 9: 2,389,262
2,389,300
2,389,304
271— 26.2,389,490
35: 2,389,551
272— 32: 2,389,456
274— 10: 2,389,327
277— 1: 2,389,412
22: 2,389,194
279— 46: 2,389,366
53: 2,389,372
60: 2,389,536
280— 33.1: 2,389,211
34: 2,389,294
50: 2,389,574
285— 122: 2,389,233
286— 11: 2,389,528
287— 76: 2,389,115
292— 21: 2,389,315
294— 25: 2,389,237
302— 37: 2,389,533
305— 9: 2,389,289
2,389,308
10: 2,389,156
2,389,438
308— 238: 2,389,253
309— 45: 2,389,141
311— 18: 2,389,349
312— 36: 2,389,283
87: 2,389,442
314— 61: 2,389,164

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,389,133: | 296— 29 | 2,389,180: | 204— 49 | 2,389,222: | 229— 29 | 2,389,310: | 98— 40 | 2,389,431: | 210—120 | 2,389,527: | 252—32.7 |
| 2,389,135: | 204— 49 | 2,389,181: | 204— 49 | 2,389,244: | 196— 71 | 2,389,318: | 229— 28 | 2,389,442: | 312— 87 | 2,389,546: | 211—105.2 |
| 2,389,150: | 260— 70 | 2,389,184: | 77— 62 | 2,389,260: | 260— 22 | 2,389,322: | 15—147 | 2,389,443: | 242— 79 | 2,389,561: | 18— 16 |
| 2,389,159: | 103— 44 | 2,389,185: | 210—135 | 2,389,264: | 126—116 | 2,389,337: | 51—163 | 2,389,459: | 117—102 | 2,389,576: | 260—92.6 |
| 2,389,178: | 18— 6 | 2,389,189: | 210— 16 | 2,389,265: | 126—110 | 2,389,340: | 174— 86 | 2,389,513: | 252—49.8 | | |
| 2,389,179: | 204— 49 | 2,389,204: | 23—288 | 2,389,292: | 18— 54 | 2,389,349: | 311— 18 | 2,389,516: | 22—205 | | |

## CLASSIFICATION OF DESIGNS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D 3— 4: | Des. 142,936 | D10— 8: | Des. 142,942 | D16— 2: | Des. 142,954 | D34—13: | Des. 142,962 |
| | Des. 142,937 | | Des. 142,943 | D22— 3: | Des. 142,950 | 15: | Des. 142,932 |
| | Des. 142,938 | | Des. 142,944 | D26— 7: | Des. 142,959 | | Des. 142,964 |
| | Des. 142,951 | | Des. 142,945 | | Des. 142,960 | D45— 4: | Des. 142,939 |
| | Des. 142,953 | D12— 4: | Des. 142,930 | D29—23: | Des. 142,966 | | Des. 142,940 |
| D 7— 5: | Des. 142,929 | D14—30: | Des. 142,975 | D30— 1: | Des. 142,961 | | Des. 142,941 |
| D 9— 2: | Des. 142,972 | | Des. 142,976 | D34— 5: | Des. 142,948 | | Des. 142,956 |
| | Des. 142,973 | D16— 2: | Des. 142,949 | | Des. 142,971 | | Des. 142,957 |

| | | | |
|---|---|---|---|
| D45— 4: | Des. 142,958 | D57— 1: | Des. 142,934 |
| 9: | Des. 142,963 | | Des. 142,935 |
| | Des. 142,969 | D71— 1: | Des. 142,955 |
| | Des. 142,970 | | Des. 142,974 |
| D52— 1: | Des. 142,946 | D80— 9: | Des. 142,952 |
| 7: | Des. 142,968 | D81—10: | Des. 142,947 |
| D54—12: | Des. 142,967 | D86— 8: | Des. 142,933 |
| 13: | Des. 142,931 | 10: | Des. 142,965 |

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

### IN RE FLINT

*No. 5,021. Decided June 22, 1945*

[150 F.(2d) 126; 66 USPQ 121]

1. CLAIMS—CONSTRUCTION—"MEDIAN."

"Appellant urges, and we think properly so, that the claims, calling as they do for a 'device for determining the median of a group of quantitative measurements,' for 'movable indicating means operatively connected to said operating means and seriately movable thereby in accordance with the movement thereof,' and for 'means for determining the median value of the group of measurements indicated by the relative positions of said indicating means,' definitely limit the claimed invention to a determination of the median and eliminate or exclude the ascertainment of merely an average."

2. SAME—SAME—"GROUP" AND "SERIATELY."

"We give the word 'group' the meaning which applies to more than two; to 'seriately,' its natural meaning—that is, the movement of the indicating means must be in series or succession, following one after another."

3. SAME—SAME—"MEDIAN."

"The provisions 'A device for determining the median of a group of quantitative measurements' and 'means for determining the median value of the group of measurements indicated by the relative positions of said indicating means' necessarily imply that there must be more than two quantitative measurements."

4. PATENTABILITY—DEVICE FOR DETERMINING THE MEDIAN OF A GROUP OF QUANTITATIVE MEASUREMENTS.

"So far as the instant record shows, this inventor may be regarded as a pioneer in the art. It discloses no other device or means of discovering the median as distinguished from the average; and we think the appealed claims, when construed as we have construed them, are allowable."

APPEAL from the Patent Office. Reversed.

*Mr. G. A. Ellestad* for Flint.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

The Board of Appeals of the United States Patent Office affirmed the decision of the Primary Examiner in finally rejecting, upon the disclosure of a prior art patent, claims 1, 2, 6, and 7 of appellant's application for a patent relating to a median device, and appeal has been taken here from the Board's decision.

Fifteen claims covering the device have been allowed, but the instant claims are broader in scope than those allowed. Claim 1 is illustrative of the subject matter of the appealed claims, and it reads as follows:

1. *A device for determining the median of a group of quantitative measurements* comprising operating means movable for making said measurements, movable indicating means operatively connected to said operating means and *seriately* movable thereby in accordance with movement thereof in making each measurement of the group, said indicating means being constructed and arranged to indicate independently the value of each measurement of said group, and *means for determining the median value of the group of measurements indicated by the relative positions of said indicating means.* [Italics ours.]

The invention relates to a calculating mechanism or device for obtaining the median value of a group of quantitative measurements. In his specification, appellant states that his device may be used with many types of measuring instruments, or may even be used separately from any instrument. The particular embodiment disclosed, however, shows the device adapted to a navigational instrument, such as a bubble octant or bubble sextant. Instruments of that character are used in the art of navigation to determine the altitude of some celestial body. As pointed out in the specification, the customary practice is to make a number of altitude observations or measurements and to determine the median value of the group of measurements, which value is employed in computing latitude and longitude. It is clear from the specification that a device which determines the median value of a group of quantitative measurements performs a function wholly different from any device which merely ascertains the average of such a group.

We have before us one of the commercial instruments built in accordance with the application. Its label states that it is an "Aircraft Octant". It weighs 4 or 5 pounds, has various reflectors, lenses, numeral charts, and a series of disks, all of which function together when used with a battery to determine the median of a group of figures. It is emphasized in the application that for the purposes for which the device is to be used, the ascertainment of the average of a group of figures would be useless, whereas the ascertainment of the median value leads to satisfactory results.

The appealed claims were rejected by the Examiner upon the disclosure of the Walker patent, No. 1,638,973, issued August 16, 1927. The Examiner was of the opinion that the claims did not distinguish over that patent because, in his view, they depend for patentability upon "functions vaguely implied in the word 'seriately'." He was also of the opinion that the word "seriately" did not define structure and was therefore indefinite.

The Board did not expressly disagree with the Examiner, but it went into the whole question, discussed the invention of appellant and the Walker reference in more detail, and showed a thorough knowledge of appellant's contentions and the difference in meaning between the terms "median" and "average." However, it agreed with the Examiner that the claims were broad enough to read upon Walker.

The Walker patent relates to an apparatus to be used to measure distances traveled by ships. We deem it advisable here to set out Fig. 1 of that patent and Fig. 9 of appellant's application.

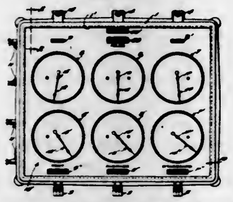
APPELLANT'S DEVICE




Fig. 9

THE WALKER REFERENCE

Fig. 1



It will be observed that Walker has two sets of three dials each, an upper set and a lower set. These sets operate alternately at intervals of one minute. The pointers of the left-hand dials are electrically connected to the port propeller of the ship, and those of the right-hand dials are similarly connected to the starboard propeller. In each set, the pointer of the center dial is connected with those of the left-hand and right-hand dials through a differential mechanism, so that it indicates the average of their movements. At the bottom of Fig. 1 three registers are shown. That at the left indicates the revolutions of the port propeller; that at the right, the revolutions of the starboard propeller; and that at the center, the average. The two sets of dials are operated alternately so as to permit the conversion of propeller rotation indication to an indication of actual distance traveled by the ship.

Walker was interested only in ascertaining the average of two measurements or indications, namely, those of the revolutions of the two propellers. The device of appellant works upon a wholly different principle. Appellant does not seek to ascertain the average between two movements or measurements. For reasons presently stated, we are of the opinion that the record as a whole shows that the whole purpose of appellant's device is to ascertain the median value of more than two measurements.

The Board of Appeals, in affirming the action of the Examiner, stated:

> Appellant argues that the device of Walker operates on an entirely different principle than applicant's device and gains a different end result and that the device of the reference does not provide the median value of the two propeller speeds of a ship but the average of the two speeds as determined by a differential mechanism.
>
> It is not apparent that there is a difference in so far as the claims are concerned in this attempt to distinguish between median value and average. The Walker patent seems to disclose means for making measurements, that is, for counting the number of revolutions and other means for counting another number of revolutions made in the same length of time as the first but different in number and the means for indicating the average of the two is shown in Fig. 1 of the patent. There is also means for indicating the number of revolutions made by each measurement and it is not apparent that merely stating that these means are movable in series or seriately amounts to a patentable structural distinction. The claims do not seem to be limited to any particular number of measurements so that two different measurements as made by the Walker patent and the mean average of these two as shown by the mechanism disclosed in Walker appears to satisfy the terms of the claims.

In support of the decision of the Board, the Solicitor for the Patent Office in this court states, in substance, that the Walker patent does determine a median and is not confined solely to determining an average. He states that one of the definitions of the word "median" given by Webster is "being in the middle; occupying an intermediate position." Then he points to Walker and states that the average reading on the Walker device occupies the middle and therefore is the median. He furthermore argues, in substance, that appellant's device, as disclosed in the specification and claims does not perform a function which is confined to ascertaining the median of more than two measurements, and that therefore the appealed claims are so broad as to read upon a structure which, admittedly, is designed to determine only averages. He seems to have some doubt that there is a difference between a median and an average, for he makes the following statement in his brief:

> Finally, even if "median" were not satisfied by the average of two it is not thought that the broad use of this term in an apparatus claim imparts anything patentable. So far as apparatus is concerned there would seem to be no patentable distinction between indicating a median and an average, assuming them to be different things.

It is clear to us that ascertaining the median of a series or group of more than two numbers or measurements is wholly distinct and entirely different from ascertaining the average; and we think the application of this principle in a composite, workable device, which corrects error and performs a new and useful function, involves invention and is entitled to patent protection commensurate with the scope of the invention.

Appellant, of course, is entitled to such patent protection as he claims in the appealed claims only if they define structure patentably different from the Walker device. The Patent Office tribunals have not complained about the form of the claims. They have not urged that the term "A device for determining the median of a group of quantitative measurements" is merely an introductory clause and not a limitation which may be considered in connection with other features of the claims in determining the patentability thereof. So, we shall spend no time here in discussing the status of the above-quoted clause with reference to its being introductory only, or otherwise.

[1] Appellant urges, and we think properly so, that the claims, calling as they do for a "device for determining the median of a group of quantitative measurements," for "movable indicating means operatively connected to said operating means and seriately movable thereby in accordance with the movement thereof," and for "means for determining the median value of the group of measurements indicated by the relative positions of said indicating means," definitely limit the claimed invention to a determination of the median and eliminate or exclude the ascertainment of merely an average.

It seems to us, therefore, that the first and most important consideration in deciding the instant issue is a determination of what meaning is to be given to the three quoted provisions of the claims. It will be necessary hereinafter to describe the device more definitely in order that the meaning of said provisions may be clearly understood. We shall first consider the meaning of the first and last-quoted provisions.



We here set out the following information from the sources indicated after each quotation:

> median • • • 3. *Statistics.* Designating a point so chosen in a series, that half of the individuals in the series are on one side of it, and half on the other. To illustrate the distinction between *median* and *average*, suppose five persons have wages respectively of $3, $4, $5, $7, and $11. The *average* wage is $6; the *median* wage is $5. (Webster's New International Dictionary, 2d Ed., 1939.)
>
> median • • • (3) *Math.* Of or pertaining to that number of a series which has as many numbers preceding as following it. (Funk & Wagnalls New Standard Dictionary, 1942.)
>
> MEDIAN • • • median of a group of measurements.
>
> The middle measurement, or if there is no middle one, then the one interpolated between the two middle ones. If five students make the grades 60%, 75%, 80%, 95%, and 100%, the median is 80%. [The average would be 82%.] (Mathematics Dictionary, Glenn James, 1943.)
>
> Median • • • 3. *Statistics.* a. Used to designate that quantity which is so related to the quantities occurring in a given set of instances that exactly as many of them exceed it as fall short of it.
>
> Thus, 6 is the median number of the set 1, 1, 2, 6, 20, 20, 27.
>
> • • • 1900 *Boston* (Mass.) *Transcript* Mar., The average age of the population of the United States . . . is twenty-five years; the median age is twenty-one years. The latter means the point at which there are as many people above as below. (Oxford, A New English Dictionary on Historical Principles, 1908.)
>
> MEDIAN, the point on a statistical scale of the distribution of cases, above which and below which lie exactly 50% of the cases. The median is thus a measure of "central tendency." It has the advantage over the arithmetical mean or "average" that it is not affected by unusually high or low values of the variable. For instance, given the values 3, 4, 5, 6, 7, 8, 100, the median is 6, and the arithmetic mean is 19. For some purposes the median value better describes the central tendency of such a series. (Encyclopaedia Britannica, 1942.)
>
> *The median.* The median measure may be defined as the middle or central item when the values are arranged in order of magnitude. If there is an odd number of items it is definitely determined. But if the group has an even number of items an additional convention is needed: if the two centrally placed items are distinguishable, a value half-way between them is usually taken as the median. This measure can often be found without resort to arithmetic. For example, the median height of a class may be found by proceeding as follows. Arrange the students according to height, then march them off by twos, the tallest with the shortest, the next to the tallest with the next to the shortest, and so on. The last person or pair of persons will have the median height, which can then be marked on the blackboard.
>
> Unlike the arithmetic mean, the median is clearly unaffected by extreme variations at the ends of the range. If the tallest student in the room were replaced by a giant, or the shortest by a midget, no change would result in the median. For problems pertaining to wages, gifts, taxes, etc., it is usually more informative to use medians than arithmetic means. If a class of one thousand alumni gave a total of $14,997 to their Alma Mater, the class contributed $15 each "on the average." But if one persons gave $12,000 and the other 999 gave $3 each, the median donation ($3) would be more descriptive of individual contributions than the arithmetic mean. (Mathematics In General Education, Prog. Education Ass'n, 1940, p. 124.)
>
> 1. MEDIAN • • •
>
> In addition to the arithmetic mean, which has been discussed, two other statistical constants are sometimes used to describe the characteristics of a distribution. If a number of individuals differ with respect to a measurable characteristic, they can be arranged in order corresponding to the order of magnitude of the characteristic observed. The median can then be defined as the value of the characteristic which corresponds to the individual in the middle of the series. There will thus be equal numbers of individuals having forms of characteristics higher and lower than the median. Where the individuals are so numerous that they are grouped in classes, the position of the midmost individual can generally be found by interpolation, if the limits of the characteristic for the group are known. When there is an even number of individuals, the value of the median is taken to be half-way between the values of the characteristic pertaining to the two individuals who stand nearest to the middle of the series. (Mathematics For The Million, Hogben, 1943, p. 628.)

From the foregoing, it is obvious that in many instances where more than two numerals are involved, a reliance upon the ascertainment of the average of the numerals would lead one far afield, whereas the ascertainment of the median would bring one closer to the desired result. For instance, aside from the various illustrations that are given in the above-quoted authorities, appellant has afforded what we regard as a very pertinent example—one which no doubt is in line with the use to which the device herein may be put. In his specification appellant states that his device may be adapted for use in the art of gunnery in connection with range finding. At oral argument, appellant gave the following illustration: Suppose it was desired to consider a number of shots, say seven, at a vessel on the water, all of which missed. Six of them were close. None were of exactly the same distance from the ship. The seventh was a wild shot, far away from the others. The one who directed the shots, in order to correct his errors, would not want to take the average because the wild shot would, by application of that principle, put him far away from his objective. But if he should apply the principles as have been announced in the foregoing quotations in determining the median, he would, to say the least, find himself fairly close to the objective.

We think that the provision "A device for determining the median of a group of quantitative measurements" in each of the appealed claims and the clause "means for determining the median value of the group of measurements indicated by the relative positions of said indicating means" (the same structural limitation or a similar one is found in each of the claims) imply that there must be more than two numerals or measurements, and that the use of the term "seriately" in the claims also strengthens this view.

The Solicitor for the Patent Office contended at oral argument that the word "group" may include two; that a group may consist of two quantitative measurements; and that therefore the median between two would be the average, as is shown in Walker. It is our view that ascertaining the median of a group of quantitative measurements necessarily involves the ascertainment of that relation when more numerals or measurements than two are involved. In not one of the above-quoted authorities, nor in any others that we have examined, is there any example or anything else suggesting that the median of a set of two may be determined. We probably could stop here, because Walker is concerned only with two measurements, and he determines the average between the two.

The definition of the word "group" may be broad enough to include two, but appellant's specification and other considerations, and inferences to be drawn from the context of the claims themselves, are all convincing that the claims should be so construed as to cover groups of more than two.

According to the dictionaries, "seriately" means in series, or following one after another. The particular part of appellant's delicate device to which this term is directed consists of a series of seven disks, operable one after another. The Solicitor for the Patent Office has definitely and, we think, properly described this feature of the invention. We quote the following from his brief:

• • • For the purposes of this appeal it is sufficient to refer to Fig. 9 of the application • • •. This figure shows a series of seven disks, 43, which are mounted side by side on the shaft of the instrument. Each disk has a mark 45 on its circumference and, initially, these marks are all in alignment on the so-called fiducial line 45'; and the disks are locked in this position, so that rotation of the shaft does not affect them.

When the first reading is taken the shaft moves to a position corresponding to the reading and, at this time, the operator manually releases one of the disks which, thereafter always moves with the shaft throughout the series of readings. When the second reading is taken, the second disk is similarly released and so on until the series is completed. Since each disk remains fixed to the shaft at a position corresponding to the reading at which it is released, the marks 45 will indicate the relative values of the readings. If all readings were exactly alike, the marks would be in perfect alignment and for different readings, the marks are spaced by amounts corresponding to the differences. If seven readings are taken there will of course, be one mark 45 which lies in the middle. In Fig. 9 this is the mark designated M, since three of the other marks are above it and three below. This is what appellant calls the median mark • • •.

It will be noticed from this description and from Fig. 9, supra, that the disks of the indicating means are seriately movable; that is to say, the disks move in series, one after another. This feature obviously, if it had no other value in the claims, aids in determining the application to be made to the term "A device for determining the median of a group of quantitative measurements". Nothing in Walker is seriately movable. His two measurements are made simultaneously, not one after the other. The structure defined by the claims requires that the measurements be indicated successively, that is, seriately.

There are other limitations in the various claims to which attention could be called, and which we think might be considered in connection with the instant device as distinguishing over the prior art, but we choose to place our holding upon the broader proposition that in the instant appeal the Patent Office has cited no reference which in any sense performs the function or intended purpose of the instant device as is defined by the appealed claims according to our construction of them. We think the claims are allowable.

[2] In summary, we give the word "group" the meaning which applies to more than two; to "seriately," its natural meaning—that is, the movement of the indicating means must be in series or succession, following one after another. As to the word "group," we think it may properly be said here that if it were not for unduly lengthening the opinion, we would freely quote much from appellant's very elaborate specification which would justify our conclusion that when he employed the word "group" in each of the appealed claims, he meant the term to apply to groups of more than two. Before the Board, on petition for reconsideration, appellant proposed by amendment to clarify the meaning of the word so as to limit it to more than two numerals. The Board ruled that the proposed amendment was not properly before it and stated, in substance, that appellant's inference that the Board would have allowed the claims if so amended was not justified by any langauge it used in its first decision. Whether or not the said ruling of the Board was proper is a question not raised in appellant's reasons of appeal here.

[3] The provisions "A device for determining the median of a group of quantitative measurements" and "means for determining the median value of the group of measurements indicated by the relative positions of said indicating means" necessarily imply that there must be more than two quantitative measurements.

[4] So far as the instant record shows, this inventor may be regarded as a pioneer in the art. It discloses no other device or means of discovering the median as distinguished from the average; and we think the appealed claims, when construed as we have construed them, are allowable.

The decision of the Board of Appeals is reversed. Reversed.

---

## U. S. Court of Customs and Patent Appeals

IN RE RUZICKA ET AL.

*No. 5,026. Decided June 22, 1945*

[150 F.(2d) 550; 66 USPQ 226]

1. REISSUE—BROADENED CLAIMS.

Where claim 5 of appellants' reissue application and claim 2 of their patent were identical, except that the latter claim contained the symbol H—CO—O, whereas the former claim contained the symbol RO with the statement that R might be H.CO or H, *Held* that claim 5 of the reissue application was broader than claim 2 of the patent.

2. SAME—SAME—ESTOPPEL.

"In appellants' original application claim 18 was drawn to a compound exactly corresponding to that of claim 2 with H substituted for H.CO. This claim was canceled before the patent was issued. The allowance of claim 5 would, as is urged by the Solicitor, in effect be a reinstatement of the canceled claim or, as the Board expressed it, would allow the appellants to recoup what they gave up by canceling claim 18."

3. CLAIMS—"MARKUSH" TYPE.

*Held* improper to join an alcohol with an ester in a "Markush" group.

4. SAME—SAME.

"We think that under the circumstances we would be wholly unjustified in holding that the alcohols and esters under consideration may be properly classifiable together for Markush claim purposes and in regarding them as equivalents chiefly upon the ground that, as appellants state, 'said compounds are useful as pharmaceuticals (so-called "sex hormones") or as intermediates in the preparation of such pharmaceuticals.' If all things which are useful as pharmaceuticals or as intermediates in the preparation thereof are to be held to be equivalents in the sense in which we are using that term, it is difficult to see how far afield that might lead in the application of the Markush doctrine."

APPEAL from the Patent Office. Affirmed.

*Mr. E. F. Wenderoth* (*Mr. A. Ponack* of counsel) for Ruzicka et al.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

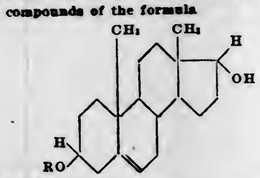
BLAND, *J.*:

Appellants have appealed here from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 5 and 6 of their application for a patent, which claims are concerned with compounds of the so-called "sex hormone" series, consisting of certain esters of androstenediol.



The claims are identical, claim 5 being expressed by chemical symbols and claim 6 being the same formula expressed in words. They are as follows:

5. The compounds of the formula



wherein R=H or H.CO.

6. The $\Delta^{5,6}$-androstene-3-OR-17-ol compounds, R representing H or H.CO.

The instant application is for the reissue of appellants' Patent No. 2,173,425, granted September 19, 1939. The claims were rejected upon two grounds: (1) that they are not patentable over the issue of an interference in which appellants' parent application was involved (the interference was dissolved upon abandonment of the contest by the appellants) and (2) that they are drawn to an improper Markush group.

We think it important to briefly state the facts with reference to both grounds and, by reason of the relation of the first ground to the latter, to discuss both of them.

[1] Claim 5 of the application and claim 2 of the patent are identical except that the patent claim contains the symbol H—CO—O, whereas claim 5 contains the symbol RO with the statement that R may be H.CO or H. Appealed claim 5 is broader than patent claim 2 and covers not only the exact formula of claim 2 but also the formula which is identical with that of claim 2 except that the H.CO is replaced by H. Claim 5 is broader than claim 2 in so far as it includes the elements of claim 2 and more.

[2] In appellants' original application claim 18 was drawn to a compound exactly corresponding to that of claim 2 with H substituted for H.CO. This claim was canceled before the patent was issued. The allowance of claim 5 would, as is urged by the Solicitor, in effect be a reinstatement of the canceled claim or, as the Board expressed it, would allow the appellants to recoup what they gave up by canceling claim 18.

In the prosecution of appellants' parent application, the Examiner required that appellants elect three species and listed claims to seven different species. None of them included claim 18. However, claim 18 was grouped, in effect, by the Examiner with the species of claim 13 in group V, with the statement that "the generic claims are classified as follows and may go with the groups indicated." Appellants elected the species of groups V, VI, and VII. The Examiner finally concluded that, there being no allowable generic claim, appellants should conditionally elect one species under the provisions of rule 41 of the Rules of Practice in the United States Patent Office. Claim 18, as before stated, belonged to the group containing claim 13. The appellants conditionally elected the species of claim 15 for further prosecution pending final determination of the allowability of generic claims. They canceled claims 13 and 18.

Upon the foregoing statement of facts, it was the view of the Board that appellants, in order to obtain a patent, refused to further prosecute claims 13 and 18 and that said claims were canceled for the sole purpose of obtaining a patent, which patent contains no generic claim.

Appellants submit the usual affidavit alleging inadvertence and state that there was no requirement for division; that they did not need to cancel claim 18; and that the cancellation was by virtue of accident and mistake. Just how this mistake occurred is not explained, other than in the foregoing statement of facts.

It is argued by the Solicitor for the Patent Office, in effect, that in this kind of case the determination of the question of inadvertence cannot rest solely upon the sworn statement of an applicant that a claim was omitted by mistake, and that is particularly true when it is apparent that there was a deliberate cancellation for the purpose of obtaining a patent. He relies upon *In re McLean et al.*, 24 C. C. P. A. (Patents) 941, 87 F.(2d) 508, 32 USPQ 386, 481 O. G. 685, and *In re Smyser, Deceased, Etc.*, 30 C. C. P. A. (Patents) 1093, 135 F.(2d) 747, 57 USPQ 402, 555 O. G. 3. He states that while the controverted claims are not identical, where one forfeits the right to obtain a narrow claim, it necessarily involves the forfeiture of the right to later obtain a broader claim to the same subject-matter, citing *In re Stanton*, 24 C. C. P. A. (Patents) 708, 86 F.(2d) 337, 31 USPQ 336, 475 O. G. 453. It is pointed out by the Solicitor in this court that—

Clearly, if this claim cannot be restored by direct action, the appellants should not be allowed to accomplish, by indirection, the exact effect of restoring this claim.

The Board of Appeals, by generally affirming the Examiner's decision, held, in effect, and we think properly so, that under such circumstances the appellants are not now entitled in their present reissue application to have the claims on appeal.

[3] On the question of improper Markush grouping, the Examiner said:

Claims 5 and 6 are under further rejection as being drawn to an improper Markush group. In the compounds claimed when R is H they are alcohols and when it is H.CO— they are formic acid esters of the alcohols. It is submitted that an alcohol and its esters are not properly grouped in a Markush group as they are not deemed to be equivalents. After the abandonment of contest by this applicant a claim to the formate of androstenediol was allowed on the basis that the formate is not equivalent of acetate abandoned by applicant (count 2). Obviously there is less justification for holding an alcohol equivalent of formate than there is for holding two homologous esters as equivalents. If applicants' argument for holding the alcohol as equivalent of formate should be acceded to, then the formate should be held equivalent of the acetate and claim 2 should be held unpatentable over count 2 of said interference.

This would seem to be a clear holding that the alcohols and esters are not properly grouped in a Markush group, since they are, according to the Examiner's statement, not equivalents. This ground of rejection was adhered to by the Examiner in his so-called "Résumé," along with the other ground

that the claims were unpatentable over the issue of the interference.

The decision of the Board is not so full and clear on these issues as it might be. After reviewing the holding of the Examiner and without expressly reversing it, the Board said:

Appellants argue that abandoned count 5 expressly excludes the hydroxy group. It is further argued that it is not obvious that the 3-diol compound would have any pharmaceutical activity, that is, any utility. As count 5 reads, it appears that X represents one group that by hydrolysis could be converted into another group, that is, a hydroxy group and that therefore this count 5 did not include the hydroxy group.

The Examiner also rejected claims 5 and 6 as drawn to an improper Markush group. He states that when R is H the compound is an alcohol and when R is H.CO R is a formic acid ester of the alcohol. In view of the prior record of applicants as to the species in which H=R, it seems obvious that applicants are not now entitled to a Markush group including H in a reissue application. It is our view that the Examiner's position as to the claims being to an improper Markush group is correct.

For the reasons indicated, the decision of the Examiner is affirmed.

Upon request for reconsideration, the Board called attention to the fact that the appellants had taken the position that the Board did not affirm the Examiner's decision because its decision was based upon grounds different from those assigned by the Examiner. The Board said:

Appellants have requested reconsideration of our decision dated January 5, 1944 contending that the Examiner's rejection was not affirmed because the reason set forth in the Board's decision is different from that urged by the Examiner.

It is contended that the Examiner urged that the Markush group of claims was improper because it joins an alcohol with an ester and that the Board has not adopted the Examiner's viewpoint but has affirmed the rejection on another ground, to the effect that in view of the prior record of applicants as to the species in which H=R, it seems obvious that applicants are not now entitled to a Markush group including H in a reissue application.

The Examiner pointed out that after the abandonment of contest by applicants a claim to the formate of androstenediol was allowed on the basis that the formate is not equivalent of acetate abandoned by applicants. Having secured an allowance by abandonment or cancellation of a particular species, applicants are not in a position to recoup a claim covering this species in a reissue. It is not apparent that there is any inconsistency between the Examiner's actual position and that of our decision. In any event, claims 5 and 6 were rejected by the Examiner as being drawn to an improper Markush group and our decision was that it is our view that the Examiner's position as to the claims being to an improper Markush group is correct. No reason is seen for modifying our decisions.

The petition has been considered but is denied in respect to making any change in our decision.

It will be noticed that the Board, in discussing the improper Markush group rejection, linked with its reasoning the abandonment of the interference contest by appellants. It then said: "Having secured an allowance by abandonment or cancellation of a particular species applicants are not in a position to recoup a claim covering this species in a reissue." It then disavowed any inconsistency between its opinion and that of the Examiner and again affirmed the view of the Examiner with reference to the improper Markush grouping. It therefore, in effect, while not using the best terms to do so, affirmed the finding of the Examiner in holding that it was improper to join an alcohol with an ester in a single group.

We are not convinced that this holding of the tribunals below on the claims being based on improper Markush grouping was erroneous. The subject-matter involves a highly technical chemical question, and it would necessarily have to be clear that the Board erred in this respect before we would be warranted in reversing its holding.

A peculiarity of the chemical situation involved is presented by a statement in appellents' brief as follows:

In addition to (1) paucity of true generic language to cover the compounds of the claims, the prerequisites to proper inclusion in a Markush formulation are (2) common utility for all members of the group—here the two compounds covered by the claims; and (3) scientific classifiability together of the said members. These prerequisites are all here present so that for Markush purposes the claimed compounds must be regarded as equivalents.

*As to the first point, there is no allowable true generic term which covers both compounds of the appealed claims. The Patent Office has never held to the contrary.* [Italics ours.]

As to the second point, both said compounds are useful as pharmaceuticals (so-called "sex hormones") or as intermediates in the preparation of such pharmaceuticals. This has never been questioned by the Patent Office.

As to the third point, it appears to be the Patent Office viewpoint that because compound (II) is an alcohol while compound (IV) is an ester (viewed from the standpoint of the 3-position substituent), the two compounds are not properly classifiable together and may not, for Markush claim purposes, be regarded as equivalents.

[4] These contentions illustrate the complexity of the problem, and we think that under the circumstances we would be wholly unjustified in holding that the alcohols and esters under consideration may be properly classifiable together for Markush claim purposes and in regarding them as equivalents chiefly upon the ground that, as appellants state, "said compounds are useful as pharmaceuticals (so-called 'sex hormones') or as intermediates in the preparation of such pharmaceuticals." If all things which are useful as pharmaceuticals or as intermediates in the preparation thereof are to be held to be equivalents in the sense in which we are using that term, it is difficult to see how far afield that might lead in the application of the Markush doctrine.

It seems obvious to us that appellants in their instant application are, by reissue, attempting to recoup that which they, under the circumstances, must be presumed to have abandoned; that in order to obtain a patent, which they did obtain under the circumstances stated, they recognized that the Patent Office's original grouping was proper; and that to allow the claims in the instant application would be in violation of the settled rules and practice of the Patent Office.

The decision of the Board of Appeals is affirmed. Affirmed.

---

## U. S. Court of Customs and Patent Appeals

IN RE WILSON

*No. 5,039. Decided June 25, 1945*

[150 F.(2d) 548; 66 USPQ 245]

PATENTABILITY—AIRBAG.

Claims to a sectional airbag and method of manufacturing the same *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Messrs. Ely & Frye* (*Mr. Albert L. Ely* and *Mr. Bernard C. Frye* of counsel) for Wilson.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner finally rejecting all the claims, numbered 3, 5, 11, 20, 21, 22, 23, and 24, embraced in appellant's application (Serial No. 348,216) for a patent on a "Sectional Airbag and Method of Manufacturing Same."

Claims 3. 5, 20, 21, and 24 are for the article and claims 11, 22, and 23 for the method of making it.

The airbags in question are for use in the vulcanization of repair parts added to pneumatic vehicle tires, such, for example, as tires of automobiles. They are relatively small, arcuate shaped fluid containers. The use of such articles is described in the brief on behalf of appellant as follows:

Assuming a tire is worth repairing, the worn-out portion is prepared to receive new unvulcanized or only partially vulcanized rubber which must be united with the rubber in the rest of the tire. A section of new rubber of the desired size is held in place and confined by mechanical mold equipment arranged over the outside of the tire casing, while a sectional airbag is placed inside the tire casing directly under the new rubber. Fluid under pressure, usually air, enters the airbag and forms a backing surface under the new rubber, so that when vulcanizing heat is applied to the new rubber, this rubber is firmly held against the tire casing of which it is to become a part. Temperatures in the neighborhood of 300° F. are used in this vulcanizing process and as a result of this heat, plus the pressure in the airbag which is evenly distributed over the portion of the inside of the tire casing which it engages, the new rubber becomes united or vulcanized to the old rubber in the tire. Pressure which is exerted by the airbag from inside the tire casing also prevents the new rubber from becoming porous during vulcanization.

Claims 3 and 22 are regarded as illustrative. They read:

3. A sectional airbag comprising a hollow arcuate rubber core, a rubber sheet having spaced parallel reinforcing wires therein enclosing said rubber core with said wires extending at an acute angle to the axis thereof, a second wire reinforced rubber sheet positioned around said first rubber sheet, the wires in said second sheet being oppositely inclined relative to the wires in said first rubber sheet in relation to the longitudinal axis of said rubber core, said wires in both said rubber sheets extending the full length of said core and lapping over the ends thereof reinforcing means associated with the ends of said rubber core, and rubber means extending around the major portion of said covered rubber core to form an outer covering therefor.

22. The method of making a sectional airbag comprising forming of an impervious material an elongated hollow core having closed ends with at least one of said ends having an opening formed therethrough in the form of a hollow stem, molding said core to approximately the same shape it will occupy when it is used in service, incorporating a plurality of longitudinally extending parallel strain bearing wires in a rubber cover sheet, said wires being widely spaced relative to their diameter, covering said core with at least one layer of said sheet with said wires extending the full length of and substantially parallel with the longitudinal axis of said core intermediate the ends thereof, overlapping said ends with said cover with said wires converging at the central region of the ends, and vulcanizing the assembled parts in a sectional airbag mold whereby a finished bag is produced.

It will be observed that appellant's reinforcing element for the rubber sheets used in the construction consists of wires, and there are certain limitations in other of the claims, relating to the spacing of the wires, which appellant emphasized in his argument before us. In claim 20 it is recited that the wires are parallel and "widely spaced relative to their width." In claims 21, 22, and 23 it is said that they are "widely spaced relative to their diameter." In claim 24 (added for appeal) it is stated that they are "spaced a distance equal to at least twice the width of said wires." Claim 5 refers to the wires as being "partially spiralled" around the core. Claim 11 (a method claim) recites "completely covering the arcuate section with a wire reinforced rubber sheet."



The Examiner rejected all the claims in view of cited prior art, and additionally rejected claim 24 as not being supported by the disclosure of the application. The Board followed the views of the Examiner as to the effect of the prior art, but made no reference to the matter of lack of disclosure of claim 24, other than to say in regard to the spacing defined. "We find nothing in the specification indicating this as critical or as producing any new or unexpected result."

The references are two patents, viz.: Burdette. 1,549,962, August 18, 1925; Semler, 1,981,201, November 20, 1934.

It is thought that appellant's device may be fairly visualized from the quoted claims, but the following general description given in the brief of the Solicitor for the Patent Office is helpful:

As shown in the drawings of the application, the airbag is formed by placing around a rubber core of the desired shape, a rubber sheet reinforced with wires, then placing thereon a second sheet reinforced with wires which will be at an angle to those of the first sheet and lastly a covering of rubber, and vulcanizing these parts. The covering layers are put in such a position as to reinforce the bag in a longitudinal direction, the bag being capable of expanding in a transverse direction, as shown in the drawings of the application.

The Burdette patent discloses a bag used for the same purpose as that of appellant. In contour and dimensionally it is substantially the same as that of appellant, and the materials entering into its composition are the same except for the elements used in reinforcing the rubber sheets. In Burdette those elements apparently consist of cord fabric (presumably cotton or the like) although a number of the claims are not limited as to the material of which such elements are composed. In all the claims here at issue, as has been stated, the reinforcing element consists of wire.

There is, however, a difference between the arrangement of the reinforcing elements in the Burdette patent and that defined by appellant. In the patent apparently all the reinforcing cords extend longitudinally across the entire surface and around the ends of the bags, while in appellant's device the wires are arranged at an angle to the central line of the core.

The Semler patent discloses a bag having a metal core. A sleeve is mounted on the core, the sleeve having inner and outer portions which constitute an expansible chamber. The outer portion of the sleeve is reinforced by longitudinally extending cords and adjacent the *ends only* oppositely inclined cords are placed at substantially the same angle as are the wires of appellant. The specification of the patent states that in place of cords or strings, "chains, small flexible metal strips or the like may be employed as reinforcing material." It is also stated in the specification:

A further object of my invention is to reinforce and seal the ends of a sleeve of a curing bag with reinforcing material in such manner that the material, in spite of its sealing and strengthening function, will permit the entire sleeve to expand radially under pressure to fit the tire within which it may be placed.

The holding of the Examiner is summarized in the brief of the Solicitor for the Patent Office as follows:

The Examiner based his rejection of the claims on the theory that in view of the statement above quoted from the Semler patent as to the chains, flexible metal strips, etc. for a reinforcing material in an airbag, there was no invention in using metal strips or wires as reinforcements in place of the cords used in the bag of the Burdette patent and no further invention in placing the reinforcements at an angle to the longitudinal axis of the Burdette bag, as shown in the Semler device.

While the Board seems to have regarded the issue, under the manner in which the case was presented before it, as being limited to the question of whether it constituted invention to substitute wire reinforcements for cord reinforcements and held that it did not, particularly in view of Semler's teaching that "chains, small flexible metal strips or the like" might be used, there seems to be, as the case is presented before us, another issue, viz.: Did it constitute invention to arrange the reinforcing cords, at the angle described, over the entire surface and at the ends of the bag in view of Semler's showing of such arrangement at the ends only?

Careful consideration has been given to appellant's arguments upon both points. It is thought probable that appellant's device may be an improvement over the prior art devices, but not all improvement involves invention, and it does not seem to us that it may be held that appellant's arrangement involved the exercise of the inventive faculties. We also agree that it did not involve invention to substitute flexible metal wires for the cords shown in the patents, particularly in view of Semler's teaching as above recited.

With respect to the limitations relating to the spacing of the wires, we fail to find any teaching of criticalness. The reinforcing elements of necessity have to be spaced apart to some extent, whether composed of cord or of wire. The partial spiralling of the wires around the cord, as defined in claim 5, is not particularly stressed by appellant. Nothing is shown which would justify our holding that this limitation renders that claim patentable.

We agree also that in the absence of invention in the article there is nothing patentable in the method claims—indeed, it might be questioned whether those claims would be allowable even if the article claims were allowed, since they teach nothing other than the conventional manner of producing the bag.

In view of our conclusion, no further discussion of claim 24 is deemed to be necessary.

The decision of the Board is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

### IN RE MEYER

*No. 5,022. Decided June 22, 1945.*

[150 F.(2d) 558; 66 USPQ 222]

1. PATENTABILITY—REFERENCE.

In response to the argument that thyroid glandular substance extracted by means of alcoholic hydrochloric acid, as shown in the reference, does not produce the same residue as that substance extracted with ethyl alcohol, as shown in appellant's application, *Held*, "If the alcoholic hydrochloric acid • • • would produce different results from those produced by alcohol alone, a duty surely devolved upon appellant to make such difference known."

2. SAME—THYROID PREPARATION.

Certain claims to a thyroid preparation and to a process of producing it *Held* properly rejected in view of the cited reference, a publication by one Sayama.

3. SAME—SAME.

"The affidavits and letters in the record indicate very clearly that the use of the substance defined in the rejected claims produces more favorable results with less undesirable effects than those produced by other thyroid preparations. The record, however, does not negative a like effect by the use of the saline extract of the residue of Sayama. We cannot say that the residue extracts of Sayama and appellant are different. Each produces metabolic activity and increase in pulse rate, although the extent is not set forth in either the application or the reference."

APPEAL from the Patent Office. Affirmed.

*Messrs. Pennie, Davis, Marvin & Edmonds* (*Mr. C. M. Fisher* and *Mr. R. T. McLean* of counsel) for Meyer.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

*Jackson, J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting claims 2, 3, 5, 6 and 7 of an application for a patent for Thyroid preparation and a process of producing it. Claim 1 was held allowable by the Board subject to certain amendments being made thereto.

The rejected claims read as follows:

2. A thyroid glandular preparation comprising native thyroid glandular substance substantially free from alcohol soluble constituents, possessing substantially the same metabolic effect as the said substance containing the alcohol soluble constituents and having a heart stimulating effect substantially less than said substance.

3. The process of treating native thyroid glandular substance containing the metabolic hormone and a heart stimulating component which comprises separating the latter from the former by treating said native thyroid glandular substance with a selective solvent for the heart stimulating component and thereby isolating it from the metabolic hormone.

5. A preparation possessing metabolic activity without undesirable heart stimulating effects comprising the alcohol insoluble fraction of native thyroid glandular substance.

6. The alcohol insoluble fraction of native thyroid glandular substance substantially free from the heart stimulating alcohol soluble component.

7. The alcohol insoluble fraction of native thyroid glandular substance.

The Primary Examiner rejected the involved claims for lack of invention over a publication of S. Sayama appearing in "Chemical Abstracts," volume 33 (1939), page 5494. Claim 3 was further rejected by him as too broad as to the "selective solvent for the heart stimulating component." The claims were further rejected as being unduly multiplied. Subsequent to the Examiner's decision appellant filed an affidavit under rules 75 and 76, to overcome the Sayama reference, attaching thereto letters from several physicians relating to improved results from the administration of appellant's product over that of conventional thyroid substances. An affidavit as to the commercial success of appellant's preparation was also filed. The Primary Examiner adhered to his rejection.

The board sustained the decision of the Examiner, except as to claim 1.

Appellant states in his application that thyroid substances or extracts are administered to improve the rate of metabolism, instancing the condition of hypothyroidism. He also states that thyroid substances commonly used for that purpose are attended with undesirable effects, such as nervousness, sleeplessness and increase in the rate of heart beat. He claims to have discovered that thyroid gland substance contains a metabolic and a heart stimulent component, which are separable by means of a suitable solvent, particularly ethyl alcohol, and that after the separation the residue possesses metabolic activity without having undesirable effects or with such effects reduced below those which characterize the substances used prior to his discovery. The extract produced with the solvent may be used as a heart stimulant.

The Sayama reference relates to the effect of extracts of thyroid epithelium and thyroid colloid substance on blood pressure, pulse rate, and rate of respiration. The more pertinent portion of the reference discloses an alcoholic hydrochloric acid extract of thyroid substance and a saline extract of the residue. It states that upon the injection of rabbits with the alcoholic hydrochloric extract weight is increased while blood pressure, pulse rate and rate of respiration are decreased. Upon injection of the saline extract of the residue the weight decreased while the blood pressure, pulse rate and rate of respiration increased. Neither appellant nor the Patent Offiffice places any significance upon the fact that the residue is reacted with a saline solution to produce the second extract.

It will be noted that the reference clearly fractionates the thyroid substance into two parts, one of which might be termed a stimulant to the heart, while the other may be called a heart depressant. In the use of the former metabolic activity is increased, and in the latter, decreased. There is nothing in the reference by which the increase of pulse rate and blood pressure may be determined. It may be small or it may be great.

[1] Appellant contends that the tribunals of the Patent Office misunderstood the reference. He argues that thyroid glandular substance extracted by means of alcoholic hydrochloric acid does not produce the same residue as that substance extracted with ethyl alcohol, terming alcoholic hydrochloric acid a powerful reagent and fundamentally different from alcohol. Whether there is such a difference between the two substances we are unable to say for the reason that no factual statement concerning such difference appears in the record. The Examiner stated that Sayama has some hydrochloric acid present in the alcohol but that "it does not appear that this is a material distinction." The Solicitor in his brief mentions that Sayama's extracting means is alcohol to which some hydrochloric acid has been added. If the alcoholic hydrochloric acid of Sayama would produce different results from those produced by alcohol alone, a duty surely devolved upon appellant to make such difference known. This has not been done.

[2][3] Appellant does not contend that his residue is entirely devoid of heart-stimulating or other undesirable effects, but that such effects are substantially reduced below those usually accompanying the use of conventional thyroid substances. Therefore it is reasonable to assume that there is some stimulation to heart action and other undesirable effects, even though they may not be of a serious character.

The affidavits and letters in the record indicate very clearly that the use of the substance defined in the rejected claims produces more favorable results with less undesirable effects than those produced by other thyroid preparations. The record, however, does not negative a like effect by the use of the saline extract of the residue of Sayama. We cannot say that the residue extracts of Sayama and appellant are different. Each produces metabolic activity and increase in pulse rate, although the extent is not set forth in either the application or the reference.

It will be apparent from what has been said that no patentable distinction has been shown in the process of producing the product of the rejected claims and what seems to be a like product of the reference.

Since we are of opinion that the involved claims were properly rejected on the reference, it is unnecessary to discuss the other reasons for rejection.

The decision of the Board of Appeals is affirmed.

Affirmed.



## Register of Patents Available for Licensing or Sale

Pat. 2,306,210. EXHIBITOR. Patented Dec. 22, 1942. Cabinet whereby a plurality of display sheets, such as wall paper, linoleum, etc., may be successively and continuously exhibited. Ends of the stacks are suspended from a journaled roller having four faces. Another roller frictionally engages the back surface of each sheet and moves it upwardly into an opening in cabinet until it reaches a predetermined point where it falls forward. First roller rotates in response to shifting of the stacks. Sheets in book form may also be displayed. (Owner) Morris Gabin, 252 Warburton Ave., Yonkers 2, N. Y. Groups 25—41; 34—71; 39—93. Reg. No. 573.

Pat. 2,147,605. LOUDSPEAKER WITH OSCILLATORY COIL. Patented Feb. 14, 1939. Dynamic speaker constructed to overcome disadvantage of uncertain centering, making it acoustically correct. Center disc has a series of single radial projections separated by air gaps and so secured to render it torsion free. Elongated oscillatory coil disposed in air gap between pole core and pole plate of the magnet system allows performance of maximum vibration so that lower tones are produced. (Owner) Walter Lissauer, % Lissauer Laboratories, E. Walnut Rd., Vineland, N. J. Group 36—61—62. Reg. No. 574.

Pat. 1,798,287. CONDENSER. Patented Mar. 31, 1931. Filter paper saturated with a solution of sodium bicarbonate, sodium sulphate and other salts is dried and used as a solid electrolytic contact between conductor plates of aluminum and another metal, used in the construction of cells of a dry battery, rectifier or condenser. (Owner) Richard A. Ward, % Theodore Sheldon, 209 S. State St., Chicago 4, Ill. Groups 30—32; 36—91. Reg. No. 575.

Pat. 1,735,820. STABILIZER. Patented Nov. 12, 1929. Device placed between source of current supply and radio receiving set, delivers a constant potential by eliminating changes due to variations in direct, alternating, pulsating or similar currents. Tube consists of a tungsten arc

operating in an inert gas, etc., connected to a potentiometer. Has negative resistance characteristic so that when voltage drop decreases, current increases and vice-versa. (Owner) Richard A. Ward, % Theodore Sheldon, 209 S. State St., Chicago 4, Ill. Group 36—61. Reg. No. 576.

Pat. 1,939,837. HUMIDIFIER MATERIAL. Patented Dec. 19, 1933. Sheets of soft wood or other porous material, approximately one-quarter inch thick, are arranged in an upright position within a hood on a steam radiator. Both sides of sheets are cut with a series of grooves forming diamond shaped areas providing capillary channels for water. (Reverse side cuts are out of registration.) A pan of water in base of hood acts as a reservoir. Heated air within hood rapidly humidifies and passes out front grille into room. (Owner) Richard A. Ward, % Theodore Sheldon, 209 S. State St., Chicago 4, Ill. Groups 25—99; 34—95; 35—84. Reg. No. 577.

Pat. 2,247,159. ELECTRIC BRAKE. Patented June 24, 1941. Electric automotive or airplane brake with entire magnet assembly mounted on a detachable panel fastened to the brake support disc. Detachable for inspection, adjustment, or replacement from the outerside of the brake support without removing wheel. (Owner) Theodore B. Patch, 543 Boylston St., Boston, Mass. Groups 33—64—72; 37—22; 38—31. Reg. No. 578.

Pat. 2,321,282. DRY HYDROGEN CHLORIDE. Patented June 8, 1943. Apparatus for the production, in one step, of dry hydrogen chloride from any concentration of hydrochloric acid. Method utilizes dehydrating material and avoids the use of fractionating columns, condensers or circulating equipment. Obtains dry HCl gas of 99% or even containing less than 0.3% water at low cost. Apparatus adaptable to obtain dry HCl periodically or continuously from dilute aqueous acid. (Owner) Bay Chemical Co., Inc., 1048 Constance St., New Orleans 9, La. Groups 28—86—89; 35—51. Reg. No. 579.

Pat. 2,323,185. RUBBER HYDROHALIDE. Patented June 29, 1943. Process of making rubber compositions including rubber hydrohalides which are both tough and flexible. Several methods cited and inventor claims production, at low cost, of uniform results not heretofore possible. Rubber hydrohalide compositions useful as sheet wrapping, coatings, and waterproofing. (Owner) Bay Chemical Co., Inc., 1048 Constance St., New Orleans 9, La. Groups 28—86; 30—41. Reg. No. 580.

Pat. 2,289,089. TREATMENT OF BORNYL CHLORIDES RESIDUES. Patented July 7, 1942. When crystals of bornyl chloride are separated from the mixture that produces it, by chilling, much additional bornyl chloride remains in the residue. This patent relates to the recovery of the bornyl chloride from such residue. Process recited in patent. (Owner) Bay Chemical Co., Inc., 1048 Constance St., New Orleans 9, La. Group 28—33—82. Reg. No. 581.

Pat. 2,288,409. FREE-FLOWING SALT COMPOSITION. Patented June 30, 1942. Small portions of finely divided magnesium, calcium, or aluminum stearate or palmitate are added to ordinary salt to prevent absorption of moisture and to overcome its tendency to cake. Insures free flowing action in damp weather. (Owner) Bay Chemical Co., Inc., 1048 Constance St., New Orleans 9, La. Group 28—85. Reg. No. 582.

Pat. 2,319,832. PIPE HANGER. Patented May 25, 1943. A simple arrangement of demountable parts to support a pipe in position on a wall or ceiling, etc. Consists of a spring metal band, rubber lined, perforated near the ends through which passes a U-shaped piece of gauge wire with inwardly bent prongs which lock in slots of two plates held to ceiling by means of a screw or bolt. (Owner) Louis L. Trochim, P. O. Box 767, Seattle 1, Wash. Groups 33—50—73; 39—72—96; 40. Reg. No. 583.

Pat. 2,378,628. DISH DRAINER. Patented June 19, 1945. Partitioned to accommodate several dishes. Each compartment has a horizontal center groove joining an outer groove around the inside leading to a spout for drainage when receptacle is inclined. Spout fitted with removable plug. Can be fabricated of metal, plastic, or rubber. (Owner) Mrs. Joan Gray, 1244 E. 81 St., Cleveland, Ohio. Groups 33—73; 34—41—99; 35—59; 39—81; 40. Reg. No. 584.

Pat. 2,309,393. METHOD AND SYSTEM FOR TELEVISION COMMUNICATION. Patented Jan. 26, 1943. Reg. No. 585.

Pat. 2,369,783. METHOD AND SYSTEM FOR CONTROLLING RADIO AND TELEVISION RECEIVERS AT A DISTANCE. Patented Feb. 20, 1945. Reg. No. 586.

The two patents listed above show an apparatus in which picture signals are combined with control signals in such a manner that both are transmitted and reproduced as picture signals, thereby simplifying the equipment and circuits used and also insuring synchronization of scanning operations. Patent 2,369,783 allows for the selection of any one or a number of controls and the change of selection of controls at the will of a distant operator. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—61.

Pat. 2,382,055. REMOTE CONTROL SYSTEM. Patented Aug. 14, 1945. A means of operating, over a distance, a plurality of control devices or motors either separately or simultaneously by transmitting a number of control signals over a single carrier, to start, stop or vary the speed of mobile equipment of land, sea, or air by televising certain signals or characters. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—61. Reg. No. 587.

Pat. 2,320,699. METHOD AND SYSTEM FOR TELEVISION COMMUNICATION. Patented June 1, 1943. A television system which permits the alteration of the number of frames per second for televising motion picture film and provides for the generation of blanking pulses in the pick up and viewing tubes thereby eliminating the transmission of these signals by radio. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—61. Reg. No. 588.

Pat. 2,130,542. PAINT MIXER. Patented Sept. 20, 1938. An attachment to evenly stir paint within a container. Consists of a pair of detachable, adjustable L-shaped sheet-metal blades affixed to a shaft with a handle attached, which when rotated acts as an agitator. May be rotated by hand or means of power. Held rigid by metal strap to sides of can or jar by means of clamps. (Owner) Fred M. Giddings, 132 Duffield Ave., Galesburg, Ill. Groups 33—12—41; 40. Reg No. 589.

Pat. 2,169,414. UTILITY SCRAPER AND TOOL. Patented Aug. 15, 1939. Scraper with sharp double edges lying on the same plane to form a right angle so that both edges act simultaneously on same surface to scrape, cut, or level same. Removable handle is mounted to head by means of a bolt and nut. Also provided with an auxiliary cutting knife adapted to cut along edge of corrugated container using main section as a guide and support. (Owner) Fred M. Giddings, 132 Duffield Ave., Galesburg, Ill. Groups 25—99; 27—89; 33—52—73. Reg. No. 590.



Pat. 2,231,267. CUTTING AND SCRAPING DEVICE. Patented Feb. 11, 1941. A cutting and scraping tool adapted to household and industrial use. Right-angled bracket-like head portion is attached to handle by means of a bolt and winged nut to allow for adjustment. Has roller disc (which may be recessed when not in use) utilized for trimming sheets of paper and opening cardboard containers using head as guide and support. Provision for a razor blade to be inserted and held by pivoted clamping member. (Owner) Fred M. Giddings, 132 Duffield Ave., Galesburg, Ill. Groups 25—99; 27—89; 33—52—73. Reg. No. 591.

Pat. 1,954,698. PLANT KILLER. Patented Apr. 10, 1934. Manually operated hand lever exerts pressure on coil spring, opens valve releasing plant killing fluid stored in elongated barrel acting as a reservoir; spear-shaped incising head mounted on barrel cuts and scores roots of plants being treated. Has foot bracket which is used to drive instrument into ground and a replaceable cap which covers filling neck to prevent escape of liquid. (Owner) Fred M. Giddings, 132 Duffield Ave., Galesburg, Ill. Group 33—52—73. Reg. No. 592.

Pat. 2,365,802. MARKING INSTRUMENT. Patented Dec. 26, 1944. Holder for crayons, chalk, soapstone, etc., with which it is possible to use a lighter crayon for heavy marking without danger of breakage or soiling user's hand. End of crayon is projected in and out of holder by moving an actuating lug portion up and down. (Owner) Sidney C. Browse, 17 Adelaide St. W., Toronto 1, Ontario, Canada. Groups 28—83; 39—51—52; 40. Reg. No. 593.

Pat. 2,337,966. DOOR CHECK. Patented Dec. 28, 1943. Device to prevent slamming of screen doors. A buffer, adjustable for length, projects horizontally into path of closing door to impede speed; and impeller (lifted into action by means of a cam on end of buffer) closes door. Engaging ends of both parts are equipped with rubber rollers. (Owner) Henry M. Borden, 4010 27th Ave., S., Minneapolis 12, Minn. Groups 25—61; 34—21—29—63—93. Reg. No. 594.

Pat. 2,032,911. EXCAVATING MACHINE. Patented Mar. 3, 1936. Designed for use in combination with a tractor or any other means of power (which may be detached when not in use). Consists of a rotating digging wheel. Positioned inside wheel are a series of cutting blades and buckets which empty material on an endless belt which carries material to selected point of deposit. Wheel may be advanced as cutting progresses, raised or lowered or adjusted to increase its range of actions. Inventor states weight is reduced and output increased. (Owner) Mrs. Irene Brown, 415 First Ave., E., Newton, Iowa. Group 35—21—31—63—65. Reg. No. 595.

Pat. 2,267,848. SUPPORT FOR NORMAL BODY LOCOMOTION. Patented Dec. 30, 1941. Intended as a support and guide means to aid in restoring normal use of lower limbs of infantile paralysis convalescents. A conventional shoe connected with a brace extending from the hip is placed on the foot of the disabled limb. The brace is adjustable, is pivotally joined so that cooperating parts duplicate the normal walking action. Equalized springs and light construction of the device do not dissipate the energy of the wearer. (Owner) Byron M. Taylor, Lt. Comdr., USNR, 616 Mission St., San Francisco 5, Calif. Groups 37—51; 38—42. Reg. No. 596.

Pat. 2,210,269. MEANS TO AID IN REGAINING NORMAL BODY LOCOMOTION. Patented Aug. 6, 1940. A device to aid a convalescent infantile paralysis victim to regain the normal functions of his limbs. To avoid stress, strain, and bone deformities, the limb is held in normal position within a mobile frame on four wheels having cam and lever means intended to compensate for the loss of elasticity of the affected muscles. Body held erect by supports fitted under armpits and belt around hips and abdomen. Permits exercise with little energy and may be worked by either attendant or patient. (Owner) Byron M. Taylor, Lt. Comdr., USNR, 616 Mission St., San Francisco 5, Calif. Groups 37—51; 38—42. Reg. No. 597.

Pat. 2,378,970. ATTACHMENT FOR CURTAIN RODS. Patented June 26, 1945. Device for insertion into end of flat curtain rod to enable it to be easily and quickly passed through hems of curtains of various kinds without damaging fabric. Comprises a single piece of wire bent to form a looped head with a pair of elongated legs. A coil spring encircles entire loop to provide resilient tensioning means. Owner states device can be manufactured for less than one and one-half cents each. (Owner) Ross Baumann, Box 804 Station A, Bakersfield, Calif. Groups 33—49—71; 35—89; 39—99; 40. Reg. No. 598.

Pat. 2,243,236. TABLEWARE. Patented May 27, 1941. Implement to facilitate the eating of foods which are sometimes difficult to manage. Consists of a bar attached to a handle to be used in conjunction with a fork or spoon as a pusher. May also be used to assist children in learning proper eating habits and thereby reduce the soiling of table linens. (Owner) Robert S. Walsh, 4539a Natural Bridge Ave., St. Louis 15, Mo. Groups 34—21; 40. Reg. No. 599.

Pat. 2,230,235. SKI. Patented Feb. 4, 1941. Ski assembly which can be converted to an emergency conveyance. Ski is built in two layers, upper is main ski which can be used in ordinary sense and lower used as auxiliary ski. In the event of an accident ski can be dismantled and assembled into an emergency means, foot rest becoming bracing means. Provided with canvas cover which can be stretched over frame. For use in rescue work, transporting heavy loads, tobogganing, or in aquaplaning. (Owner) Henry L. Davisson, 11 Mt. Pleasant Ave., West Orange, N. J. Groups 25—94—99; 39—49. Reg. No. 600.

Pat. 2,188,618. INSECT EXTERMINATOR. Patented Jan. 30, 1940. Open circuit baited device for electrocuting insects coming into contact therewith comprises a block of insulation preferably wood covered with a plurality of parallel wires spaced therefrom by rows of driven nails at each end. Band encircles each end, covers nails, and is notched to carry a bait plate. Groups 25—61; 33—49; 35—22; 36—61. Reg. No. 601.

Pat. 1,897,263. INSECT DESTROYER. Patented Feb. 14, 1933. Open circuit cage-like device comprises a cylinder of translucent, non-conducting material carrying vertically wound wires. Device may be suspended from a lamp shade attached to inverted electric bulb. Insects coming into contact with either inside or outside of cylinder will be electrocuted. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 602.

Pat. 2,052,945. INSECT AND RODENT EXTERMINATOR. Patented Sept. 1, 1936. Open circuit device for electrocuting insects or rodents coming into contact therewith comprises a rectangular frame with horizontal top and bottom bars and insulated vertical side bars. Two continuous strands of wire are wound around vertical bars and extend back and forth therebetween, the strands being arranged alternately with respect to each other. A tray may be provided to catch destroyed insects or

rodents. A bracket is provided for securing device across an opening. May be used in any position. Groups 25—61; 33—49; 35—22; 36—61. Reg. No. 603.

Pat. 1,754,748. ELECTRIC INSECT DESTROYER. Patented Apr. 15, 1930. Open circuit device of the screen type for electrocuting insects coming into contact therewith. Two insulating strips are provided with rows of staggered slots to receive two continuous wires disposed in alternate parallel, serpentine, or zig-zag relation across screen. Simplifies and permits rapid and economical manufacture. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 604.

Pat. 1,871,978. INSECT ELECTROCUTOR. Patented Aug. 16, 1932. Device of cage-like type wherein a strong electrostatic field is created in front of it to draw and electrocute insects before they actually come in contact therewith. Wires are waved or corrugated to provide characteristics of springs and when assembled require no additional tensioning means. Substantially invisible trap may be formed which has many uses. Several design modifications shown. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 605.

Pat. 1,730,814. INSECT ELECTROCUTOR. Patented Oct. 8, 1929. Open circuit device of the screen type for electrocuting insects coming into contact therewith. Entire electrodes comprising vertical end members and plurality of parallel vanes may be formed of sheet metal by conventional metal-stamping machinery. When used at window or door, screen vanes are arranged to deflect sun's rays. Groups 26—61; 33—73; 35—22; 36—21. Reg. No. 606.

Pat. 1,952,795. INSECT ELECTROCUTOR. Patented Mar. 27, 1934. Open circuit device utilizes structure set forth in above patent, 1,730,814. Pyramidal cage is built around an inverted light bulb. Suitable bait is placed inside cage to attract insects in daytime and light attracts them at night. Insects may be electrocuted by direct contact or strike projections at top, be stunned, and fall on the inclined surfaces. Groups 25—61; 33—49—73; 35—22; 36—21. Reg. No. 607.

Pat. 1,882,550. INSECT ELECTROCUTOR. Patented Oct. 11, 1932. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 608.

Pat. 1,895,570. ELECTRIC INSECT DESTROYER. Patented Jan. 31, 1933. Reg. No. 609.

These two patents relate primarily to the supporting means for supporting and insulating the wires of an open circuit device of the screen type for electrocuting insects coming close to or into contact therewith. These supports are composed of insulating material having ears, projections, slots, etc., about which two continuous wires may be looped back and forth across frame to securely hold and tension them in desired position without resorting to additional insulating or tension means. They may be made of predetermined lengths and slid into the frame thereby simplifying manufacture and assembly. Groups 25—61; 33—49; 35—22; 36—21.

Pat. 1,858,923. INSECT ELECTROCUTOR. Patented May 17, 1932. Device of either screen or cage-like type for electrocuting insects coming close to or in direct contact therewith. Screen or cage is formed of a plurality of independent units capable of ready installation or replacement which possess sufficient rigidity to maintain its initial position without sagging or disalignment. Each unit comprises a rod with rows of arms or branches projecting laterally from one or both sides thereof. When assembled arms of one unit are staggered with respect to others. Groups 25—61; 33—49—73; 35—22; 36—21. Reg. No. 610.

Re. Pat. 18,294. INSECT TRAP. Reissued Dec. 22, 1931. Original No. 1,743,664, dated Jan. 14, 1930, Serial No. 233,403, filed Nov. 15, 1927. Reg. No. 611.

Re. Pat. 18,313. INSECT TRAP. Reissued Jan. 5, 1932. Original No. 1,743,665, dated Jan. 14, 1930, Serial No. 239,369, filed Dec. 12, 1927. Reg. No. 612.

The two patents listed above relate to open circuit cage-like devices for electrocuting insects coming in contact therewith which may be provided with a light and bait. Electrodes comprise a plurality of spaced blades connected at their ends to rings. Rings of one electrode are smaller so that one is positioned within the other and blades alternately arranged. Suitable cylindrical support, preferably housing a transformer, may be utilized. Blades are radially arranged on the rings so that substantially conical opening results. Groups 25—61; 33—73; 35—22; 36—21.

Pat. 1,730,608. INSECT TRAP. Patented Oct. 8, 1929. Open circuit device of the screen type for electrocuting insects coming into contact therewith wherein conventional frame with screen is utilized as one electrode and a zig-zag ribbon positioned thereover forms the second electrode. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 613.

Pat. 1,966,999. APPARATUS FOR ELECTROCUTING INSECTS. Patented July 17, 1934. Open circuit device of the screen type for electrocuting insects coming into contact therewith comprising a rectangular frame with two oppositely disposed channel members carrying a plurality of insulating blocks, preferably porcelain. Two continuous strands of wire are strung back and forth between the blocks, the strands being arranged alternately with respect to each other. No additional tensioning means are necessary when assembled. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 614.

Pat. 2,095,323. MUSHROOM HOUSE CONSTRUCTION. Patented Oct. 12, 1937. An arrangement for electrocuting insects and providing natural light and ventilation in a structure for mushroom growing. Consists of a light-transmitting portion in the ceiling fitted with an adjustable opaque shutter carrying an electrically charged screen on its underside. Walls have sliding opaque shutters and sliding light transmitting shutters and charged electric screens. Control of current is effected by a switch accessible from the floor so that doors may not be opened without disconnecting current supply, guarding against the possibility of forgetting the screens in their electrified condition when worker leaves mushroom house. As a safety precaution a small red light indicates screens are charged. Groups 25—61; 33—49; 35—22; 36—21. Reg. No. 615.

The fifteen patents listed above are offered for licensing on reasonable terms by the Insectocutor Corporation, Office 901, 303 West Forty-Second St., New York 18, N. Y.

### Notice

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# TRADE-MARKS

## OFFICIAL GAZETTE, NOVEMBER 20, 1945

[VOL. 580. No. 3]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 473,640. FERRO ENAMEL CORPORATION, Cleveland, Ohio. Filed Aug. 26, 1944.



Applicant is the owner of Regs. Nos. 324,350 and 386,982.
FOR GLAZE AND ENAMEL FRIT AND CLAY.
Claims use since Apr. 11, 1929.

Ser. No. 473,776. FERRO ENAMEL CORPORATION, Cleveland, Ohio. Filed Aug. 31, 1944.



Applicant is the owner of Regs. Nos. 324,350 and 386,982.
FOR GLAZE AND ENAMEL FRIT AND CLAY.
Claims use since Apr. 11, 1929.

Ser. No. 480,261. WITCO CHEMICAL COMPANY, Chicago, Ill. Filed Feb. 26, 1945.

WITCOGUM

FOR POLYMERIZED VEGETABLE OIL USED AS A RUBBER SUBSTITUTE.
Claims use since March 1942.

Ser. No. 484,541. ANN PICH, Chicago, Ill. Filed June 14, 1945.




Applicant disclaims the word "flowers" apart from the mark.
FOR FLOWERS, CUT AND POTTED, AND FERNS.
Claims use since Apr. 29, 1945.

Ser. No. 485,934. ALLIED KID COMPANY, Boston, Mass. Filed July 18, 1945.




Applicant is the owner of Regs. Nos. 130,414 renewed, 132,251 renewed, 226,389, and 226,999.
FOR UPPER LEATHERS.
Claims use since September 1915.

## CLASS 2

### RECEPTACLES

Ser. No. 473,975. BIRD & SON, INC., East Walpole, Mass. Filed Sept. 8, 1944.

TOM THUMB

FOR PLANT POTS AND BOXES MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL FOR GERMINATING SEEDS AND FOR GROWING, STORING, DISPLAYING AND TRANSPORTING PLANTS, FLOWERS, FRUIT AND VEGETABLES.
Claims use since Nov. 23, 1943.

---

Ser. No. 485,194. CENTRAL PLASTICS CO., Waukegan, Ill. Filed June 29, 1945.

SiLite

FOR TRAYS MADE OF PLASTIC MATERIAL.
Claims use since February 1945.

---

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 482,571. R. A. GUTHMAN & CO., Chicago, Ill. Filed Apr. 25, 1945.

ADA

FOR WALLETS, BILLFOLDS, KIT BAGS, MONEY BAGS, CHANGE PURSES, LEATHER WRITING PORTFOLIOS, LEATHER BILLFOLDS EQUIPPED WITH A REMOVABLE MEMORANDUM PAD, LEATHER IDENTIFICATION CARD CASES, LEATHER KEY CASES, AND LEATHER PEN AND PENCIL CASES.
Claims use since Feb. 2, 1945.

---

Ser. No. 484,467. TEXTRON, INCORPORATED, Providence, R. I. Filed June 12, 1945.

TEXTRON

FOR HAND BAGS, COSMETIC KITS MADE OF RAYON OR OTHER CLOTH WITH COMPARTMENTS FOR TOILET ARTICLES AND COSMETICS SOLD EMPTY AND LINGERIE CASES MADE OF CLOTH INTENDED FOR THE STORAGE OF LINGERIE WHETHER TRAVELING OR FOR USE AT HOME IN THE BUREAU.
Claims use since Mar. 27, 1944, on hand bags; since Aug. 3, 1944, on cosmetic kits; and since Oct. 11, 1944, on lingerie cases.

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 482,902. SYSTEM SERVICE COMPANY, Paterson, N. J. Filed May 2, 1945.

bluebonnet



The portrait on the drawing is that of Linda Bluebonnet Lewis, the daughter of the president of the applicant corporation.
FOR TYPE CLEANING FLUID AND TYPEWRITER PLATEN SURFACE CLEANER.
Claims use since November 1944.

---

Ser. No. 483,942. TUDOR PRODUCTS, INC., New York, N. Y. Filed May 29, 1945.




The drawing is lined for red and black. The words "Quick" and "Easy" are not claimed except in association with the mark as shown.
FOR HAND CLEANING COMPOSITION.
Claims use since Oct. 2, 1944.

---

Ser. No. 484,993. WILLIAM B. ZION, doing business as Allied Salt & Chemical Co., Boston, Mass. Filed June 23, 1945.

WITEY DITEY

FOR CLEANING PREPARATION FOR DIAPERS AND HAVING INCIDENTAL DEODORIZING PROPERTIES.
Claims use since May 3, 1944.



## CLASS 6

### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 476,531. STANCO INCORPORATED, New York, N. Y. Filed Nov. 16, 1944.

IMOL

FOR WHITE MINERAL OIL FOR TECHNICAL, INDUSTRIAL, AND CHEMICAL PURPOSES.
Claims use since May 18, 1944.

---

Ser. No. 476,843. KATZ DRUG COMPANY, also doing business as King Products Co., Kansas City, Mo. Filed Nov. 24, 1944.

Starlet

FOR COMBINATION FACE CREAM.
Claims use since Oct. 23, 1944.

---

Ser. No. 477,502. 4 CCCC INC., New York, N. Y. Filed Dec. 13, 1944.

4 CCCC

FOR DANDRUFF REMEDY.
Claims use since Nov. 1, 1922.

---

Ser. No. 479,755. CLYDE SCOTT, doing business as Scott Laboratories, Oradell, N. J. Filed Feb. 13, 1945.

IONICA

FOR RAPID HEALING ANTISEPTIC.
Claims use since Sept. 1, 1944.

---

Ser. No. 479,777. CASSELL PRODUCTS, INC., New York, N. Y. Filed Feb. 14, 1945.

Esperanto

FOR TOILET WATER.
Claims use since Jan. 4, 1945.



Ser. No. 480,199. L. SONNEBORN SONS, INC., New York, N. Y. Filed Feb. 24, 1945.

COMFORTOL

FOR INSECTICIDAL CATTLE SPRAY.
Claims use since 1920.

---

Ser. No. 480,331. LAKESIDE LABORATORIES, INC., Milwaukee, Wis. Filed Feb. 28, 1945.

CHORIOGONIN

FOR LUTENIZING HORMONE, CHORIONIC GONADOTROPIN, FROM HUMAN PREGNANCY URINE.
Claims use since Aug. 3, 1944.

---

Ser. No. 480,335. LAKESIDE LABORATORIES, INC., Milwaukee, Wis. Filed Feb. 28, 1945.

LIPOBIN

FOR SOLUTION OF BISMUTH TRI-α-ETHYL-CAPROATE IN SESAME OIL FOR USE ALONE OR ALTERNATELY WITH ANTI-SYPHILITIC ARSENALS OR MERCURIALS IN ANY STAGE OF SYPHILIS.
Claims use since Oct. 13, 1943.

---

Ser. No. 481,570. THE BENET DRUG CORPORATION, Cincinnati, Ohio. Filed Mar. 31, 1945.

DERLUS

FOR PREPARATION USED AS A SKIN LOTION.
Claims use since Jan. 1, 1940.

---

Ser. No. 482,762. THE PYN OINTMENT CO., Pensacola, Fla. Filed Apr. 28, 1945.




The drawing is lined to indicate shading only.
FOR OINTMENT FOR TREATMENT OF SUPERFICIAL BURNS AND MINOR SKIN IRRITATIONS.
Claims use since Apr. 9, 1945.

Ser. No. 483,328. B. LAPORTE LIMITED, Luton, Bedfordshire, England. Filed May 14, 1945.




The word "Brand" is disclaimed apart from the other features of the mark.

FOR HYDROGEN PEROXIDE, BARIUM CARBONATE, BARIUM PEROXIDE, BARIUM SULPHIDE, SODIUM ACID PHOSPHATE, SODIUM SULPHIDE, BENZOYL PEROXIDE, UREA HYDROGEN PEROXIDE, SODIUM PERSULPHATE, BARIUM HYDRATE, BARIUM SILICOFLUORIDE, BARIUS SULPHATE, SODIUM ACID PYROPHOSPHATE, SODIUM PERCARBONATE, CALCIUM PEROXIDE, AMMONIUM PERSULPHATE, BARIUM MONOXIDE, BARIUM STEARATE, SODIUM PHOSPHATE, SODIUM PYROPHOSPHATE, SODIUM PERBORATE, ZINC PEROXIDE, POTASSIUM PERSULPHATE.

Claims use since Mar. 9, 1917.

---

Ser. No. 484,370. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed June 9, 1945.

TYRODERM

FOR OINTMENT EFFECTIVE AGAINST BACTERIA AND USEFUL IN THE PREVENTION AND TREATMENT OF SKIN INFECTIONS AND IN THE THERAPY OF ULCERS AND WOUNDS.

Claims use since May 22, 1945.

---

Ser. No. 484,995. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 25, 1945.

PATINA

FOR NAIL POLISH.

Claims use since May 11, 1937.

---

Ser. No. 485,028. MORTON MANUFACTURING CORPORATION, Lynchburg, Va. Filed June 25, 1945.

VOICE OF *Flowers*

FOR PERFUME, FACE POWDER, AND TALCUM POWDER.

Claims use since May 4, 1945, on face powder; since May 1, 1945, on talcum powder; and since June 6, 1945, on perfume.

Ser. No. 485,035. ARTHUR SIEGMAN, INC., New York, N. Y. Filed June 25, 1945.

*saddle up*

FOR COLOGNE.

Claims use since Feb. 1, 1945.

---

Ser. No. 485,053. LEDERLE LABORATORIES, INC., New York, N. Y. Filed June 26, 1945.




The drawing is lined to indicate the color green.

FOR POULTRY PREPARATION USED FOR THE REMOVAL OF LARGE ROUNDWORMS AND CECAL WORMS FROM CHICKENS AND TURKEYS.

Claims use since May 21, 1945.

---

Ser. No. 485,119. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 28, 1945.

RUBRA

FOR ROUGE, LIPSTICK, AND NAIL POLISH.

Claims use since July 12, 1938.

---

Ser. No. 485,120. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 28, 1945.

VELVA LEG FILM

The words "Leg Film" are disclaimed apart from the mark as shown.

FOR LOTION FOR THE LEGS.

Claims use since Oct. 5, 1943.

---

Ser. No. 485,121. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 28, 1945.

VELVATEX CREAM

The word "Cream" is disclaimed apart from the mark as shown.

FOR FACE AND BODY CREAMS.

Claims use since May 11, 1937.



Ser. No. 485,675. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y. Filed July 11, 1945.

AEROSEAL

FOR COMPOUND TANNIN AND AN ORGANIC COLLOID USED TO REDUCE WATER LOSS IN OIL AND GAS WELL DRILLING MUDS.

Claims use since May 22, 1945.

---

Ser. No. 485,720. GEORGE W. BUTTON CO., trading as Bouton, New York, N. Y. Filed July 12, 1945.

AUDACIOUS

FOR PERFUME AND TOILET WATER.

Claims use since July 10, 1945.

---

Ser. No. 485,739. STEIN, HALL & CO., INC., New York, N. Y. Filed July 12, 1945.

SANYON

FOR GUM COMPOSITION USED AS A BINDER FOR PIGMENT PRINTING AND DYEING.

Claims use since Mar. 6, 1945.

---

Ser. No. 485,760. COTY, INC., New York, N. Y. Filed July 13, 1945.

*HALLELUJAH*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.

Claims use since June 29, 1945.

---

Ser. No. 485,761. COTY, INC., New York, N. Y. Filed July 13, 1945.

*SEJOUR*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.

Claims use since June 29, 1945.

---

Ser. No. 485,762. COTY, INC., New York, N. Y. Filed July 13, 1945.

*TOVARICH*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.

Claims use since June 29, 1945.

Ser. No. 485,763. COTY, INC., New York, N. Y. Filed July 13, 1945.

*VALIANCE*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.

Claims use since June 29, 1945.

---

Ser. No. 485,841. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed July 14, 1945.

BETANAL

FOR SEDATIVE TONIC.

Claims use since June 26, 1945.

---

Ser. No. 485,878. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed July 16, 1945.

X-C

FOR CALCIUM PHOSPHATES FOR LEAVENING PURPOSES.

Claims use since Aug. 13, 1942.

---

Ser. No. 486,002. RAVEL PERFUMES INC., New York, N. Y. Filed July 19, 1945.

ADAGIO

FOR PERFUMES.

Claims use since June 30, 1945.

---

Ser. No. 486,004. RAVEL PERFUMES INC., New York, N. Y. Filed July 19, 1945.

PAGAN

FOR PERFUMES.

Claims use since June 30, 1945.

---

Ser. No. 486,076. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed July 21, 1945.

CARNIVAL

FOR LIPSTICKS, LIP PENCILS, ROUGE, NAIL POLISH, PERFUME, TOILET WATER, FACE, DUSTING AND TALCUM POWDERS, AND FACE AND BODY CREAMS AND LOTIONS.

Claims use since Aug. 8, 1916.

Ser. No. 486,179. WILLIAM C. THATCHER, doing business as Metabs Remedy Company, Columbus, Ohio. Filed July 23, 1945.

METABS

FOR MEDICINAL PREPARATION IN TABLET FORM AND USED IN THE TREATMENT OF STOMACH, KIDNEY, LIVER, AND BOWEL DISORDERS.
Claims use since Jan. 20, 1928.

---

Ser. No. 486,292. COTY, INC., New York, N. Y. Filed July 26, 1945.

*LES MUSES*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.
Claims use since July 12, 1945.

---

Ser. No. 486,293. COTY, INC., New York, N. Y. Filed July 26, 1945.

*MUSE*

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES.
Claims use since July 12, 1945.

---

Ser. No. 486,358. THE DRUG PRODUCTS CO., INC., Long Island City, N. Y. Filed July 27, 1945.

MYOPONE

FOR OINTMENT PREPARATION FOR USE IN CASES OF FIBROSITIS, MYOSITIS, MYOFASCITIS, ETC.
Claims use since May 15, 1945.

---

Ser. No. 486,419. LYNETTE PERFUMES, INC., New York, N. Y. Filed July 28, 1945.

CONSPIRACY

FOR PERFUMES AND TOILET WATERS.
Claims use since Apr. 9, 1945.

## CLASS 9

### EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 480,000. SPORTS, INC., Chicago, Ill. Filed Feb. 19, 1945.

FRANZITE

FOR GRIPS FOR PISTOLS AND REVOLVERS, CARTRIDGE HOLDERS FOR USE ON BELTS, BUTT PLATES FOR RIFLE STOCKS, AND BUTT PLATE SPACERS.
Claims use since March 1940.

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 485,052. HERMAN J. KRAUS, doing business as Kraus Ribbon and Carbon Company, Pittsburgh, Pa. Filed June 26, 1945.

QUALITY IS PARAMOUNT

The words "Quality is Paramount" are disclaimed apart from the mark as shown.
FOR TYPEWRITER RIBBONS AND CARBON PAPER.
Claims use since Nov. 1, 1934.



## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 486,699. TRENT TUBE MANUFACTURING CO., East Troy, Wis. Filed Aug. 3, 1945.



The drawing is lined to indicate the color red.
FOR METAL TUBING.
Claims use since Sept. 10, 1943.

---

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 474,688. AIR REDUCTION SALES COMPANY, New York, N. Y. Filed Sept. 28, 1944.

AIRCO

FOR WELDING RODS FOR USE IN ELECTRIC ARC WELDING MACHINES.
Claims use since 1931.

---

## CLASS 15

### OILS AND GREASES

Ser. No. 480,862. EITEL-MCCULLOUGH, INC., San Bruno, Calif. Filed Mar. 13, 1945.

Eimac

FOR VACUUM PUMP OIL USED AS A PUMPING FLUID IN VACUUM PUMPS OF THE OIL DIFFUSION TYPE.
Claims use since September 1943.

Ser. No. 485,751. CENTRAL PETROLEUM COMPANY, Cleveland, Ohio. Filed July 13, 1945.

CENOLCO

FOR LUBRICATING OILS AND GREASES.
Claims use since Oct. 1, 1924.

---

Ser. No. 487,103. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Aug. 13, 1945.

BLAZO

Applicant is the owner of T. M. Reg. #319,543, dated Nov. 27, 1934.
FOR OIL FOR USE IN DOMESTIC RANGES.
Claims use since July 8, 1933, on word "Blazo," and since July 3, 1945, on mark as shown.

---

Ser. No. 488,498. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Sept. 15, 1945.

ARC

FOR GASOLINE.
Claims use since Aug. 27, 1945.

---

Ser. No. 488,499. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Sept. 15, 1945.

HI-ARC

FOR GASOLINE.
Claims use since Aug. 27, 1945.

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 480,211. L. SONNEBORN SONS, INC., New York, N. Y. Filed Feb. 24, 1945.

SONOSPAR

FOR VARNISHES FOR FLOORS, FURNITURE AND WOODWORK.
Claims use since 1920.

---

Ser. No. 486,214. JOHN MCQUADE & CO., INC., New York, N. Y. Filed July 24, 1945.

REDUSOL

FOR PAINT THINNERS AND PAINT OILS USED FOR THINNING OR EXTENDING PAINTS.
Claims use since July 1, 1941.

---

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 471,568. METROLOY COMPANY, Newark, N. J. Filed June 28, 1944.

METROLOY

FOR TUNGSTEN ELECTRICAL CONTACTS, TUNGSTEN LEAD-IN WIRES, TUNGSTEN ELECTRONIC OR RADIO TUBE SUPPORTS AND MOLYBDENUM ELECTRONIC OR RADIO TUBE SUPPORTS.
Claims use since at least as early as Sept. 21, 1939.

---

Ser. No. 473,171. AMERICAN COMMUNICATIONS CORPORATION, New York, N. Y. Filed Aug. 11, 1944.



FOR RADIO EQUIPMENT—NAMELY, LOUDSPEAKERS, ANTENNAS, MULTIPLE ANTENNA SYSTEMS, TRANSMITTERS, RECEIVERS, ELECTRICAL SYSTEMS FOR RECORDING CODE ON TAPE, AND CENTRAL RADIO RECEIVING SYSTEMS FOR THE ROOMS OF HOTELS AND LARGE APARTMENT HOUSES.
Claims use since Dec. 1, 1943.

Ser. No. 485,475. CLEAN-RITE VACUUM STORES OF WASHINGTON, INC., Washington, D. C. Filed July 5, 1945.

RUG MASTER

No claim is made to the word "Rug" apart from the mark.
FOR ELECTRIC VACUUM CLEANERS.
Claims use since on or about Jan. 10, 1942.

---

Ser. No. 486,112. LORAIN PRODUCTS CORPORATION, Lorain, Ohio. Filed July 21, 1945.

FLOTROL

FOR BATTERY CHARGERS.
Claims use since July 13, 1945.

---

Ser. No. 486,113. LORAIN PRODUCTS CORPORATION, Lorain, Ohio. Filed July 21, 1945.




FOR BATTERY CHARGERS.
Claims use since July 13, 1945.

---

Ser. No. 486,390. SCHWARTZ MANUFACTURING COMPANY, Baltimore, Md. Filed July 27, 1945.

MORECORDER

FOR ELECTRICALLY OPERATED DICTATING MACHINES.
Claims use since Mar. 22, 1944.

---

Ser. No. 486,443. ZENITH RADIO CORPORATION, Chicago, Ill. Filed July 28, 1945.

ZENITH

FOR ELECTRIC BATTERIES—NAMELY, DRY CELL BATTERIES AND DRY BATTERY POWER PACKS.
Claims use since July 6, 1937.



Ser. No. 486,606. BURKE & JAMES, INC., Chicago, Ill. Filed Aug. 2, 1945.

SOLER

FOR ELECTRIC FOOT SWITCHES.
Claims use since Jan. 5, 1945.

---

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 482,768. SHUR-LUK SPORT ACCESSORY COMPANY, Auburn, Ind. Filed Apr. 28, 1945.




FOR FLY-ROD LURES AND PLASTICIZED FISHING LINE BOBBERS.
Claims use since Jan. 1, 1945.

---

Ser. No. 486,918. JOHN SCARNE, Fairview, N. J. Filed Aug. 8, 1945.

TEKO

FOR GAME PLAYED WITH A CHECKERED BOARD AND COUNTERS.
Claims use since July 24, 1945.

---

Ser. No. 487,677. GRAMERCY TOY COMPANY, New York, N. Y. Filed Aug. 28, 1945.

"Lashee"

FOR TOY DOLLS AND TOY ANIMALS.
Claims use since Aug. 7, 1945.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 476,002. CLEMON W. BARKER, doing business as Barker Mfg. Co., Wichita, Kans. Filed Nov. 2, 1944.




The representation of the goods is disclaimed.
FOR MACHINE FOR HOLDING CARBURETORS, DISTRIBUTORS, AIR CLEANERS, AND SIMILAR ARTICLES IN CONVENIENT POSITIONS FOR WORK WHILE THEY ARE BEING ASSEMBLED, REPAIRED, CLEANED, AND ADJUSTED.
Claims use since Sept. 5, 1944.

---

Ser. No. 485,870. BENJAMIN C. KAYS, doing business as The H & H Company, Kansas City, Mo. Filed July 16, 1945.




FOR HARD FACED VALVES, ROCKER ARMS, FUEL PUMP SHAFTS AND TAPPETS FOR INTERNAL COMBUSTION ENGINES.
Claims use since October 1944.

---

Ser. No. 486,246. REGINALD DENNY INDUSTRIES, INC., Los Angeles, Calif. Filed July 25, 1945.

DENNYMITE

FOR INTERNAL COMBUSTION ENGINES.
Claims use since Oct. 15, 1937.

Ser. No. 486,438. LUDWIG SCHERK, INC., New York, N. Y. Filed July 28, 1945.

TARS

FOR RAZORS AND RAZOR BLADES.
Claims use since May 10, 1945.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 469,128. PITOMETER LOG CORPORATION, New York, N. Y. Filed Apr. 7, 1944.

PITLOG

FOR UNITARY SHIP'S LOG APPARATUS OF WHICH THE FOLLOWING ARE THE CONSTITUENT PARTS:—RODMETERS, SEA VALVES, COMPRISING GATE VALVES AND GEAR FOR OPERATING SAME; ROTARY DISTANCE TRANSMITTERS, COMPRISING ROTARY PUMPS, ELECTRIC DRIVING MOTORS, VARIABLE AUTO-TRANSFORMERS, RECTIFIERS, SELF-SYNCHRONOUS MOTORS, FOLLOW-UP MOTORS, REVOLUTION COUNTERS; HYDRAULIC BELLOWS AND ELECTRIC CONTACTS OPERATED THEREBY; MASTER SPEED INDICATORS; SPEED AND DISTANCE INDICATORS; AND CONSTANT FREQUENCY CONTROL APPARATUS FOR CONTROLLING THE FREQUENCIES OF THE ALTERNATING CURRENT OUTPUT OF A ROTARY CONVERTER AND COMPRISING SYNCHRONOUS MOTORS, ELECTRICALLY DRIVEN TUNING FORKS, AMPLIFIER TUBES, RHEOSTATS, TRANSFORMERS, CONDENSERS, AND ELECTRO-MAGNETS.
Claims use since Jan. 4, 1944.

Ser. No. 469,129. PITOMETER LOG CORPORATION, New York, N. Y. Filed Apr. 7, 1944.




FOR UNITARY SHIP'S LOG APPARATUS OF WHICH THE FOLLOWING ARE THE CONSTITUENT PARTS: RODMETERS, SEA VALVES, COMPRISING GATE VALVES AND GEAR FOR OPERATING SAME; ROTARY DISTANCE TRANSMITTERS, COMPRISING ROTARY PUMPS, ELECTRIC DRIVING MOTORS, VARIABLE AUTO-TRANSFORMERS, RECTIFIERS, SELF-SYNCHRONOUS MOTORS, FOLLOW-UP MOTORS, REVOLUTION COUNTERS; HYDRAULIC BELLOWS AND ELECTRIC CONTACTS OPERATED THEREBY; MASTER SPEED INDICATORS; SPEED AND DISTANCE INDICATORS; AND CONSTANT FREQUENCY CONTROL APPARATUS FOR CONTROLLING THE FREQUENCIES OF THE ALTERNATING CURRENT OUTPUT OF A ROTARY CONVERTER AND COMPRISING SYNCHRONOUS MOTORS, ELECTRICALLY DRIVEN TUNING FORKS, AMPLIFIER TUBES, RHEOSTATS, TRANSFORMERS, CONDENSERS, AND ELECTRO-MAGNETS.
Claims use since Jan. 4, 1944.

Ser. No. 469,130. PITOMETER LOG CORPORATION, New York, N. Y. Filed Apr. 7, 1944.




FOR UNITARY SHIP'S LOG APPARATUS OF WHICH THE FOLLOWING ARE THE CONSTITUENT PARTS: RODMETERS, SEA VALVES, COMPRISING GATE VALVES AND GEAR FOR OPERATING SAME; ROTARY DISTANCE TRANSMITTERS, COMPRISING ROTARY PUMPS, ELECTRIC DRIVING MOTORS, VARIABLE AUTO-TRANSFORMERS, RECTIFIERS, SELF-SYNCHRONOUS MOTORS, FOLLOW-UP MOTORS, REVOLUTION COUNTERS; HYDRAULIC BELLOWS AND ELECTRIC CONTACTS OPERATED THEREBY; MASTER SPEED INDICATORS; SPEED AND DISTANCE INDICATORS; AND CONSTANT FREQUENCY CONTROL APPARATUS FOR CONTROLLING THE FREQUENCIES OF THE ALTERNATING CURRENT OUTPUT OF A ROTARY CONVERTER AND COMPRISING SYNCHRONOUS MOTORS, ELECTRICALLY DRIVEN TUNING FORKS, AMPLIFIER TUBES, RHEOSTATS, TRANSFORMERS, CONDENSERS, AND ELECTRO-MAGNETS.
Claims use since Jan. 4, 1944.

Ser. No. 481,469. DEFENDER PHOTO SUPPLY CO., INC., Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware. Filed Mar. 29, 1945.

MULTICON

FOR LIGHT-SENSITIVE PHOTOGRAPHIC PAPER.
Claims use since Feb. 28, 1945.

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 485,857. ELIZABETH COWAN, Washington, D. C. Filed July 16, 1945.




No claim is made to the word "Original" except in connection with other features of the mark.
FOR EARRINGS, CLIPS, PINS, BROOCHES, AND ARTICLES OF ADORNMENT FOR PERSONAL WEAR, NOT INCLUDING WATCHES.
Claims use since Sept. 13, 1943.



## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 474,739. TRUTEST LABORATORIES, INC., Philadelphia, Pa. Filed Sept. 29, 1944.

TEST MASTER

FOR STORAGE CABINETS COMPRISING CASINGS PROVIDED WITH DOORS FOR HOUSING BOTTLES, FLASKS, TUBES, RODS, GRADUATES, BOXES, DROPPERS, CHARTS, SLIDES, CHEMICALS, AND THE LIKE.
Claims use since Feb. 22 1944.

Ser. No. 485,565. WILLIAM I. EVANS, Los Angeles, Calif. Filed July 9, 1945.




The words "Original-Versatile Adaptable" are disclaimed apart from the mark as shown.
FOR SERVING TABLES AND SERVING STANDS.
Claims use since Jan. 2, 1945.

Ser. No. 487,933. EAGLE MATTRESS COMPANY, INC., Allston, Mass. Filed Sept. 4, 1945.

PRINCESS SLEEP

FOR CRIB MATTRESSES.
Claims use since August 1935.

## CLASS 33

### GLASSWARE

Ser. No. 481,286. MISSISSIPPI GLASS COMPANY, St. Louis, Mo. Filed Mar. 24, 1945.

PLURALITE

FOR NON-LAMINATED GLASS IN SHEET FORM.
Claims use since Feb. 20, 1945.

Ser. No. 486,351. GEO. BORGFELDT CORPORATION, New York, N. Y. Filed July 27, 1945.

CORONET

Applicant is the owner of trade-mark Reg. No. 96,778, registered May 5, 1914, and trade-mark Reg. No. 63,524, registered June 25, 1907.
FOR GLASSWARE FOR DOMESTIC AND HOUSEHOLD USE—NAMELY, DINNER AND OTHER TABLE GLASSWARE; FANCY GOODS MADE OF GLASS—NAMELY, JUGS, DECANTERS, CONSOLE SETS CONSISTING OF A CENTER PIECE, SUCH AS A BOWL OR A DISH, AND TWO SIDE PIECES, FOR INSTANCE VASES, VANITY SETS, SALAD SETS, VASES AND ORNAMENTAL BOXES OR RECEPTACLES FOR GENERAL USE.
Claims use since about Oct. 1, 1944.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 486,878. THE STANDARD STOKER COMPANY, INC., New York, N. Y. Filed Aug. 7, 1945.

HT-M

FOR FUEL STOKERS.
Claims use since June 8, 1945.

Ser. No. 487,050. MATAWAN LIGHTER COMPANY, INC., New York, N. Y. Filed Aug. 11, 1945.

WINDY

FOR MECHANICAL CIGAR AND CIGARETTE LIGHTERS.
Claims use since July 31, 1945.

Ser. No. 487,543. AMERICAN GAS MACHINE COMPANY, Albert Lea, Minn. Filed Aug. 25, 1945.

AGM

FOR GAS AND OIL BURNING WATER HEATERS AND SPACE HEATERS USING OIL BURNERS.
Claims use since Nov. 7, 1944.

Ser. No. 487,657. ATOMIC LIGHTER CORPORATION, New York, N. Y. Filed Aug. 28, 1945.

ATOMIC

FOR FRICTION FLUID-SPARK, VAPOR POCKET LIGHTERS.
Claims use since Aug. 7, 1945

## CLASS 37
## PAPER AND STATIONERY

Ser. No. 472,238. THE C. L. DOWNEY COMPANY, Hannibal, Mo. Filed July 14, 1944.

AUTOMATIC

FOR COIN WRAPPERS.
Claims use since Jan. 1, 1919.

Ser. No. 475,865. THE PARKER PEN COMPANY, Janesville, Wis. Filed Oct. 30, 1944.



Applicant is the owner of Reg. No. 69,248, renewed, and Reg. No. 79,197, renewed.
FOR FOUNTAIN PENS, MECHANICAL PENCILS, AND DESK SETS.
Claims use since Aug. 1, 1932.

Ser. No. 484,867. WEST VIRGINIA PULP AND PAPER COMPANY, New York, N. Y. Filed June 21, 1945.

INSPIRATION

FOR WRITING PAPER, INDEX BRISTOL, AND BOOK PAPERS.
Claims use since Apr. 1, 1927.

Ser. No. 485,864. ABRAHAM I. FRIEDMAN, doing business as A. I. Friedman Company, New York, N. Y. Filed July 16, 1945.



The picture shown on the drawing is merely fanciful.
FOR WRITING AND LETTER PAPERS—NAMELY, LETTERHEADS, CORRESPONDENCE CARDS AND ENVELOPES, AND LAYOUT PADS, TRACING PAPER, DESK PADS, DIARIES, MEMORANDUM BOOKS, BLANK LEDGER BOOKS, DUPLICATING STENCILS, AND STENCIL SHEET AND PAPER.
Claims use since Feb. 7, 1939.

Ser. No. 485,921. PRUDENTIAL PAPER PRODUCTS COMPANY, New York, N. Y. Filed July 17, 1945.

*Air Bound*

Applicant is the owner of Reg. No. 404,490.
FOR WRITING PAPER, TABLETS, AND ENVELOPES.
Claims use since June 4, 1945.

Ser. No. 486,445. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed July 30, 1945.

A.S.R.

FOR PAPER BEDPAN COVERS.
Claims use since July 12, 1945.



Ser. No. 486,559. FREDERIC T. BURKHARDT, Holyoke, Mass. Filed Aug. 1, 1945.

STRATOSPHERE

FOR WRITING PAPER AND MAILING ENVELOPES.
Claims use since Oct. 16, 1934.

## CLASS 38
## PRINTS AND PUBLICATIONS

Ser. No. 482,400. SOUTH, INCORPORATED, New Orleans, La. Filed Apr. 20, 1945.

*South*

FOR MAGAZINE PUBLISHED MONTHLY ON SUBJECTS OF GENERAL INTEREST.
Claims use since Mar. 21, 1945.

Ser. No. 483,521. THE FOREST CITY PUBLISHING COMPANY, Cleveland, Ohio. Filed May 18, 1945.

CLEVELAND PLAIN DEALER

The word "Cleveland" shown on the drawing is disclaimed apart from the mark shown.
FOR NEWSPAPER.
Claims use since Jan. 7, 1842.

## CLASS 39
## CLOTHING

Ser. No. 467,576. JACOB SIEGEL COMPANY, Philadelphia, Pa. Filed Feb. 19, 1944.



Applicant is the owner of trade-mark registration, Nos. 60,063, 261,398, 284,147, and 313,340.
FOR MEN'S AND YOUNG MEN'S TOPCOATS AND OVERCOATS.
Claims use since Aug. 10 1906.

Ser. No. 478,204. BAMI INC., New York, N. Y. Filed Jan. 4, 1945.




Applicant disclaims the word "Sportswear." The drawing is lined for the color red.
FOR MEN'S AND WOMEN'S WEARING APPAREL—NAMELY, PAJAMAS, SPORT SHIRTS, DRESS SHIRTS, AND UNDER SHORTS.
Claims use since Sept. 1, 1944.

Ser. No. 480,582. THE HANDKERCHIEF CORPORATION OF AMERICA, Los Angeles, Calif. Filed Mar. 7, 1945.

*Cali-beauti*

For the purposes of registration, and without waiving any common law rights thereto, applicant disclaims the exclusive use of the word "beauti," apart from the mark.
FOR HANDKERCHIEFS, BELTS FOR OUTERWEAR, SUSPENDERS, AND SCARFS.
Claims use since 1939.

Ser. No. 482,383. EDDIE LINICK, New York, N. Y. Filed Apr. 20, 1945.

MAC-ED ORIGINALS

The applicant disclaims the right to the word "Originals" apart from the mark.
FOR LADIES' AND CHILDREN'S GLOVES AND MITTENS MADE OF LEATHER, FABRIC, AND FUR, AND OF COMBINATIONS THEREOF.
Claims use since Feb. 1, 1945.

Ser. No. 482,878. MORRIS KATZ & SONS, New York, N. Y. Filed May 2, 1945.

KITTEN'S BY KATZ

The phrase "by Katz" is disclaimed except in the relation and association shown on the drawing.
FOR MEN'S, WOMEN'S, AND CHILDREN'S SLIPPERS MADE OF SHEARLINGS AND LEATHER.
Claims use since March 1945.

Ser. No. 483,952. AUDIWEAR ACCESSORIES COMPANY, Brooklyn, N. Y. Filed May 30, 1945.

Audiwear

FOR UNDERGARMENTS IN THE FORM OF SUPPORTING HARNESS FOR HEARING AID EQUIPMENT.
Claims use since Mar. 27, 1945.

Ser. No. 484,525. EROATTO GLOVES INC., Brooklyn, N. Y. Filed June 14, 1945.

Mug-Wumps

FOR MEN'S, WOMEN'S, AND CHILDREN'S SLIPPERS AND MITTENS.
Claims use since Feb. 1, 1945.

Ser. No. 484,926. ARONOFF, RICHLING & FEIN, INC., New York, N. Y. Filed June 23, 1945.

Jr.

The notation "Jr.," is disclaimed apart from the mark as shown.
FOR LADIES' AND CHILDREN'S DRESSES, SUITS, AND COATS.
Claims use since May 23, 1945.

Ser. No. 485,015. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C. Filed June 25, 1945.

FLATTERNIT
FITTED HOSIERY
Supporter Lengths
*FOR FLATTERING FIT*

No claim is made to the words "Fitted Hosiery, Supporter Lengths, for Flattering Fit" apart from the mark as shown.
FOR LADIES' HOSIERY.
Claims use since June 8, 1945.

Ser. No. 485,175. STERN, MERRITT CO. INC., New York N. Y. Filed June 28, 1945.

LONGCHAMPS

FOR MUFFLERS AND MEN'S SPORT SHIRTS.
Claims use since Jan. 1, 1926.

Ser. No. 485,179. HYMAN H. STUTMAN, Brighton, Mass. Filed June 28, 1945.

FAIR LADY
A Stutman Original

The wording "A Stutman Original" is disclaimed apart from the mark as shown.
FOR LADIES' AND MISSES' DRESSES.
Claims use since Oct. 2, 1944.

Ser. No. 486,041. JORDAN MARSH COMPANY, Boston, Mass. Filed July 20, 1945.

FANEUIL

FOR MEN'S CLOTHING—NAMELY, SUITS AND COATS.
Claims use since Apr. 22, 1945.

## CLASS 40

## FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 482,351. RUBBER CORPORATION OF AMERICA, Brooklyn, N. Y. Filed Apr. 19, 1945.

RC

FOR LADIES' DRESS SHIELDS.
Claims use since Feb. 23, 1945.

Ser. No. 483,724. GOLDMAN BROS., New York, N. Y. Filed May 24, 1945.

Pin-up Girl

No claim is made to the word "Pin" apart from the mark as shown.
FOR BOBBY PINS.
Claims use since Nov. 30, 1944.



Ser. No. 483,924. ADOLPH REITER, New York, N. Y. Filed May 29, 1945.

LIFETIME

FOR SHOE LACES AND GARMENT LACINGS.
Claims use since April 1945.

Ser. No. 484,215. HENRY POLLAK, INC., New York, N. Y. Filed June 6, 1945.

NEPA

FOR HAT BRAIDS AND MILLINERY BRAIDS.
Claims use since Jan. 15, 1945.

## CLASS 42

## KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 480,897. THE FORSTMANN WOOLEN CO., Passaic, N. J. Filed Mar. 14, 1945.

Cathedral Shades

Applicant disclaims the right to the exclusive use of the word "Shades" except in the relation and association shown.
FOR WOOLEN PIECE GOODS.
Claims use since Feb. 10, 1945.

Ser. No. 482,352. RUBBER CORPORATION OF AMERICA, Brooklyn, N. Y. Filed Apr. 19, 1945.

RC

FOR BABY CRIB SHEETS.
Claims use since Mar. 5, 1945.

Ser. No. 486,085. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed July 21, 1945.

"AYERSHIRE"

FOR PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.
Claims use since about July 19, 1945.

Ser. No. 486,357. DEERING MILLIKEN & CO. INC., New York, N. Y. Filed July 27, 1945.

Minkasha

FOR FABRIC CONSTRUCTED IN THE WARP AND FILLING FROM A WOOL YARN BLENDED WITH A MINK HAIR FUR.
Claims use since May 17, 1945.

Ser. No. 486,831. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed Aug. 6, 1945.

SATINARA

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON RAYON, PROTEIN FIBRES AND MIXTURES THEREOF.
Claims use since Jan. 23, 1924.

## CLASS 44

## DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 464,968. JOHN D. HARRIS, Larchmont, N. Y. Filed Nov. 13 1943.

D
U
DUGUD
U
D

DO GOOD

FOR SURGICAL TAPE.
Claims use since Oct. 27, 1943.

Ser. No. 486,335. THE SCHOLL MFG., INC., Chicago, Ill. Filed July 26, 1945.

FLEXIBAND

FOR FLEXIBLE ADHESIVE BANDAGES.
Claims use since Jan. 5, 1945.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 462,020. MARITIME MILLING CO., INC., Buffalo, N. Y. Filed July 12, 1943.




Applicant is the owner of trade-mark registrations 204,081, 284,352, and 344,371. Applicant disclaims the notation "100 Lbs. Net," and the representation of the outline of the label.

FOR DAIRY, STOCK AND POULTRY FEEDS, AND DOG FOOD, CHICK FEED, DUCK GROWING AND FINISHING RATION, DUCK STARTER RATION, TURKEY GROWING MASH, TURKEY FITTING RATION, EGG MASH, LAYER AND BREEDER MASH, STATION FATTENING FEED, CONDITIONING MASH, PIG AND HOG CONCENTRATE, SCRATCH FEED, BROOD MARE AND COLT RATION, GOAT AND HOG FEEDS.

Claims use since Jan. 1, 1929, as to large letters "B-B"; and since Jan. 1, 1937, as to mark as shown.

---

Ser. No. 467,591. COUNTRY GARDENS, INC., Gillett, Wis. Filed Feb. 21, 1944.

COUNTRY GARDEN

Applicant is the owner of registration No. 314,223, granted to its predecessor, Gillett Canning Company, on June 19, 1934, for the same trade-mark applied to canned peas.

FOR CANNED VEGETABLES.

Claims use since Nov. 14, 1933.

Ser. No. 473,747. PHOEBE PHELPS CARAMEL COMPANY, Boston, Mass. Filed Aug. 30, 1944.




No rights are claimed for the name "Phoebe Phelps" apart from the mark as shown.

FOR CANDY.

Claims use since January 1913 for the picture; and since 1930 for the mark as shown.

---

Ser. No. 474,029. JOHN ERSKINE FROST, doing business as Delta Canning Company, Raymondville, Tex. Filed Sept. 9, 1944.

DELCAN

FOR CANNED CREAM PEAS.

Claims use since Apr. 18, 1944.

---

Ser. No. 474,706. NORTH DAKOTA MILL & ELEVATOR ASSOCIATION, doing business as North Dakota Mill & Elevator, and State Mill & Elevator, Grand Forks, N. Dak. Filed Sept. 28, 1944.

BIG FIFTEEN

FOR WHEAT FLOUR.

Claims use since about Aug. 1, 1932.

---

Ser. No. 479,962. WILBUR-SUCHARD CHOCOLATE COMPANY, INC., Borough of Lititz, Pa. Filed Feb. 17, 1945. Under 10-year proviso.

Wilbur Buds

FOR CANDY AND CHOCOLATE.

Claims use since 1893.

---

Ser. No. 481,937. BOECKELER ASSOCIATES, Trenton, Mich. Filed Apr. 10, 1945.

PRO-VAP

FOR DISTILLERS DRIED SOLUBLES FOR USE AS POULTRY, HORSE AND CATTLE FEEDS.

Claims use since Jan. 24, 1945.



Ser. No. 482,696. OLYMPIA BREWING COMPANY, Olympia, Wash. Filed Apr. 27, 1945.

feedeast

FOR DRIED BREWER'S YEAST IN POWDERED FORM FOR USE AS AN ANIMAL OR FOWL CONDITIONING FOOD.

Claims use since Oct. 2, 1944.

---

Ser. No. 483,061. IOWA FEED COMPANY, Des Moines, Iowa. Filed May 7, 1945.

IFLOK-D-3

Applicant disclaims exclusive right to the use of the expression "D-3" apart from the mark shown.

FOR D-ACTIVATED ANIMAL STEROL DISPERSED ON SOYBEAN OIL MEAL AS A CARRIER FOR USE AS AN ADDITION TO POULTRY FEED.

Claims use since Apr. 6, 1945.

---

Ser. No. 485,620. RICHARD WILLEY, doing business as Popjoy Popcorn Company, Council Bluffs, Iowa. Filed July 9, 1945.



No claim is made to the representation of the ear of corn apart from the mark shown.

FOR POPPED AND UNPOPPED POPCORN.

Claims use since Mar. 22, 1945.

---

Ser. No. 486,102. H. FOX & CO., Brooklyn, N. Y. Filed July 21, 1945.

u-bet

Applicant is the owner of registration No. 211,155, registered Apr. 6, 1926.

FOR SIRUPS FOR THE PREPARATION OF MILK DRINKS.

Claims use since Apr. 27, 1942.

## CLASS 47

### WINES

Ser. No. 478,935. MUNSON G. SHAW CO., New York, N. Y. Filed Jan. 23, 1945.

ANNIVERSARY

The lining on the drawing is for the purpose of shading only.

FOR WINES.

Claims use since 1903.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 471,410. MULTI PRODUCTS, INCORPORATED, Chicago, Ill. Filed June 19, 1944.

Aristocraft
DECORATIVE APPOINTMENTS by MULTI

No claim is made to the words "Decorative Appointments by" except as a part of the mark shown.

FOR NOVELTIES—NAMELY, WALL PLAQUES, FIGURINES, AND STATUETTES.

Claims use since May 17, 1944.

---

Ser. No. 478,494. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo. Filed Jan. 11, 1945.




The word "Tanks" is disclaimed except as used in conjunction with the other features of the mark.

FOR HOG FEEDERS, HOG WATERERS, STEEL LADDERS, AND PORTABLE STOCK FOUNDATIONS.

Claims use since Dec. 15, 1935, on steel ladders; and since Jan. 1, 1927, on the rest of the goods.

---

Ser. No. 482,889. NORTH BERGEN RUBBER MFG. CO., North Bergen, N. J. Filed May 2, 1945.

AMISTAN

FOR RUBBER AND/OR PLASTIC COMPOSITION IN SHEET FORM FOR MAKING SHOE SOLES.

Claims use since Apr. 17, 1945.

---

Ser. No. 482,890. NORTH BERGEN RUBBER MFG. CO., North Bergen, N. J. Filed May 2, 1945.

HANISTAN

FOR RUBBER AND/OR PLASTIC COMPOSITION IN SHEET FORM FOR MAKING SHOE SOLES.

Claims use since Mar. 30, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

**[ACT OF FEBRUARY 20, 1905]**

## NOVEMBER 20, 1945

417,818. MEN'S HATS. ADAM HAT STORES, INC., New York, N. Y.
Filed September 30, 1941. Serial No. 447,415. PUBLISHED JANUARY 20, 1942. Class 39.

417,819. MEN'S HATS. ADAM HAT STORES, INC., New York, N. Y.
Filed September 30, 1941. Serial No. 447,417. PUBLISHED JANUARY 20, 1942. Class 39.

417,820. CANDY. CHRISTOS PALEOS, doing business as C. A. Paleos Co., Lowell, Mass.
Filed May 25, 1943. Serial No. 460,903. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,821. DRAFTING MACHINES OF THE TYPE IN WHICH RULERS ARE MOVABLE OVER A DRAFTING SURFACE, WHILE THEIR ORIENTATION IN AN ANGULAR SENSE WITH RESPECT TO THE DRAFTING SURFACE IS MAINTAINED CONSTANT. V. & E. MANUFACTURING CO., Pasadena, Calif., assignor to V. & E. Manufacturing Co., Pasadena, Calif., a limited partnership of California
Filed October 6, 1943. Serial No. 463,962. PUBLISHED SEPTEMBER 4, 1945. Class 26.

417,822. DAIRY, HOG, AND POULTRY EQUIPMENT—NAMELY, THERMOMETERS, HYGROMETERS, AND SOIL TESTING KITS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 17, 1943. Serial No. 465,083. PUBLISHED SEPTEMBER 11, 1945. Class 26

417,823. WOMEN'S AND GIRLS' SHOES OF LEATHER, FABRIC, OR RUBBER OR OF COMBINATIONS OF SAID MATERIALS. BOURBEUSE SHOE COMPANY, Union, Mo.
Filed February 17, 1944. Serial No. 467,485. PUBLISHED AUGUST 21, 1945. Class 39.

417,824. MINERAL PREPARATION FOR USE AS A FOOD SUPPLEMENT FOR FARM ANIMALS, CONTAINING CHARCOAL, BONE BLACK, CARBON BLACK, GROUND LIMESTONE AND CONDITIONING SALTS. FOREST PRODUCTS CHEMICAL COMPANY, Memphis, Tenn.
Filed April 17, 1944. Serial No. 469,390. PUBLISHED APRIL 3, 1945. Class 6.

417,825. MEN'S, WOMEN'S, AND CHILDREN'S CLOTHING—NAMELY, COATS, SUITS, SWEATERS, UNDERWEAR, GLOVES OF LEATHER AND FABRIC, HATS, HOSIERY, AND SHOES MADE OF LEATHER, FABRIC, RUBBER, OR A COMBINATION OF SUCH MATERIALS. ALLIED STORES CORPORATION, Wilmington Del., doing business as "The Bon Marche", Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J
Filed May 5, 1944. Serial No. 469,948. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,826. LADIES' AND MISSES' DRESSES, BLOUSES, SKIRTS, PLAYSUITS, AND PINAFORES. MAYFLOWER DRESS CO., INC., New York, N. Y.
Filed May 17, 1944. Serial No. 470,343. PUBLISHED JULY 18, 1944. Class 39.

417,827. MEDICINAL PREPARATION FOR SUPPLYING IRON, CALCIUM AND VITAMIN D ESPECIALLY DURING PREGNANCY AND THE PUERPERIUM AND FOR IRON DEFICIENCY ANEMIA. CHARLES C. HASKELL & CO., INC., Richmond, Va.
Filed May 20, 1944. Serial No. 470,447. PUBLISHED AUGUST 28, 1945. Class 6.

417,828. NECKTIES. CHENEY BROTHERS, Manchester, Conn.
Filed May 27, 1944. Serial No. 470,704. PUBLISHED AUGUST 28, 1945. Class 39.

417,829. MIRRORS AND MIRROR-FRAMES FOR PERSONAL AND HOUSEHOLD USES. JOHN P. NICHOLS, Philadelphia, Pa.
Filed May 31, 1944. Serial No. 470,820. PUBLISHED SEPTEMBER 11, 1945. Class 32.

417,830. ORGANO-SILICON COMPOUNDS FOR USE IN MAKING PLASTICS, FILMS, AND FILAMENTS; FOR USE IN COMPOSITIONS COMPRISING RESINS, CELLULOSE DERIVATIVES, RUBBER, OILS, ETC. FRANK J. SOWA, doing business as Sowa Chemical Company, New York, N. Y.
Filed June 2, 1944. Serial No. 470,866. PUBLISHED SEPTEMBER 11, 1945. Class 1.

417,831. SHOES FOR INFANTS, SAID SHOES BEING LEATHER SHOES. A. WERMAN & SONS, INC., Brooklyn, N. Y.
Filed June 7, 1944. Serial No. 471,011. PUBLISHED AUGUST 21, 1945. Class 39.

417,832. COMPOUNDS FOR CLEANING AND POLISHING METALS. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed June 21, 1944. Serial No. 471,499. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,833. SENSITIZED PHOTOGRAPHIC PAPER, SENSITIZED PHOTOGRAPHIC PLATES, AND SENSITIZED FILMS. BURKE & JAMES, INC., Chicago, Ill.
Filed July 17, 1944. Serial No. 472,315. PUBLISHED SEPTEMBER 11, 1945. Class 26.

417,834. BIOLOGICAL PRODUCTS—NAMELY, NORMAL HUMAN PLASMA, DRIED; NORMAL HUMAN PLASMA, LIQUID; NORMAL HUMAN SERUM USED IN TRANSFUSIONS TO REPLACE DEPLETED FULID VOLUME OF PATIENT; ETC. CLARENCE M. HYLAND, doing business as Hyland Laboratories, Los Angeles, Calif., assignor to Hyland Laboratories, Los Angeles, Calif., a corporation of California.
Filed July 18, 1944. Serial No. 472,360. PUBLISHED FEBRUARY 6, 1945. Class 6.

417,835. LIQUID HAND CLEANER AND HAND CLEANING CREAM FOR REMOVING HECTOGRAPH CARBON INK AND SIMILAR INKS AND CHEMICAL STAINS. REMINGTON RAND INC., Buffalo, N. Y.
Filed July 28, 1944. Serial No. 472,714. PUBLISHED SEPTEMBER 4, 1945. Class 4.

417,836. COUGH REMEDY. SCOTT & BOWNE, Bloomfield, N. J.
Filed August 12, 1944. Serial No. 473,228. PUBLISHED JULY 17, 1945. Class 6.

417,837. SKIN OINTMENT. SCOTT & BOWNE, Bloomfield, N. J.
Filed August 12, 1944. Serial No. 473,229. PUBLISHED JULY 17, 1945. Class 6.

417,838. CHEMICALS, PREPARATIONS AND COMPOUNDS THEREOF USED IN PHOTOGRAPHIC PROCESSES—NAMELY, CHEMICAL COMPOUNDS DISPERSED IN AN AQUEOUS COLLOIDAL MEDIA EMPLOYED FOR COLORING GELATIN SHEETS, ETC. GENERAL ANILINE & FILM CORPORATION, New York, N. Y.
Filed August 15, 1944. Serial No. 473,279. PUBLISHED SEPTEMBER 4, 1945. Class 6.





417,839. PREPARED CAKE MIXES, GINGER BREAD MIX, MUFFIN MIX, ICE CREAM MIX, FOOD FLAVORING EXTRACTS, AND POWDERS FOR MAKING PUDDINGS. MOTHER'S CHOICE PRODUCTS, INC., Brooklyn, N. Y.
Filed September 5, 1944. Serial No. 473,903. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,840. PREPARATION IN LIQUID FORM FOR USE AS A HAIR TONIC. JOHN E. RESPONDEK, doing business as Korona Company, Detroit, Mich.
Filed September 22, 1944. Serial No. 474,509. PUBLISHED AUGUST 28, 1945. Class 6.

417,841. WRITING PAPER. BRIGHTWATER PAPER COMPANY, Dover, Del., and Adams, Mass.
Filed October 2, 1944. Serial No. 474,777. PUBLISHED SEPTEMBER 11, 1945. Class 37.

417,842. MEDICINAL PREPARATION FOR THE TREATMENT OF CLIMACTERIC COMPLAINTS. HERMAN BERGER, doing business as Standard Pharmaceutical Co., New York, N. Y.
Filed October 5, 1944. Serial No. 474,944. PUBLISHED APRIL 24, 1945. Class 6.

417,843. PERFUMES. MIAHATI, INC., New York, N. Y.
Filed October 5, 1944. Serial No. 474,950. PUBLISHED AUGUST 28, 1945. Class 6.

417,844. WOMEN'S HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed October 6, 1944. Serial No. 474,994. PUBLISHED AUGUST 28, 1945. Class 39.

417,845. MEN'S, WOMEN'S, AND CHILDREN'S SPORTS WEAR—NAMELY, SUN-SUITS, PLAY-SUITS, BLOUSES, ATHLETIC TRUNKS AND BRASSIÈRES; MEN'S AND WOMEN'S SPORT SHIRTS AND KNITTED OUTER GARMENTS—NAMELY, COATS, JACKETS, AND VESTS. CATALINA KNITTING MILLS, Los Angeles, Calif., now by change of name Catalina, Inc., a corporation of California
Filed October 31, 1944. Serial No. 475,897. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,846. POLY-VITAMIN PRODUCT COMPRISING VITAMINS A, $B^1$, $B^2$, $B^6$, NIACIN, CALCIUM PANTOTHENATE C AND D. SARAH ANN AYRES, Los Angeles, Calif.
Filed November 6, 1944. Serial No. 476,130. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,847. FRESH CHERRIES, CANNED CHERRIES, AND CHERRIES PRESERVED IN SYRUP. HOWARD BLACK, doing business as Howard Black Cherry Co., Traverse City, Mich.
Filed November 7, 1944. Serial No. 476,168. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,848. FRESH CITRUS FRUIT. REDLANDS FOOTHILL GROWERS, Redlands, Calif.
Filed November 8, 1944. Serial No. 476,261. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,849. WOMEN'S, MISSES', AND GIRLS' DRESSES, SUITS, SKIRTS, BLOUSES, WAISTS, AND COATS. MARY LEE, INC., New York, N. Y.
Filed November 21, 1944. Serial No. 476,741. PUBLISHED SEPTEMBER 11, 1945. Class 39.

417,850. PERFUMES. LEONE MCINTOSH, New York, N. Y.
Filed November 23, 1944. Serial No. 476,810. PUBLISHED AUGUST 28, 1945. Class 6.

417,851. CIGARS. LOPEZ, FERNANDES & CO., Cabalguan, Cuba.
Filed November 29, 1944. Serial No. 477,024. PUBLISHED SEPTEMBER 11, 1945. Class 17.

417,852. PERFUMES, SACHETS, TOILET WATER, LIPSTICKS, COLD CREAMS, AFTER-SHAVE LOTIONS AND FACE LOTIONS, AFTER-SHAVE CREAMS, HAIR LOTIONS FOR WAVING, HAIR TONICS, BATH SALTS, AND BATH OILS. NARDAU, LTD., New York, N. Y.
Filed December 20, 1944. Serial No. 477,788. PUBLISHED AUGUST 28, 1945. Class 6.

417,853. CHILDREN'S STORY BOOKS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed December 23, 1944. Serial No. 477,864. PUBLISHED SEPTEMBER 11, 1945. Class 38.

417,854. EDUCATIONAL TOYS—NAMELY, TOYS COMPOSED OF OR INCLUDING A CYLINDER CARRYING PICTURES AND DESCRIPTIVE MATTER RELATING THERETO. TILLERY CONTAINER CO., Kansas City, Mo.
Filed December 27, 1944. Serial No. 477,987. PUBLISHED SEPTEMBER 11, 1945. Class 22.

417,855. PLASTIC TOY FURNITURE AND KITCHEN UTENSILS—NAMELY, TABLES, CHAIRS, REFRIGERATORS, STOVES, SINKS, CABINETS, BREAKFAST BARS, CUPS, SAUCERS, PLATES, POTS, KETTLES, BOWLS, KNIVES, SPOONS AND FORKS, AND FOR TOY TEXTILE CURTAINS. COLUMBIA PROTEKTOSITE CO., INC., Carlstadt, N. J.
Filed January 5, 1945. Serial No. 478,267. PUBLISHED MARCH 20, 1945. Class 22.

417,856. LADIES' HANDBAGS. L & N SPECIALTIES COMPANY, Chicago, Ill.
Filed January 10, 1945. Serial No. 478,457. PUBLISHED SEPTEMBER 11, 1945. Class 3.

417857. PERIODICAL. AMERICAN INTERNATIONAL PUBLICATIONS INC., New York, N. Y.
Filed January 11, 1945. Serial No. 478,485. PUBLISHED SEPTEMBER 4, 1945. Class 38.

417,858. MISSES' AND CHILDREN'S DRESSES. G., H. & E. FREYDBERG INC., New York, N. Y.
Filed January 12, 1945. Serial No. 478,548. PUBLISHED SEPTEMBER 11, 1945. Class 39.

417,859. UNBLEACHED SULPHITE PULP. GASPESIA SULPHITE COMPANY LTD., Quebec, Quebec, Canada.
Filed January 13, 1945. Serial No. 478,580. PUBLISHED SEPTEMBER 11, 1945. Class 1.

417,860. FRESH VEGETABLES—NAMELY, SPROUTS AND CAULIFLOWER. HALF MOON BAY GROWERS ASSOCIATION, San Francisco, Calif.
Filed January 15, 1945. Serial No. 478,630. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,861. FEATHERS AND DOWN FOR UPHOLSTERY AND BEDDING. YORK FEATHER & DOWN CO., Brooklyn, N. Y.
Filed January 16, 1945. Serial No. 478,696. PUBLISHED SEPTEMBER 11, 1945. Class 1.

417,862. FEATHERS AND DOWN FOR UPHOLSTERY AND BEDDING. YORK FEATHER & DOWN CO., Brooklyn, N. Y.
Filed January 16, 1945. Serial No. 478,697. PUBLISHED SEPTEMBER 11, 1945. Class 1.

417,863. SOAPS. S. H. KRESS AND COMPANY, New York, N. Y.
Filed January 31, 1945. Serial No. 479,241. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,864. READY-MIXED PAINTS, VARNISHES, AND PAINT ENAMELS AND THE LIKE. MAC-O-LAC PAINT & VARNISH WORKS, Detroit, Mich.
Filed February 1, 1945. Serial No. 479,293. PUBLISHED SEPTEMBER 4, 1945. Class 16.

417,865. TOILET WATER, PERFUMES, EAU DE COLOGNE, SACHETS, AND BRILLIANTINES. MEM COMPANY, New York, N. Y., assignor to Mem Company, a copartnership composed of Paul M. E. Mayer, Renee A. Mayer, and Stephen Herbert Mayer.
Filed February 3, 1945. Serial No. 479,394. PUBLISHED AUGUST 28, 1945. Class 6.

417,866. CANDY. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa.
Filed February 9, 1945. Serial No. 479,655. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,867. SPRAY OIL AND POLISH FOR USE ON FLOORS, FURNITURE, AND WOODWORK. C-Z CHEMICAL COMPANY, Beloit, Wis.
Filed February 14, 1945. Serial No. 479,770. PUBLISHED SEPTEMBER 11, 1945. Class 16.

417,868. LINIMENT FOR RELIEF OF COLDS, IRRITATION OF THE THROAT, SPRAINS. JOHN R. HEBERT, doing business as R. B. Hebert & Son, Lynn, Mass.
Filed February 14, 1945. Serial No. 479,797. PUBLISHED AUGUST 28, 1945. Class 6.

417,869. SYNTHETIC RUBBER BABY PANTS. GOODYEAR RUBBER SUNDRIES, INC., New Haven, Conn.
Filed February 27, 1945. Serial No. 480,287. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,870. PERMANENT WAVE LOTION SOLUTION AND A PRIMER FOR USE BEFORE USING COLD WAVING SOLUTION. DUART MANUFACTURING CO., LTD., San Francisco, Calif.
Filed March 3, 1945. Serial No. 480,442. PUBLISHED AUGUST 28, 1945. Class 6.

417,871. SILVER CLEANER. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed March 7, 1945. Serial No. 480,584. PUBLISHED AUGUST 28, 1945. Class 4.

417,872. LABORATORY EQUIPMENT PARTICULARLY SUCH FOR HANDLING CORROSIVE LIQUIDS—NAMELY, AGITATORS, TANKS, CONDENSERS, DENITRATING EQUIPMENT, DISTILLING APPARATUS, EVAPORATORS, FILTERS, BLEACHING EQUIPMENT, KETTLES, KJELDAHL DIGESTION APPARATUS, ACID RECONDITIONING APPARATUS, THERMOMETER WELLS, CONCENTRATING TOWERS, AND WET ASHING EQUIPMENT. THE DURIRON COMPANY, INC., Dayton, Ohio.
Filed March 10, 1945. Serial No. 480,747. PUBLISHED SEPTEMBER 11, 1945. Class 26.

417,873. CANDY. ADAMS CANDY COMPANY, Dallas, Tex.
Filed March 15, 1945. Serial No. 480,941. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,874. THERMOMETERS. IRVING KLAMKIN, Brooklyn, N. Y.
Filed March 16, 1945. Serial No. 480,991. PUBLISHED SEPTEMBER 4, 1945. Class 26.

417,875. PHOTOGRAPHS AND PHOTOGRAPHIC PRINTS. GOLDCRAFT PORTRAITS, Washington, D. C.
Filed March 20, 1945. Serial No. 481,108. PUBLISHED SEPTEMBER 11, 1945. Class 38.

417,876. PERFUMES. BONWIT TELLER, INC., New York, N. Y.
Filed March 24, 1945. Serial No. 481,261. PUBLISHED JUNE 26, 1945. Class 6.

417,877. APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, DRESSES, SUITS, PANTS, PLUS FOURS, GAITERS, CAPS, VESTS, COATS, ETC. FREDERIC J. DOMMER, New York, N. Y.
Filed March 24, 1945. Serial No. 481,272. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,878. MEN'S OUTDOOR LEATHER AND CLOTH LINED JACKETS AND COATS; MEN'S OUTDOOR SHEEP-LINED JACKETS AND COATS, ETC. WEBER SPORTSWEAR CO., Newburgh, N. Y.
Filed March 27, 1945. Serial No. 481,395. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,879. PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, LACQUERS, JAPANS, VARNISHES, STAINS, PAINT FILLERS, ETC. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed March 28, 1945. Serial No. 481,440. PUBLISHED SEPTEMBER 4, 1945. Class 16.

417,880. MEN'S, WOMEN'S, MISSES', AND CHILDREN'S GLOVES AND MITTENS MADE OF LEATHER OR FABRIC, OR ANY COMBINATION THEREOF. ARIS GLOVES, INC., New York, N. Y.
Filed March 29, 1945. Serial No. 481,451. PUBLISHED AUGUST 21, 1945. Class 39.

417,881. CHEMICALS USED IN COMBINATION WITH RESINS AND RESIN DISPERSIONS FOR WATERPROOFING TEXTILES AND PAPER. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed March 31, 1945. Serial No. 481,584. PUBLISHED AUGUST 28, 1945. Class 6.

417,882. HOROLOGICAL INSTRUMENTS—NAMELY, WATCHES AND CLOCKS. POST WATCH COMPANY, New York, N. Y.
Filed April 4, 1945. Serial No. 481,713. PUBLISHED SEPTEMBER 11, 1945. Class 27.

417,883. WOMEN'S GARMENTS—NAMELY, DICKIES AND BLOUSES. LOUIS GRIOER, INC., New York, N. Y.
Filed April 5, 1945. Serial No. 481,741. PUBLISHED AUGUST 28, 1945. Class 39.

417,884. LADIES' AND MISSES' COATS, SUITS, DRESSES, BLOUSES, SKIRTS, SWEATERS, SLIPS, ETC. JANE ALEXANDER, Valley Stream, N. Y.
Filed April 6, 1945. Serial No. 481,768. PUBLISHED AUGUST 21, 1945. Class 39.

417,885. SALTED, CANDIED, AND PLAIN NUT MEATS. THE KELLING NUT CO., Chicago, Ill.
Filed April 6, 1945. Serial No. 481,792. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,886. DRY CLEANING SOLVENTS. STAUFFER CHEMICAL COMPANY, San Francisco, Calif.
Filed April 7, 1945. Serial No. 481,863. PUBLISHED AUGUST 28, 1945. Class 4.

417,887. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE, TALCUM AND BATH POWDER, LIQUID AND CAKE ROUGE, LIPSTICK, FACE AND HAND CREAMS AND LOTIONS AND BATH SALTS. JANE ALEXANDER, Valley Stream, N. Y.
Filed April 9, 1945. Serial No. 481,876. PUBLISHED AUGUST 28, 1945. Class 6.

417,888. WOMEN'S OUTER SKIRTS. MACK SEPLER, New York, N. Y.
Filed April 11, 1945. Serial No. 482,019. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,889. GUMMED PAPER TAPE USED FOR SEALING PACKAGES, CARTONS, AND SHIPPING CONTAINERS. TAPE, INCORPORATED, Green Bay, Wis.
Filed April 11, 1945. Serial No. 482,024. PUBLISHED SEPTEMBER 11, 1945. Class 37.

417,890. MEN'S SHOES OF LEATHER, RUBBER, FABRIC, FIBRE, OR COMBINATIONS THEREOF. COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass.
Filed April 13, 1945. Serial No. 482,093. PUBLISHED AUGUST 21, 1945. Class 39.

417,891. LADIES' SHOES MADE FROM LEATHER, FABRIC, RUBBER, PLASTICS, OR COMBINATIONS THEREOF. ANDREW GELLER SHOE MANUFACTURING CO. INC., Brooklyn, N. Y.
Filed April 13, 1945. Serial No. 482,101. PUBLISHED SEPTEMBER 4 1945. Class 39.



417,892. COLOGNE. IRENE BLAKE COSMETICS, INC., also doing business as Irene Blake, New York, N. Y.
Filed April 14, 1945. Serial No. 482,133. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,893. SHOE POLISH, SHOE DRESSING, AND SHOE WAXES. OLD DUTCH INDUSTRIAL PRODUCTS CO., INC., Harrison, N. J.
Filed Apr. 14, 1945. Serial No. 482,176. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,894. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,281. PUBLISHED AUGUST 28, 1945. Class 6.

417,895. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,282. PUBLISHED AUGUST 28, 1945. Class 6.

417,896. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,283. PUBLISHED AUGUST 28, 1945. Class 6.

417,897. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,284. PUBLISHED AUGUST 28, 1945. Class 6.

417,898. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,285. PUBLISHED AUGUST 28, 1945. Class 6.

417,899. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,286. PUBLISHED AUGUST 28, 1945. Class 6.

417,900. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,287. PUBLISHED AUGUST 28, 1945. Class 6.

417,901. DYES AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 18, 1945. Serial No. 482,288. PUBLISHED AUGUST 28, 1945. Class 6.

417,902. TOILET SOAPS. PARA TI CORPORATION, New York, N. Y.
Filed April 18, 1945. Serial No. 482,296. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,903. MOTOR LUBRICATING OIL. GOLDSMITH BROS., New York, N. Y.
Filed April 19, 1945. Serial No. 482,323. PUBLISHED SEPTEMBER 4, 1945. Class 15.

417,904. SOAP. ZONED SOAP COMPANY, INCORPORATED, Fort Wayne, Ind.
Filed April 19, 1945. Serial No. 482,358. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,905. METAL PROTECTIVE PAINTS. DETROIT GRAPHITE COMPANY, Detroit, Mich.
Filed April 23, 1945. Serial No. 482,470. PUBLISHED SEPTEMBER 11, 1945. Class 16.

417,906. COATS, VESTS, PANTS, AND OVERCOATS FOR MEN AND BOYS. FASHION PARK, INC., Rochester, N. Y.
Filed April 23, 1945. Serial No. 482,476. PUBLISHED JULY 10, 1945. Class 39.

417,907. COATS, VESTS, PANTS, AND OVERCOATS FOR MEN AND BOYS. FASHION PARK, INC., Rochester, N. Y.
Filed April 23, 1945. Serial No. 482,477. PUBLISHED JULY 10, 1945. Class 39.

417,908. FRESH VEGETABLES. SOUTHWEST FARMS, Phoenix, Ariz.
Filed April 25, 1945. Serial No. 482,594. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,909. YARN MADE OF NYLON AND WOOL AND COMBINATIONS THEREOF. SPINNERIN YARN CO., INC., New York, N. Y.
Filed April 26, 1945. Serial No. 482,654. PUBLISHED SEPTEMBER 4, 1945. Class 43.

417,910. BELT DRESSING. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed May 1, 1945. Serial No. 482,838. PUBLISHED AUGUST 28, 1945. Class 4.

417,911. LIGHT-SENSITIVE DRY GRANULATED PHOTOGRAPHIC EMULSION. DEFENDER PHOTO SUPPLY CO., INC., Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware.
Filed May 3, 1945. Serial No. 482,924. PUBLISHED AUGUST 28, 1945. Class 6.

417,912. SMOKING PIPES—NAMELY, FOR PIPES MADE OF BRIAR WOOD. ROYALE BRIAR PIPE CO., New York, N. Y.
Filed May 3, 1945. Serial No. 482,953. PUBLISHED SEPTEMBER 11, 1945. Class 8.

417,913. MEN'S AND LADIES' SUITS, SLACKS, OVERCOATS, AND SPORT COATS. GARLAND E. FOWLER, Albuquerque, N. Mex.
Filed May 4, 1945. Serial No. 482,984. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,914. PECAN CANDIES. DALLAS CANDY CO., Dallas, Tex.
Filed May 7, 1945. Serial No. 483,054. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,915. DOUCHE POWDERS AND SOLUTIONS FOR DOUCHING THE FEMALE ORGANS. HAROLD P. HAGEMEYER, doing business as Odessa Products, Chicago, Ill.
Filed May 7, 1945. Serial No. 483,057. PUBLISHED AUGUST 28, 1945. Class 6.

417,916. PAINT-LIKE COATING COMPOUND FOR WOOD AND METAL SURFACES OF ALL KINDS. ARTHUR TIEDEMANN, Kimberly, Wis.
Filed May 10, 1945. Serial No. 483,193. PUBLISHED SEPTEMBER 11, 1945. Class 16.

417,917. STEEL BARS, BILLETS, AND FORGINGS. LATROBE ELECTRIC STEEL COMPANY, Latrobe, Pa.
Filed May 11, 1945. Serial No. 483,226. PUBLISHED SEPTEMBER 4, 1945. Class 14.

417,918. STEEL BARS, BILLETS, AND FORGINGS. LATROBE ELECTRIC STEEL COMPANY, Latrobe, Pa.
Filed May 11, 1945. Serial No. 483,227. PUBLISHED SEPTEMBER 4, 1945. Class 14.

417,919. CERAMIC CIGARETTE BOXES, ASH TRAYS, HUMIDORS, AND CIGAR CASES. JABESON CHINA CO. INC., New York, N. Y.
Filed May 12, 1945. Serial No. 483,269. PUBLISHED SEPTEMBER 11, 1945. Class 8.

417,920. VITAMIN PREPARATION IN THE NATURE OF A FOOD SUPPLEMENT CONTAINING THIAMIN AND CALCIUM PANTOTHENATE. CARL A. FUTTER, doing business as the Carlay Co., Chicago, Ill.
Filed May 14, 1945. Serial No. 483,312. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,921. GENERAL HOUSEHOLD CLEANER. THE MORTON S. PINE CO., Cleveland, Ohio.
Filed May 14, 1945. Serial No. 483,339. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,922. COOLING AND INVIGORATING LOTION TO BE APPLIED FREELY AFTER THE BATH. S. S. PIERCE CO., Boston, Mass.
Filed May 15, 1945. Serial No. 483,383. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,923. LENSES FOR EYEGLASSES, GOGGLES, AND SPECTACLES AND EYEGLASS, GOGGLE, AND SPECTACLE FRAMES AND PARTS THEREFOR OF METAL, SHELL, AND VARIOUS PLASTIC COMPOSITIONS. AMERICAN ZYLOPTIC COMPANY, New York, N. Y.
Filed May 16, 1945. Serial No. 483,417. PUBLISHED SEPTEMBER 11, 1945. Class 26.

417,924. HORMONE PREPARATION IN TABLET FORM, A SOLUTION OF WHICH IS USED TO SPRAY VEGETABLES AND PLANTS TO POLLINATE AND SET BLOOMS. WM. T. THOMPSON, doing business as Wm. T. Thompson Co., Los Angeles, Calif.
Filed May 16, 1945. Serial No. 483,460. PUBLISHED AUGUST 28, 1945. Class 6.

417,925. CLEANING PREPARATIONS PUT UP IN POWDER, GRANULATED, LIQUID, SEMI-LIQUID, OR PASTE FORM. OAKITE PRODUCTS, INC., New York, N. Y.
Filed May 18, 1945. Serial No. 483,548. PUBLISHED SEPTEMBER 11, 1945. Class 4.

417,926. GREETING CARDS. QUALITY ART NOVELTY CO., INC., Long Island City, N. Y.
Filed May 19, 1945. Serial No. 483,582. PUBLISHED SEPTEMBER 4, 1945. Class 38.

417,927. GREETING CARDS. QUALITY ART NOVELTY CO., INC., Long Island City, N. Y.
Filed May 19, 1945. Serial No. 483,584. PUBLISHED SEPTEMBER 4, 1945. Class 38.

417,928. VITAMIN PRODUCTS. U. S. VITAMIN CORPORATION, New York, N. Y.
Filed May 19, 1945. Serial No. 483,595. PUBLISHED AUGUST 28, 1945. Class 6.

417,929. MOUTH WASH. BRUNSWIG DRUG COMPANY, also doing business as Angelus Laboratories, Los Angeles, Calif.
Filed May 22, 1945. Serial No. 483,649. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,930. CLOCKS. WALTER KOCHER, New York, N. Y.
Filed May 22, 1945. Serial No. 483,656. PUBLISHED SEPTEMBER 11, 1945. Class 27.

417,931. MAGAZINE PUBLISHED MONTHLY PARTICULARLY DEVOTED TO THE MERCHANDISING OF APPLICANT'S BAKERY PRODUCTS. SPAULDING BAKERIES, INC., Binghamton, N. Y.
Filed May 23, 1945. Serial No. 483,699. PUBLISHED SEPTEMBER 4, 1945. Class 38.

417,932. GIRLS' KNIT UNDERWEAR. MINNEAPOLIS KNITTING WORKS, Minneapolis, Minn.
Filed May 24, 1945. Serial No. 483,732. PUBLISHED SEPTEMBER 4, 1945. Class 39.

417,933. HEMOSTATIC PREPARATIONS. HERMAN BERGER, doing business as Standard Pharmaceutical Co., New York, N. Y.
Filed May 25, 1945. Serial No. 483,758. PUBLISHED AUGUST 28, 1945. Class 6.

417,934. AFTER-SHAVING LOTION, COLOGNE, AND SHAMPOO. BOSTON DRUG & CHEMICAL CO., doing business as Prince Toiletries, Boston, Mass.
Filed May 25, 1945. Serial No. 483,761. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,935. WATCHES AND PARTS THEREOF. INTERATLANTIC TRADING CORP., New York, N. Y.
Filed May 26, 1945. Serial No. 483,824. PUBLISHED SEPTEMBER 11, 1945. Class 27.

417,936. WATCHES AND PARTS THEREOF. INTERATLANTIC TRADING CORP., New York, N. Y.
Filed May 26, 1945. Serial No. 483,825 PUBLISHED SEPTEMBER 11, 1945. Class 27.

417,937. ANALGESIC, ANTIBACTERIAL, AND ANTISEPTIC PREPARATION FOR BOTH INTERNAL AND EXTERNAL USE. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed May 26, 1945. Serial No. 483,832. PUBLISHED SEPTEMBER 4, 1945. Class 6.

417,938. BRACELETS, NOT INCLUDING WATCHES. THE GRUEN WATCH COMPANY, Cincinnati, Ohio.
Filed May 28, 1945. Serial No. 483,856. PUBLISHED SEPTEMBER 11, 1945. Class 28.

417,939. JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES. ALBERT ADLER, Philadelphia, Pa.
Filed May 30, 1945. Serial No. 483,948. PUBLISHED SEPTEMBER 11, 1945. Class 28.

417,940. PERIODICAL MAGAZINE ISSUED MONTHLY DEVOTED LARGELY TO EASTERN PHILOSOPHY AND ALLIED SUBJECTS IN ANCIENT CIVILIZATIONS AND MODERN TIMES. THE GOLDEN LOTUS PRESS, Philadelphia, Pa.
Filed May 30, 1945. Serial No. 483,971. PUBLISHED SEPTEMBER 11, 1945. Class 38.

417,941. WHEAT FLOUR. THE MORRISON MILLING CO., Denton, Tex.
Filed June 1, 1945. Serial No. 484,057. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,942. AGRICULTURAL PARASITICIDES. STAUFFER CHEMICAL COMPANY, San Francisco, Calif.
Filed June 6, 1945. Serial No. 484,219. PUBLISHED AUGUST 28, 1945. Class 6.

417,943. SHORTENING IN SOLID FORM AND OF VEGETABLE ORIGIN FOR USE IN COOKING AND BAKING, AS IN THE PREPARATION OF CAKE ICINGS. CURT MICHAELIS, New York, N. Y.
Filed June 7, 1945. Serial No. 484,265. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,944. PUBLICATION—NAMELY, A NEWS-REPORTING LETTER REGULARLY PUBLISHED, GENERALLY WEEKLY. THE CURTIS PUBLISHING COMPANY, Philadelphia, Pa.
Filed June 11, 1945. Serial No. 484,394. PUBLISHED SEPTEMBER 11, 1945. Class 38.

417,945. SERIES OF CARTOONS OR CARTOON STRIPS, PUBLISHED IN NEWSPAPERS. THE NEWSPAPER PM, INC., New York, N. Y.
Filed June 11, 1945. Serial No. 484,421. PUBLISHED SEPTEMBER 11, 1945. Class 38.

417,946. PICKLES. ARCHIE POMPEO, doing business as Evergreen Food Products, Seattle, Wash.
Filed June 11, 1945. Serial No. 484,423. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,947. POWDERED MODIFIED MILK FOR SPECIAL DIETARY USES CONTAINING THE FOLLOWING SPRAY-DRIED SUBSTANCES: MILK, SKIM MILK, DRIED BREWERS' YEAST, ETC. THE BORDEN COMPANY, New York, N. Y.
Filed June 15, 1945. Serial No. 484,555. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,948. COMBINATION TELESCOPE AND SPECTACLE. CHARLES J. GLASSER, Chicago, Ill.
Filed June 20, 1945. Serial No. 484,781. PUBLISHED SEPTEMBER 4, 1945. Class 26.

417,949. OLIVE OIL. ITALIAN COOK OIL CORP., Brooklyn, N. Y.
Filed June 23, 1945. Serial No. 484,956. PUBLISHED SEPTEMBER 4, 1945. Class 46.

417,950. GLASS BOTTLES. THATCHER MANUFACTURING COMPANY, Elmira, N. Y.
Filed June 27, 1945. Serial No. 485,107. PUBLISHED SEPTEMBER 4, 1945. Class 33.

417,951. PREPARED FLOUR MIX. GENERAL MILLS, INC., Minneapolis, Minn.
Filed June 29, 1945. Serial No. 485,210. PUBLISHED SEPTEMBER 11, 1945. Class 46.



417,952. PREPARED FLOUR MIX. GENERAL MILLS, INC., Minneapolis, Minn.
Filed June 29, 1945. Serial No. 485,211. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,953. PREPARED FLOUR MIX. GENERAL MILLS, INC., Minneapolis, Minn.
Filed June 29, 1945. Serial No. 485,212. PUBLISHED SEPTEMBER 11, 1945. Class 46.

417,954. FISHING LINES. CORTLAND LINE COMPANY, INC., Cortland, N. Y.
Filed June 30, 1945. Serial No. 485,266. PUBLISHED SEPTEMBER 11, 1945. Class 22.

417,955. THREAD COATED WITH CELLULOSIC MATERIAL AND USED IN PACKAGING, WEAVING, AND FOR OTHER PURPOSES. FREYDBERG BROS.-STRAUSS, INC., Stamford, Conn., and New York, N. Y.
Filed June 30, 1945. Serial No. 485,274. PUBLISHED AUGUST 28, 1945. Class 43.

417,956. MATTRESSES AND BOX SPRINGS. SPRING-AIR COMPANY, Holland, Mich.
Filed July 9, 1945. Serial No. 485,611. PUBLISHED SEPTEMBER 11, 1945. Class 32.

417,957. GARDEN HOSE. STANDARD OIL COMPANY, Louisville, Ky.
Filed July 10, 1945. Serial No. 485,664. PUBLISHED SEPTEMBER 11, 1945. Class 35.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

417,958. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLICATION CORPORATION, New York, N. Y. Filed Nov. 30, 1942. Serial No. 457,142.

PICTURE COLLECTORS CLUB

FOR PRINTED REPRODUCTIONS OF PHOTOGRAPHS, LITHOGRAPHS, WOODCUTS, ETCHINGS, ENGRAVINGS, DRAWINGS AND PAINTINGS.
Claims use since Oct. 30, 1942.

417,959. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MINE AND SMELTER SUPPLY COMPANY, Denver, Colo. Filed July 1, 1943. Serial No. 461,801.

MARCY

FOR BALL AND ROD MILLS.
Claims use since 1914.

417,960. (CLASS 39. CLOTHING.) F. W. BRYANT, doing business as The F. W. Bryant Company, Hanover, N. J. Filed Aug. 3, 1943. Serial No. 462,469.

V-nek

FOR OUTER GARMENTS—NAMELY, SHIRTS AND JACKETS.
Claims use since June 16, 1943.

417,961. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE IRISH LINEN TRADE MARK ASSOCIATION LIMITED, Belfast, Ireland. Filed Aug. 5, 1944. Serial No. 472,979.

IRISH LINEN
IT'S LOVELY IT LASTS

The drawing is lined to indicate the colors green and blue.
FOR LINEN PIECE GOODS; TABLECLOTHS, NAPKINS AND TOWELS MADE OF LINEN DAMASK, AND LINEN; PILLOW CASES AND BED SHEETS MADE OF LINEN.
Claims use since May, 1939.

417,962. (CLASS 38. PRINTS AND PUBLICATIONS.) FOOD TRADE JOURNALS, INC., New York, N. Y. Filed Aug. 26, 1944. Serial No. 473,641.

CANDY INDUSTRY
THE NEWSPAPER OF CONFECTIONERY BUSINESS

FOR NEWSPAPER COVERING THE CONFECTIONERY BUSINESS, ISSUED PERIODICALLY.
Claims use since Aug. 19, 1944.

417,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MEADTEX FABRICS CO., New York, N. Y. Filed Sept. 9, 1944. Serial No. 474,038.

MEADFAST

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since Aug. 18, 1944.

417,964. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLOOMSBURG MILLS, INC., New York, N. Y. Filed Sept. 12, 1944. Serial No. 474,108.

Patricia Jones

FOR TEXTILE FABRICS OF RAYON, SILK, OR COMBINATIONS THEREOF.
Claims use since Aug. 21, 1944.

417,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRRESISTIBLE, INC., New York, N. Y. Filed Sept. 23, 1944. Serial No. 474,544.

UPSWEEP

FOR HAIR DRESSING.
Claims use since Aug. 28, 1944.

417,966. (CLASS 39. CLOTHING.) PACKARD DRESSES INC., New York, N. Y. Filed Sept. 23, 1944. Serial No. 474,549.




The drawing is lined for the colors red and pink.
FOR LADIES' AND MISSES' DRESSES, AND DRESS ENSEMBLES CONSISTING OF A DRESS AND JACKET.
Claims use since Aug. 21, 1944.

417,967. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Oct. 6, 1944. Serial No. 475,025.

INFALLIBLE

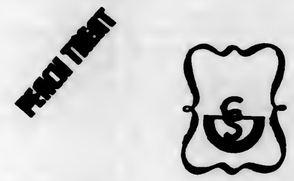
FOR DRAPERIES AND CURTAINS.
Claims use since Sept. 16, 1944.

417,968. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Oct. 6 1944. Serial No. 475,028.

MOROCCO

FOR DRAPERIES AND CURTAINS.
Claims use since Sept. 16, 1944.

417,969. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CASE-SWAYNE COMPANY, Merced, Calif. Filed Oct. 10, 1944. Serial No. 475,145.




FOR PREPARED FRUIT PRODUCTS—NAMELY, CANNED PEACHES.
Claims use since Sept. 26, 1944.

417,970. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. L. STIFEL & SONS, INC., Wheeling, W. Va. Filed Oct. 10, 1944. Serial No. 475,171.

MENLO

FOR DRAPERIES AND CURTAINS.
Claims use since Oct. 2, 1944.

417,971. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESLEY SIMPSON, INC., New York, N. Y. Filed Oct. 12, 1944. Serial No. 475,280.

VERITRUE

FOR PIECE GOODS OF RAYON, COTTON AND WOOL, OR COMBINATIONS THEREOF.
Claims use since August 1944.

417,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARGARET BURNHAM'S, INC., Oakland, Calif. Filed Oct. 13, 1944. Serial No. 475,294.




Applicant is the owner of Reg. No. 226,988.
FOR CANDY.
Claims use since Sept. 13, 1944.



417,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAGUIRE INDUSTRIES, INCORPORATED, New York, N. Y. Filed Oct. 19, 1944. Serial No. 475,503.

Maguire
BRAND

FOR DEHYDRATED AND COMPRESSED CABBAGE.
Claims use since Oct. 1, 1944.

417,974. (CLASS 39. CLOTHING.) DAVID D. DONIGER & Co. INC., New York, N. Y. Filed Nov. 2, 1944. Serial No. 476,018.

Mc Gregor
Shirt Suits

FOR COMBINATION SETS OF SHIRTS AND SLACKS FOR MEN'S AND BOYS' WEAR.
Claims use since August 1944.

417,975. (CLASS 39. CLOTHING.) WHITE SWAN UNIFORMS, INC., Yonkers and New York, N. Y. Filed Dec. 11, 1944. Serial No. 477,446.

PEBBLEGRAIN
UNIFORMS

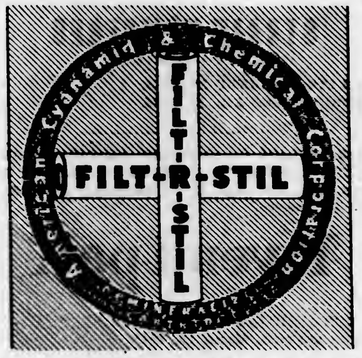
FOR NURSES' UNIFORMS.
Claims use since June 1940.

417,976. (CLASS 32. FURNITURE AND UPHOLSTERY.) ESTEE BEDDING COMPANY, Chicago, Ill. Filed Dec. 19, 1944. Serial No. 477,735.

ESTEE

FOR MATTRESSES, BOX SPRINGS, BED SPRINGS, UPHOLSTERED FURNITURE—NAMELY, STUDIO COUCHES, LOVE SEATS AND CHAIRS; SOFA BEDS; CHAIR BEDS; LOVE SEAT BEDS; AND PILLOWS.
Claims use since Feb. 1, 1925.

417,977. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 5, 1945. Serial No. 479,408.




The lining on the drawing is used to denote shading.
FOR APPARATUS COMPOSED OF CONTAINERS, WITH PIPING AND CONTROL VALVES AND A CARRYING OR SUPPORTING RACK, FOR USE IN THE DEMINERALIZATION OF WATER AND OTHER LIQUIDS AND GASES, THROUGH THE MEDIUM OF SYNTHETIC RESINS, EITHER CATION OR ANION ACTIVE, HAVING BASE EXCHANGE OR ION EXCHANGE CHARACTERISTIC, FOR USE IN INDUSTRIAL AND OTHER ESTABLISHMENTS.
Claims use since Aug. 20, 1943.

417,978. (CLASS 39. CLOTHING.) W. R. DARLING CO., Los Angeles, Calif. Filed Apr. 9, 1945. Serial No. 481,883.

CALIFORNIA DARLING'S

FOR LADIES' SPORT CLOTHING—NAMELY, DRESSES, SLACK SUITS, PLAY SUITS, SHORTS, BRASSIÈRES, BADMINTON SUITS, AND BLOUSES.
Claims use since December 1941.

417,979. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WINDSOR WAX CO., INC., Hoboken, N. J. Filed May 2, 1945. Serial No. 482,910.

Windsor

FOR GLASS CLEANER, UPHOLSTERY AND RUG CLEANER, AND FLOOR CLEANER.
Claims use since 1923.

417,980. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE HARRISON STEEL CASTINGS CO., Attica, Ind. Filed May 16, 1945. Serial No. 483,425.

McCARTY

FOR RERAILERS.
Claims use since 1932.

417,981. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BLISS & LAUGHLIN, INCORPORATED, Harvey, Ill. Filed June 23, 1945. Serial No. 484,931.

**STRAIN-TEMPERED**

FOR COLD-WORKED STEELS.
Claims use since Aug. 15, 1944.

417,982. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CLEARITE PRODUCTS, INC., New York, N. Y. Filed June 25, 1945. Serial No. 485,006.

**Twenti-paK**

FOR PLASTIC CIGARETTE CASES.
Claims use since March 13, 1944.

417,983. (CLASS 39. CLOTHING.) HYMAN H. STUTMAN, Brighton, Mass. Filed July 23, 1945. Serial No. 486,175.

**LESLIE GREY**

FOR LADIES' AND MISSES' DRESSES.
Claims use since Feb. 7, 1944.

417,984. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS AND POCKETBOOKS.) BUXTON, INCORPORATED, Springfield, Mass. Filed Sept. 6, 1945. Serial No. 488,015.

*Buxton*

FOR KEY CASES, PURSES, BILLFOLDS, POCKET CASES, POCKETBOOKS, CARD AND PASS CASES.
Claims use since 1931.

## TRADE-MARK REGISTRATIONS RENEWED

46,365. **"JERSEY" ETC. AND DRAWING.** ROASTED COFFEE. Registered Sept. 12, 1905. THE DAYTON SPICE MILLS COMPANY, Dayton, Ohio, a corporation of Ohio. Re-renewed Sept. 12, 1945. Class 46.

46,366. **OLD VIRGINIA AND DRAWING.** BAKING-POWDER. Registered Sept. 12, 1905. THE DAYTON SPICE MILLS COMPANY, Dayton, Ohio, a corporation of Ohio. Re-renewed Sept. 12, 1945. Class 46.

48,682. **PEPULE.** MEDICINAL PREPARATIONS OF PANCREAS, THYROID, AND STOMACH GLANDS AND OTHER "ANIMAL EXTRACTS" (OR EXTRACTS OF ANIMAL ORGANS) DISPENSED IN THE FORM OF TABLETS, DISKS, AND PILLS. Registered Jan. 9, 1906. FAIRCHILD BROTHERS AND FOSTER, New York, N. Y., a corporation of New York. Re-renewed Jan. 9, 1946. Class 6.

172,710. **DIXOR.** PERFUMES, EXTRACTS, TOILET WATER, RICE POWDERS, TOOTH POWDER, TOILET CREAM, AND FACE LOTIONS. Registered Sept. 11, 1923. M. SCHOEPFER. Renewed Sept. 11, 1943, to Dixor, Societe A Responsabilite Limitee, Paris, France, a corporation of France. Class 6.

194,894. **V T S CO.** MEDICINE FOR THE TREATMENT OF RHEUMATISM AND STOMACH TROUBLE. Registered Feb. 10, 1925. WILLIAM HOLLINGSWORTH, doing business as Vigor Tone Sales Company. Renewed Feb. 10, 1945, to Clyde A. Boaz, Fort Worth, Tex. Class 6.

198,852. **PHYTO-PUROS.** LINIMENT USED IN THE TREATMENT OF NEURALGIA, LAME BACK, SCIATICA, SPRAINS, GRIPPE, TONSILLITIS, SORE THROAT, CAKED BREAST, NERVOUS AND SICK HEADACHE, SUNSTROKE, CHOLERA MORBUS, COLIC, BITES OF SNAKES AND INSECTS, BURNS, SCALDS, BOILS, CARBUNCLES, FEVER SORES, OLD ULCERS, BONE DISEASES, AND ALL ACHES AND PAINS. Registered May 26, 1925. MASTIN L. WILLIAMS, doing business as Phuton Remedy Co. Renewed May 26, 1945, to C. A. Bliss, Arkansas City, Kans. Class 6.

199,014. **CLIX.** COMBINED PLUG AND SOCKET MADE OF METAL FOR USE IN ELECTRICAL WORK AS A CONTACT OR TERMINAL. Registered June 2, 1925. AUTOVEYORS LIMITED, Westminster, England. Renewed June 2, 1945, to British Mechanical Productions Limited, Surrey, England, an incorporated company of the United Kingdom of Great Britain. Class 21.

202,909. **"ALLSTEEL" AND DESIGN.** AUTOMOBILE BODIES. Registered Sept. 8, 1925. EDWARD G. BUDD MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 8, 1945. Class 19.

203,967. **"MONIDA" AND DRAWING.** WHEAT FLOUR. Registered Sept. 29, 1925. THE POCATELLO FLOUR MILLS COMPANY, Pocatello, Idaho. Renewed Sept. 29, 1945, to The Colorado Milling & Elevator Company, Denver, Colo., a corporation of Colorado. Class 46.

207,643. **FIESTA.** COFFEE, TEA, SPICES, AND FOOD-FLAVORING EXTRACTS. Registered Jan. 5, 1926. JOANNES CORPORATION. Renewed Jan. 5, 1946, to Ben-Hur Products, Inc., Los Angeles, Calif., a corporation of Delaware. Class 46.

208,105. **I. E. R.** VEGETABLE COMPOUND USED AS A REMEDY FOR THE TREATMENT OF ECZEMA. Registered Jan. 19, 1926. JAMES C. BOURLAND, Houston, Tex. Renewed Jan. 19, 1946. Class 6.

208,234. **"OLD ESSEX" AND DRAWING.** MALT BEVERAGE. Registered Jan. 19, 1926. GOTTFRIED KRUEGER BREWING CO. Renewed Jan. 19, 1946, to G. Krueger Brewing Company, Newark, N. J., a corporation of Delaware. Class 48.

208,246. **"DDCO" IN A MONOGRAM.** SODIUM BICARBONATE, POWDERED BORIC ACID, FLAXSEED MEAL, WHOLE FLAXSEED, MOTH BALLS, SULPHUR, EPSOM SALTS, CREAM TARTAR, LUMP AMMONIUM ALUM, POWDERED AMMONIUM ALUM, BLUE STONE, PREPARED CHALK, OXALIC ACID, POTASSIUM PERMANGANATE, ROCHELLE SALT, SALTPETER; BEEF, WINE AND IRON; PURE CASTOR OIL, COMPOUND LICORICE POWDER, SALICYLIC ACID, COPPERAS, SENNA LEAVES, BALSAM CAPAIBA, TINCTURE ASAFETIDA, TINCTURE IRON, TOOTHACHE DROPS, AROMATIC SPIRITS AMMONIA, OIL CITRONELLA, GLYCERIN, PAREGORIC, ESSENCE OF PEPPERMINT, CARBOLIC ACID, SPIRIT NITER, WITCH-HAZEL, QUININE SULPHATE, AND OTHER CERTAIN NAMED MEDICINAL PRODUCTS. Registered Jan. 19, 1926. DURR DRUG COMPANY, Montgomery, Ala., a corporation of Alabama. Renewed Jan. 19, 1946. Class 6.

# REISSUES

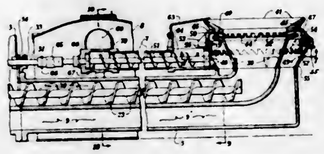
NOVEMBER 20, 1945

**22,693**
**PREFABRICATED STRUCTURE FOR CONTAINERS AND THE LIKE**
**Harvey B. Lindsay, Evanston, Ill., assignor to Lindsay & Lindsay, Chicago, Ill., a partnership**
**Original No. 2,364,083, dated December 5, 1944, Serial No. 489,888, June 7, 1943. Application for reissue February 10, 1945, Serial No. 577,251**
**14 Claims. (Cl. 189—34)**



1. A composite structure comprising a panel and a cooperating connected member, said connected member having a groove formed with two opposed side walls, the side wall of the groove farthest from the intended position of the panel having an overhanging shoulder therealong defining with the opposed wall a relatively wide opening for said groove and said panel being provided with two acute-angled flanges formed along its margin transversely of said panel, and having wedge-fitting engagement in said groove by the initial insertion of the apex of said flanges and the subsequent engagement of, the free edge of the outer flange beneath said shoulder by expanding tension of said flanges.

**22,694**
**AUTOMATIC STOKER**
**Ireal A. Winter, Birmingham, Ala.**
**Original No. 2,341,252, dated February 8, 1944, Serial No. 386,153, March 31, 1941. Application for reissue January 22, 1945, Serial No. 573,960**
**20 Claims. (Cl. 110—45)**



1. An underfeed stoker comprising a stationary upwardly flaring conical retort member, a rotatable annular hearth member supported above and concentric with said retort, means for forcing fuel upwardly through said retort and hearth member, a pressure air chamber surrounding said retort, said annular hearth member having tuyère passages in the underside thereof for discharging air from said pressure air chamber radially into the fuel bed and having a conical upper surface sloping outwardly and upwardly from the upper end of said stationary retort for supporting an annular fuel and ash bed of sufficient depth to confine the flow of air entering through said tuyères to the central portion of the fuel bed within the hearth and retort, and means for rotating the hearth member.

# PLANT PATENTS

GRANTED NOVEMBER 20, 1945

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

**661**
**PEACH TREE**
**Walter E. Lammerts, West Los Angeles, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California**
**Application January 17, 1945, Serial No. 573,263**
**1 Claim. (Cl. 47—62)**

A new and distinct variety of peach tree, characterized as to novelty by the reduction in winter chilling requirement in comparison with Rio Oso Gem variety under comparable conditions, with resultant ability to produce a crop each year under unfavorable conditions of warm winter temperature; early leafing and flowering season; earlier ripening period compared to its parent variety; distinct form and crispness of leaves; color of the fruit and uniformity and smoothness of fruit and stone, substantially as shown and described.

# PATENTS

GRANTED NOVEMBER 20, 1945

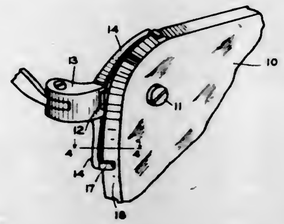
**2,389,115**
**ELECTRICAL CONNECTOR**
**Andreas Andersen, Wellesley Hills, Mass.**
**Application October 18, 1943, Serial No. 506,701**
**8 Claims. (Cl. 287—76)**



7. A universal connector comprising a body portion having provision for connection to a cable provided at one end with two opposed and spaced fingers projecting beyond the body portion, that part of the body portion in the rear of the fingers being shaped to correspond to the adjacent faces of the projecting portions of the fingers for a distance at least equal to the length of the fingers and being of a thickness substantially equal to the distance between the projecting portions of the fingers whereby to permit the fingers of an identical connector to straddle such part of the body portion in tightly fitting and sliding engagement for the full length of the fingers to thereby provide an efficient electrical connection.

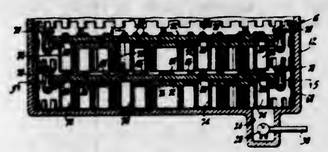
---

**2,389,116**
**OPHTHALMIC MOUNTING**
**Joseph W. Aspenleiter, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application January 13, 1944, Serial No. 518,083**
**3 Claims. (Cl. 88—47)**



1. In an ophthalmic mounting, a lens; a strap having a face adapted to engage the rear surface of said lens; a screw passed through an opening in said lens and threaded into an opening formed in said strap for securing the lens to said strap with the rear surface of the lens engaging the face of the strap; resilient arms extending outwardly on opposite sides of said strap; lens engaging portions carried by the free ends of said arms, said arms normally urging said portions into engagement with the rear face of said lens at spaced areas adjacent the edge thereof to produce an axial thrust by the strap on the threads of said screw to prevent accidental rotation thereof; and pads carried by said portions and engaging the edge face of said lens to restrain pivotal movement of said lens relative to said screw.

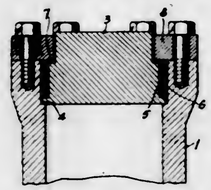
**2,389,117**
**RETORT FOR PACKAGED FOOD**
**Duryea Bensel, Los Angeles, Calif., assignor to Bensel-Brice Corporation, Los Angeles, Calif., a corporation of California**
**Application November 4, 1940, Serial No. 364,125**
**3 Claims. (Cl. 99—359)**



1. In an apparatus for sterilizing and preserving packaged food, a multiple package retort comprising an open ended casing, internal walls in said casing adapted to fit and closely confine a package received in said casing, a rim plate punched to receive the open end of said casing, a cover plate adapted to engage the top of a package received in said casing and to engage said rim plate, and means for hermetically sealing said cover plate on said rim plate.

---

**2,389,118**
**PRESSURE VESSEL CLOSURE**
**Howard A. Buchner, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York**
**Application April 21, 1943, Serial No. 483,914**
**2 Claims. (Cl. 220—46)**

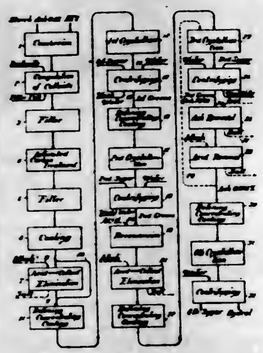


1. A pressure vessel closure comprising a cylindrical vessel shell having an internal shoulder spaced from its end, a removable end head loosely fitting in the end of said shell and resting upon said shoulder to limit the inward movement of said head, a retaining ring overhanging said head and removably secured to said vessel shell at its outer end, a compressible cylindrical gasket encircling the head and extending axially between an axially outwardly facing shoulder of said head and the axially facing inner surface of said retaining ring, said gasket having a radial clearance between it and the inner wall of the shell to provide for radial expansion of the gasket under axial compression, and said head and the overhanging portion of said retaining ring having an axial clearance therebetween to provide for limited outward movement of the head under internal fluid pressure in the vessel and consequent endwise compression of said gasket to expand the same radially against the wall of the shell and seal the closure without wedging action.





**2,389,119**
**PROCESS FOR THE PRODUCTION OF DEXTROSE**
**Sidney M. Canter, Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey**
**Application March 24, 1941, Serial No. 384,812**
**9 Claims. (Cl. 127—40)**



3. In the production of high purity crystalline dextrose from a starch converted dextrose solution the treatment of the solution (1) with a coagulant of colloidal matter followed by the removal of such matter, said coagulant consisting essentially of bentonite; (2) with an acid absorbent resin to eliminate acid; (3) with an organic base removing resin to bring about substitution of an acid for the salt in the solution; and (4) with an acid absorbent resin.

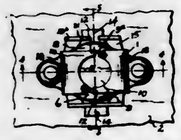
---

**2,389,120**
**TEXTILE AND PROCESS OF MAKING SAME**
**Carl A. Castellan, Wilmington, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application December 8, 1943, Serial No. 513,335**
**18 Claims. (Cl. 28—73)**



1. A process of making a fabric comprising the steps of making at least two types of activatable yarns comprising a mixture of potentially adhesive filaments with non-adhesive filaments, the potentially adhesive filaments of one type of said yarns being activatable under conditions which do not activate the other type, weaving a fabric comprising filling and warp yarn systems using one type of said yarns for one of the yarn systems and the other type for the other yarn system, shrinking the fabric in each of the directions of its two yarn systems in succession, and stabilizing the fabric structure by rendering the potentially adhesive filaments in each of the two yarn systems tacky in succession to effect adhesion between filaments in the fabric and thereafter rendering the tacky filaments non-tacky.

**2,389,121**
**SHIFTABLE COWL FASTENER DEVICE**
**Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application January 6, 1943, Serial No. 471,398**
**7 Claims. (Cl. 24—221)**



1. In combination, a female fastener member designed to receive a rotary stud element having lateral projections, said member including a base having bearing extensions and a central outwardly dished apertured seat to receive and be engaged by the lateral projections of said stud element, and means for shiftably attaching said fastener member to an apertured support, said means comprising an attaching member having longitudinally spaced fastening portions for connection to the support, upstanding flanges formed on the marginal side portions of said attaching member intermediate said fastening portions, said flanges providing opposed apertured retainer portions disposed in planes parallel to a plane passed through said fastening portions and loosely receiving said bearing extensions and at least one of said retainer portions having a slotted portion leading into its aperture whereby one of said extensions may be inserted into the aperture through said slotted portion.

---

**2,389,122**
**TENSION NUT DEVICE**
**Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application June 5, 1943, Serial No. 489,847**
**9 Claims. (Cl. 151—33)**



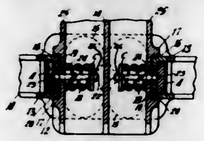
1. A tension nut for screw-threaded fastenings comprising a nut portion having a head and internally threaded barrel connected at one end to said head at substantially right angles thereto, a support-engaging rim surrounding said head in spaced relation thereto and disposed in a plane intersecting said barrel between the head and free open end thereof, and resilient means connecting said head and rim permitting displacement of the barrel relative to said rim upon tightening of the screw-threaded fastening therein.

---

**2,389,123**
**RAILWAY CAR TRUCK**
**George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application April 28, 1944, Serial No. 533,153**
**3 Claims. (Cl. 105—197)**

1. In a railway car truck, the combination with a truck side frame having vertically disposed, laterally spaced guide walls; of a truck bolster having side walls, said bolster being interposed between said guide walls, with the side walls thereof in sliding engagement with the outer faces of said

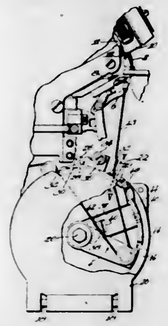
guide walls; truck springs supporting said bolster on the side frame; a friction plate in sliding engagement with each guide wall and bearing on the inner face thereof; a stem fixed to said plate and projecting therefrom into the bolster and ex-



tending through the corresponding guide wall and the side wall of the bolster; a follower anchored to the outer end of the stem; and a spring surrounding said stem and bearing at the opposite ends respectively on said follower and the inner side of said side wall of the bolster.

---

**2,389,124**
**THREAD CONTROLLING DEVICE FOR SEWING MACHINES**
**Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application April 4, 1944, Serial No. 529,465**
**10 Claims. (Cl. 112—59)**

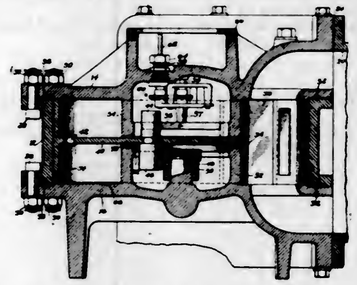


1. A sewing machine having a hook needle, a looper for laying the thread in the needle hook and a take-up, in combination with means acting on the needle thread between the take-up and the looper to cause tension to be imparted to the thread while the thread is being laid in the needle hook and to relieve the tension on the thread after the thread is laid in the needle hook until the hook of the needle has drawn the thread into the work.

---

**2,389,125**
**FLUID METER**
**Raymond H. Barge, Mineola, N. Y., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 28, 1942, Serial No. 456,464**
**7 Claims. (Cl. 121—68)**

1. A meter of the oscillating piston type comprising a generally cylindrical measuring chamber, said chamber having top and bottom heads and having inlet and outlet ports with a division plate therebetween, the bottom head of said chamber having a bottom head hub within said chamber, a piston having a generally cylindrical side wall with a web extending thereacross, and a thrust bearing ring received by and acting as the top edge of the bottom head hub, said ring

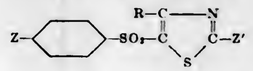


being of unctuous material slidably engaged by the bottom of the web and supporting the piston in spaced relation to the bottom head with a running clearance.

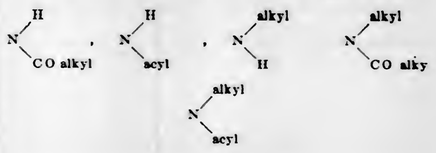
---

**2,389,126**
**THERAPEUTICALLY USEFUL SULPHONES AND THEIR PREPARATION**
**Louis L. Bambas, Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan**
**No Drawing. Application June 13, 1944, Serial No. 540,135**
**9 Claims. (Cl. 260—239.6)**

1. A compound having the formula



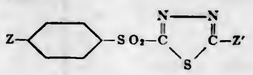
where R is a member of the class consisting of hydrogen and alkyl and Z and Z' are members of the class consisting of $NO_2$, $NH_2$,



---

**2,389,127**
**SULPHONES AND PROCESS OF PREPARING SAME**
**Louis L. Bambas, Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan**
**No Drawing. Application June 13, 1944, Serial No. 540,136**
**6 Claims. (Cl. 260—239.6)**

1. In a process for preparing a sulphone having the formula



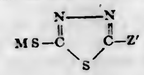
where Z and Z' are members of the class consisting of $NO_2$, $NH_2$ and groups hydrolyzable to



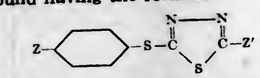
$NH_2$, the step which comprises reacting a compound of the formula



with a compound of the formula



where M is a member of the class consisting of hydrogen and an alkali metal thereby obtaining a compound having the formula

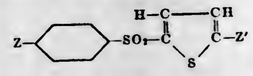


and oxidizing the latter with a reagent capable of converting the sulphide into a sulphone.

---

**2,389,128**
**SULPHONES AND METHOD OF PREPARING SAME**
**Louis L. Bambas, Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan**
**No Drawing. Original application December 13, 1941, Serial No. 422,904. Divided and this application June 13, 1944, Serial No. 540,139**
**6 Claims. (Cl. 260—239.6)**

1. A sulphone having the formula



where Z and Z' are each a member of the class consisting of $—NO_2$, $—NH_2$ and groups hydrolyzable to $—NH_2$.

---

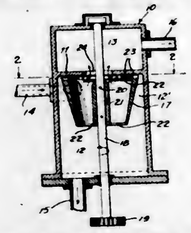
**2,389,129**
**UNIVERSAL SCREW DRIVER**
**Joseph H. Bishop, Dayton, Ohio**
**Application September 3, 1943, Serial No. 501,090**
**1 Claim. (Cl. 145—50)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



A screw driver of the class described comprising a bit, the effective screw engaging portion of said bit comprising a plurality of ribs extending radially from the driver axis and terminating in a flat transverse end edge, said ribs having flat sides, the sides of each rib converging toward said end edge, the adjacent sides of the adjacent ribs meeting angularly in sharply defined lines of juncture extending to the end edges of said ribs, the side edges of said ribs having a conical taper, the tapered side edges of said ribs converging toward the end edges of said ribs.

---

**2,389,130**
**SEPARATOR**
**John Blizard, Garden City, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York**
**Application October 23, 1942, Serial No. 463,042**
**5 Claims. (Cl. 183—77)**



1. Apparatus for the separation of substances of different specific gravities comprising a housing having a substantially circular chamber with upper and lower ends and outlet openings in the upper and lower portions thereof, a separating member within the chamber and spaced from the side wall thereof to provide a substantially annular inlet portion for the chamber, the separating member having a tubular portion with an inlet at the end thereof nearest the lower end of the housing and an outlet at the end thereof nearest the upper end of said housing, said outlet extending adjacent the periphery of the inner wall of the chamber and adjacent the central portion of said member, the inlet of the member and the outlet thereof adjacent the periphery of the inner wall of the chamber being in communication with the chamber and the outlet adjacent the central portion of the member being in communication with the chamber outlet opening, the inner wall of the separating member having an approximately circular transverse cross-sectional configuration, said inner wall flaring outwardly from the inlet to the outlet end of the member, means for rotating the separating member about its longitudinal axis, and a conduit having its discharge end connected with the annular inlet portion of the chamber between the opposite ends of the separating member and adjacent the outlet end of the member.

---

**2,389,131**
**ELECTRODEPOSITION OF ANTIMONY**
**Mortimer C. Bloom, Newton Highlands, Mass.**
**No Drawing. Application July 28, 1941, Serial No. 404,384**
**9 Claims. (Cl. 204—45)**

1. In a process for electroplating antimony, the step which comprises electrodepositing antimony from an aqueous solution comprising essentially antimony trifluoride and an ammonium fluoride, the pH of the solution being less than about 6 and below the precipitation point of antimony oxide from the solution.

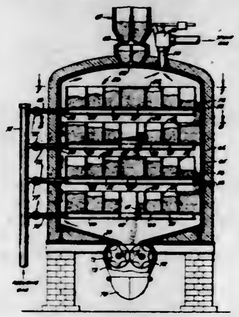
9. As an article of manufacture, a conductive corrodible base having a surface of superficial irregularity and adhering to said surface a ductile, malleable corrosion-resistant coating of fine-grained electrodeposited metallic antimony, substantially devoid of pores, which coating, when in a thickness of about 0.0015" and subjected to a salt spray bath conforming to the specifications of the test bath outlined in A. S. T. M. Tentative Standard B-39T, will stand up under this test for a period of 120 hours.

2,389,132
**METHOD OF ATTACHING ELECTRICAL CONDUCTORS TO GLIDER TOW ROPES**
Elmer H. Borgelt, Dayton, Ohio
Application June 7, 1944, Serial No. 539,170
4 Claims. (Cl. 244—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



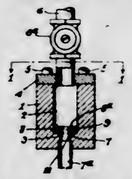
1. In combination an elongatable tow rope, a conductor separate from and exterior of said tow rope and of a length approximately equal to that of said tow rope at maximum elongation, a plurality of slings immovably fixed to said tow rope equi-distantly throughout its length and positive anchoring connections between said slings and said conductor, said conductor being permanently disposed and permanently maintained in a plurality of shallow loops below said tow rope and between said slings, each loop having a length approximately equal to that of the corresponding tow rope section at maximum elongation.

2,389,133
**APPARATUS FOR REDUCTION OF METALLIC MATERIAL**
Herman A. Brassert, Washington, and Charles F. Ramseyer, Old Greenwich, Conn., assignors to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois
Application April 6, 1943, Serial No. 481,968
4 Claims. (Cl. 23—277)



1. In apparatus for reducing finely-divided metallic material, the combination of a housing, a horizontal hearth therein having a multiplicity of substantially uniformly distributed, pressure-reducing gas apertures therethrough, said apertures being less than one-quarter inch in diameter, partition means on said hearth to provide a long path for travel of material along said hearth, a casing forming a gas chamber beneath said hearth communicating with said apertures, a pipe leading from the exterior of said housing into said chamber for supplying preheated gas under pressure thereto, means on said hearth overlying said apertures for diverting the gas issuing from said apertures laterally in all directions to fluidize said material without propelling said material along said hearth and to prevent said material from entering said apertures by gravity, means extending into said housing and disposed adjacent one end of said hearth for feeding said finely-divided material upon the hearth for reduction by the gas emerging from said apertures, and means in said housing for discharging said reduced material from said hearth, said discharging means having an outlet at a lower level than the level of the material at said one end of the hearth whereby said fluidized material moves along said hearth by gravity flow.

2,389,134
**FLOW CONTROL VALVE**
Clyde A. Brown, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application July 5, 1943, Serial No. 493,530
4 Claims. (Cl. 138—45)



1. A fluid control device comprising a casing having a passageway extending therethrough, a shoulder in said passageway facing the upstream side thereof and extending radially inwardly from the side wall thereof, an elastic member seated on said shoulder and extending substantially into engagement with said side wall, said member having an orifice therethrough in a region of said member spaced inwardly of the inner edge of said shoulder to provide for flexing of the central portion of said member in a downstream direction upon flow of fluid through said orifice and whereby the opening in said member forming said orifice is enlarged on the downstream side and decreased in area on the upstream side.

2,389,135
**ELECTRODEPOSITION OF METALS**
Henry Brown, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application February 21, 1941, Serial No. 379,950
17 Claims. (Cl. 204—45)

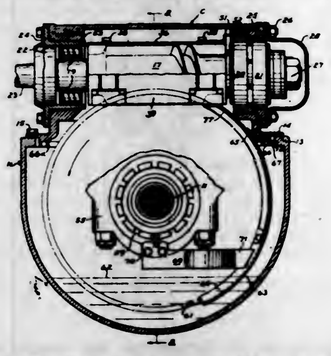
2. In a process for electrodepositing metals, the step which comprises electrolyzing an aqueous acid solution of a salt of the metal to be deposited and a minor proportion of a soluble sulpho-fatty acid ester of a mixture of alcohols containing predominantly from 12 to 14 carbon atoms, the sulpho-fatty acid radical containing from 2 to 4 carbon atoms, the metal to be deposited being selected from the group consisting of nickel, cobalt, iron, zinc, cadmium, copper, and antimony.

2,389,136
**MIXED ESTERS CONTAINING THE DIHYDRONORDICYCLOPENTADIENE RING SYSTEM**
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application June 4, 1943, Serial No. 489,696
12 Claims. (Cl. 260—475)

6. As a new compound, a mixed ester of a dicarboxylic acid wherein one of the ester groups is a dihydronordicyclopentadienyl group and the other ester group is from a monohydric alcohol other than a hydroxydihydronorpolycyclopentadiene, said dihydronordicyclopentadienyl group being formed from dicyclopentadiene by an addition-rearrangement reaction occurring in the presence of an acidic condensing agent.

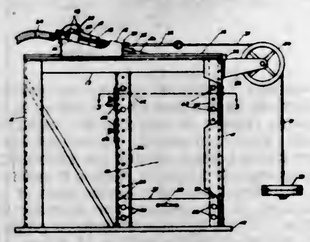


2,389,137
**DRIVE AXLE**
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application November 4, 1942, Serial No. 464,489
14 Claims. (Cl. 184—11)



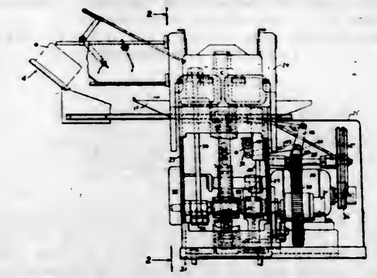
1. In a worm drive axle, a housing adapted to contain a body of lubricant; a carrier secured to said housing and including bearing supports disposed within said housing; a differential mechanism mounted for rotation in said bearings carried by said bearing supports and having a worm gear adapted to dip into said lubricant; a worm journalled in said carrier and meshing with said worm gear, said carrier having a pair of web-like members disposed in spaced relationship to the sides of said worm; and means including a worm shroud device supported on said members in operative relationship to said worm operable to direct lubricant centrifugally thrown by said worm gear to said worm.

2,389,138
**PNEUMATIC HAMMER TESTING MACHINE**
Hugo V. Cordiano, Joseph J. De Paolo, and Hyman Lacks, New York, N. Y.
Application May 11, 1945, Serial No. 593,176
4 Claims. (Cl. 73—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



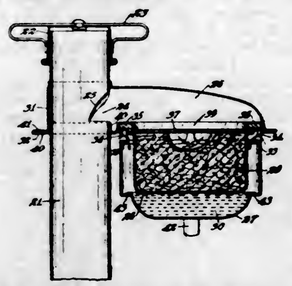
1. A machine for testing pneumatic hammers comprising a guideway, means adapted to hold a test plate in fixed relationship with said guideway, means slidably retained by said guideway for holding a pneumatic hammer in fixed angular relationship with said guideway, means for applying a constant feed pressure to said pneumatic hammer holding means, and cutting means slidably retained by said guideway and adapted to receive impact forces at an angle not parallel to said guideway and to transmit said forces in a direction parallel to said guideway.

2,389,139
**SQUARE PLUG FLANGER**
Edward V. Crane and Frederick G. Auer, Brooklyn, N. Y., assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application February 1, 1943, Serial No. 474,262
15 Claims. (Cl. 153—25)



1. In a flanging machine comprising a frame, a cradle mechanism for feeding cans to the flanging station proper, gripping jaws in said flanging station for clamping said cans for the flanging action and flanging members for bending back the can edges to an angle with the can body, in combination a central lever pivotally mounted to said frame, means for reciprocating said lever, a T-shaped toggle lever linked at one of its pivot points to said central lever a link member, said T-shaped toggle lever being connected at its other pivot point to said link member, both said T-shaped toggle lever and said link being capable of connecting said central lever and said gripping jaws for moving the latter into and out of clamping engagement with a can to be flanged.

2,389,140
**AIR CLEANER EQUIPPED FILLER TUBE**
John C. Enblom, Minneapolis, Minn.
Application October 23, 1942, Serial No. 463,036
3 Claims. (Cl. 121—194)



1. In an internal combustion engine having a ventilated crank-case provided with a combined oil filler and breather tube, said tube being equipped with means for opening and closing its

upper end and being provided with an air cleaner communicating with a port in its intermediate portion; that improvement comprising a downwardly opening hood extending laterally from the intermediate portion of said tube and internally communicating with the interior of said tube through said port, said air cleaner depending from said hood in laterally offset relation to said tube and internally communicating with said tube through said hood and port, and an inwardly and downwardly directed deflecting flange within said tube overlying said port.

---

**2,389,141**
**PISTON RING**
**Carl F. Engelhardt, Yeadon, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware**
**Application May 19, 1942, Serial No. 443,601**
**4 Claims. (Cl. 309—45)**



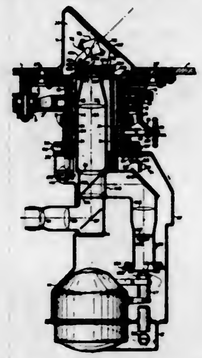
1. A piston-ring formed of ribbon-like sheet metal or the like comprising interlaced annular axially-corrugated portions, each having successive plane segments disposed alternately in axially-separated radial planes and plane interconnecting portions formed integrally with said segments and at obtuse angles thereto, said segments having straight-line edges formed as radii of the piston ring, said interconnecting portions having a smaller radial dimension than said segments, the segments of the respective annular portions being circumferentially displaced and staggered in alternate juxtaposition to provide axially-separated more or less continuous annular cylinder-contacting ribs, the interconnecting portions of the respective annular portions being radially substantially separated from each other when said axially-separated ribs have their cylinder-contacting edges axially aligned, whereby said interconnecting portions of the respective annular portions are capable of free radial movement.

---

**2,389,142**
**GYRO-STABILIZED SEXTANT**
**Orland E. Esval, Merrick, and Walter Wrigley, Hempstead, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application September 26, 1941, Serial No. 412,398**
**7 Claims. (Cl. 88—2.2)**

1. In a sextant having an optical system including a combining mirror through which distant objects may be viewed, a gyroscope having a casing, a gimbal ring supporting the gyroscope and casing, a tubular member, means for maintaining the member parallel with the spin axis of the gyroscope, comprising means for supporting the member for rotation about two intersecting axes, a connection between the member and a pivot of the gimbal ring for turning the member about one of the axes, a connection pivoted to the member and to the gyroscope casing for turning the member about the other of the axes, means for illuminating the interior of the member disposed substantially at the intersection of the axes, a reticle disposed within the member illuminated by said means, optical means for projecting rays of light from said reticle onto said mirror to serve as a stabilized reference for the distant objects viewed through the optical system.

6. A sextant comprising a vertical telescope tube mounted for rotation about its longitudinal axis and having an optical system including a transparent mirror through which celestial objects may be viewed, a rotary screen provided with an indicating device adapted to be set in predetermined relation to an axis of a supporting



craft, means for projecting an image of the screen onto the transparent mirror whereby the indicating device may be observed with the objects viewed through the optical system, gear means coupling the screen and telescope tube for maintaining the screen in predetermined position irrespective of the rotary movement of the telescope tube whereby the indicating device serves as a reference from which the extent of the rotation of the tube may be observed while viewing celestial objects.

---

**2,389,143**
**SEXTANT**
**Orland E. Esval, Huntington, and Walter Wrigley, East Hempstead, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application June 11, 1942, Serial No. 446,660**
**2 Claims. (Cl. 88—2.3)**



1. A sextant having a spherically-shaped reticle calibrated in degrees of altitude, a frame on which said reticle is universally mounted for movement about mutually perpendicular, normally horizontal, axes, means for stabilizing said universally mounted reticle, means movable about an axis coincident with one of the axes of universal mounting of the reticle for viewing the object whose altitude is to be measured along a line of sight, means movable with said object viewing means for viewing said reticle along a line parallel to the line of sight of said object viewing means, and means for combining an image of said reticle with the image of the sighted object.

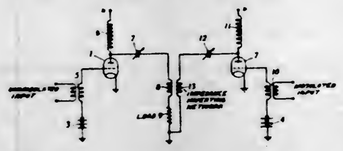


**2,389,144**
**SEPARATION OF HYDROCARBONS**
**Theodore W. Evans, Oakland, and Rupert C. Morris, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application October 19, 1942, Serial No. 462,623**
**8 Claims. (Cl. 183—115)**

5. In a process for the separation of an olefinic hydrocarbon from a hydrocarbon mixture containing it and a more saturated hydrocarbon having the same number of carbon atoms per molecule as said olefinic hydrocarbon, the steps of contacting said mixture with a normally liquid anhydride of a saturated aliphatic carboxylic acid, and separating the undissolved portion of the mixture from the liquid solution containing said first-mentioned olefinic hydrocarbon.

---

**2,389,145**
**THERMIONIC VALVE APPARATUS**
**Richard Lewis Fortescue, London S. W. 12, England, assignor to Standard Telephones and Cables Limited, London, England, a British company, and Marconi's Wireless Telegraph Company Limited, London, England, a British company**
**Application October 12, 1938, Serial No. 234,535**
**In Great Britain October 23, 1937**
**19 Claims. (Cl. 179—171.5)**

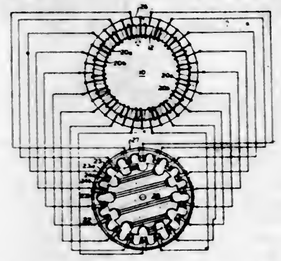


1. A system for delivering modulated carrier-wave power to a load, which comprises a first and a second discharge tube each having a cathode, a grid and an anode, means for supplying continuous potential to said anodes, connections for delivering power from the anodes of both of said tubes to said load, an impedance inverting network connected between the anode of one of said tubes and said load so as to present to the anode of said first discharge tube an impedance whose value decreases with increasing power output from said second discharge tube, means for applying to the grids of said tubes driving oscillations displaced substantially 90° in phase and both said driving oscillations including a component of carrier frequency and only one of said driving oscillations including a component of side-band frequency.

---

**2,389,146**
**FLUX VALVE**
**Caesar F. Fragola, Brooklyn, Marlin C. Depp, Hempstead, and Robert S. Curry, Jr., Baldwin, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application January 19, 1943, Serial No. 472,913**
**13 Claims. (Cl. 177—351)**

1. A flux valve comprising a pair of cores each arranged in the form of similar closed frames and disposed in substantially parallel relation, means for exciting said cores with oppositely circulating fluxes of sufficient amplitude to produce varying permeability in each of said cores, and a plurality of pick-up coils, each surrounding both of said cores, whereby the voltages produced in said pick-up coils will correspond to the direction

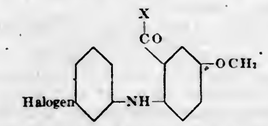


of an external magnetic field with respect to the sides of said core.

---

**2,389,147**
**4' METHOXY 5 HALOGENO DIPHENYLAMINO 2' CARBOXYL COMPOUND AND PROCESS FOR PRODUCING THE SAME**
**Ernst A. H. Friedheim, New York, N. Y., and Ernst Bergmann, Rehovoth, Palestine**
**No Drawing. Application November 20, 1943, Serial No. 511,110**
**7 Claims. (Cl. 260—519)**

7. A new compound corresponding to the formula




wherein X is a radical selected from the group consisting of -OH, halogen, -O-alkyl and amino radicals.

---

**2,389,148**
**ARCH SUPPORTER SHOE**
**Wolfe Grebow, Baltimore, Md.**
**Application September 28, 1943, Serial No. 504,141**
**2 Claims. (Cl. 36—8.5)**



1. In combination with a shoe, a bolster attached to the inner sole of the shoe and extending from one side thereof up angularly along the internal surface of the side wall of the shoe, inside of the shoe, a strap attached to said wall, and means on the strap within the shoe for adjusting its length to change the angular position of the bolster in the shoe, and a heel on the shoe formed with an enlarged corner projection disposed on the side of the shoe opposite to that at which the strap is attached, to the wall of the shoe arranged in position to coordinate with the adjustment of the strap to support the foot of the user in a predetermined position in the shoe.

**2,389,149**
**ANCHOR FOR GROUND SUPPORTS**
**John B. Hyde, Great Neck, N. Y.**
**Application September 5, 1942, Serial No. 457,469**
**1 Claim. (Cl. 189—29)**



An anchoring device arranged to be driven into the ground or the like comprising two substantially S-shaped sections provided at their central portions with mating, oppositely extending bends forming a central socket, said members being crossed at a single point adjacent said central socket and arranged in side by side abutting relation adjacent the socket at a point diametrically opposite said point of crossing, each of said sections forming a pair of curved arms arranged diagonally with relation to each other and the arms of the two sections providing a propeller-like formation.

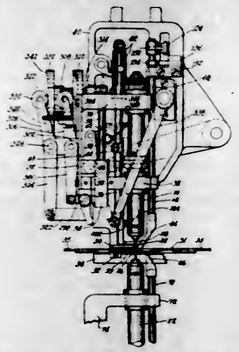
---

**2,389,150**
**ALDEHYDE CONDENSATION PRODUCTS AND PROCESSES OF PRODUCING THE SAME**
**David W. Jayne, Jr., Old Greenwich, and Harold M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application February 28, 1941, Serial No. 381,140**
**10 Claims. (Cl. 260—38)**

5. A condensation product of an aldehyde with the solid substance obtained by heating at ordinary pressure under substantially anhydrous conditions 1 mol of a primary aromatic amine with about 2–3.2 mols of dicyandiamide at a temperature and for a time sufficient to liberate a substantial amount of ammonia.

---

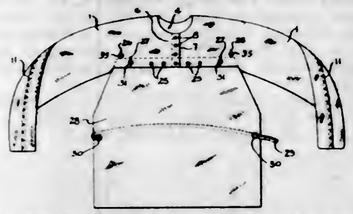
**2,389,151**
**SPECIAL STITCH SEWING MACHINE**
**Carl W. Johnson, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application November 29, 1940, Serial No. 367,690**
**31 Claims. (Cl. 112—171)**



1. In a sewing machine, the combination with a work support, of a threaded needle and opposed needle bars for projecting said needle back and forth through said work, a work feeding foot located at one side of said needle, means for moving said foot to feed work over said support, means positioned at another side of said needle for lifting and lowering a portion of the work adjacent said needle, mechanism for operating said last named means to alternately dispose that portion of the work next to be sewed obliquely up and down relative to said support, and means for moving said needle in a plane substantially at right angles to the plane of said support back and forth through said inclined material to pass said thread obliquely through said work.

---

**2,389,152**
**PROTECTION GARMENT**
**Nelson H. Keeler, Southbridge, and Herbert J. Eskelson, Charlton, Mass., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association**
**Application April 15, 1942, Serial No. 439,076**
**10 Claims. (Cl. 2—2)**



1. A device of the character described comprising integral arm, shoulder and chest portions formed of right and left pattern sections of similar contour shapes, said arm portions having longitudinal edge portions joined with each other along a seam having portions in overlapping relation and disposed in the rear of said arm portions, said shoulder portions each having a curved edge shaped to form a part of a neck opening and having integral parts extending outwardly to one side thereof having end portions disposed in overlapping relation with each other and having upper curved edges shaped to form a part of the neck opening, connecting means for detachably securing said overlapping end portions together with said portions constituting the chest portion of the device and a separate back portion having edges secured with similarly shaped edges of the shoulder portions along seams having portions in overlapping relation and disposed in the rear of said device and having an upper edge functioning cooperatively with the curved edge portions of the shoulder portion and chest portions to complete the neck opening when the parts are in assembled relation with each other.

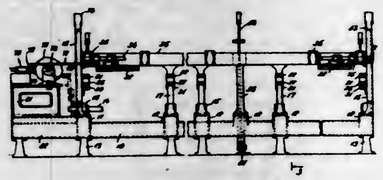
---

**2,389,153**
**MANUFACTURE OF TRITHIO ORTHO ESTERS OF CARBOXYLIC ACIDS**
**John David Kendall, Ilford, England, assignor to Ilford Limited, Ilford, England, a company of Great Britain**
**No Drawing. Application March 24, 1943, Serial No. 480,333. In Great Britain April 20, 1942**
**9 Claims. (Cl. 260—455)**

1. Process for the production of a trithio ortho ester of an organic carboxylic acid having an unsubstituted saturated hydrocarbon radical attached to the carbonyl group which comprises condensing a mono thio ester of the said acid with a mercaptan in the presence of a strong inorganic dehydrating agent.



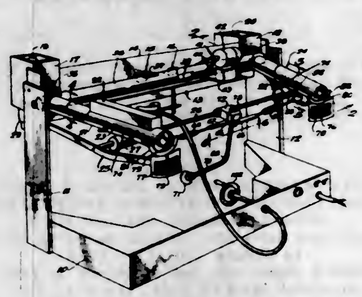
**2,389,154**
**KNITTING MACHINE**
**William D. Kellogg and John Fradenburgh, Amsterdam, N. Y., assignors to Aveco, Incorporated, a corporation of New York**
**Application June 30, 1943, Serial No. 492,806**
**16 Claims. (Cl. 66—86)**



1. In a warp knitting machine, the combination of an integral base extending the full length of the machine, supporting members mounted on the base and extending upwardly therefrom, knitting assemblies mounted on the members, and a cam shaft for driving all the knitting assemblies, the cam shaft being mounted directly on the base out of contact with the supporting members for the assemblies.

---

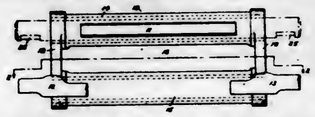
**2,389,155**
**OPTICAL DEVICE**
**John R. Kerry, Palatine, Ill., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application July 23, 1942, Serial No. 451,997**
**8 Claims. (Cl. 88—20)**



1. A device of the character described for use with a viewing screen, said device comprising means for producing test patterns for the respective eyes of an individual on said viewing screen, said test pattern means embodying means for producing area portions having fusible characteristics and embodying means for producing portions having dimensionally relatable characteristics within the fields of said area portions with the dimension of one of said relatable portions being variable relative to the dimension of the other of said portions, means for alternately rendering the test patterns separately visible to the respective eyes in successive sequence and at such speed as to provide continuity of vision, unitary means for altering the positional relation of said area portions and portions having dimensionally relatable characteristics both vertically and horizontally with respect to each other for positioning said area portions in fusible overlapping relation with each other and for simultaneously positioning the portions having dimensionally relatable characteristics in adjacent relation with each other and means for altering the dimension of one of said dimensionally relatable portions relative to the other.

---

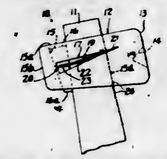
**2,389,156**
**TRACK SHOE**
**Harry A. Knox, Washington, D. C.**
**Application July 16, 1941, Serial No. 402,679**
**14 Claims. (Cl. 305—10)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



8. In a track for a track-laying vehicle, a track shoe, a relatively long cleat mounted on said shoe adjacent one edge thereof and extending transversely of the direction of travel of said shoe, and a pair of relatively short cleats mounted on said shoe adjacent the sides thereof and extending beyond the ends of the first-mentioned cleat, said pair of cleats being spaced from said first-mentioned cleat in the direction of travel of said shoe.

---

**2,389,157**
**LOOM PICKER AND JOINT STRUCTURE THEREFOR**
**Otto A. Kottemann, Greenville, S. C., assignor to William D. Dedenhoff, Greenville, S. C.**
**Application November 25, 1943, Serial No. 511,734**
**17 Claims. (Cl. 139—159)**



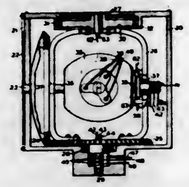
1. A device for a loom comprising a head having a portion provided with an opening for receiving a stick with said portion extending continuously around the stick, the head consisting of rigid material, means having an opening for receiving the stick, said means having its opening substantially alined with that on the head, said means having a spring portion, and an element in engagement with the spring portion to tension the head against the stick, said spring portion being connected to the head and movable angularly relative to the head and stick for urging the element against the stick.

---

**2,389,158**
**CONTROLLER FOR GYRO INSTRUMENTS**
**Arthur W. Lane, Freeport, and Robert S. Curry, Jr., Baldwin, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application July 18, 1942, Serial No. 451,442**
**14 Claims. (Cl. 74—5)**

1. A controller for a circuit by which electrical energy is supplied to both spin the rotor of a gyroscopic instrument and render effective an electrically responsive torque exerting means for the same comprising a relatively movable commutator having two oppositely disposed seg-

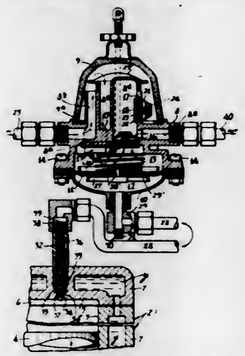
ments and a cooperative pair of brushes positioned to normally connect the segments electrically, energy being supplied by way of said com-



mutator segments to continuously spin the rotor and by way of said brushes to differentially control the torque exerting means.

---

2,389,159
**FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES**
**Wilfred W. Lowther, Minneapolis, Minn.**
**Application August 18, 1941, Serial No. 407,321**
**2 Claims. (Cl. 123—139)**

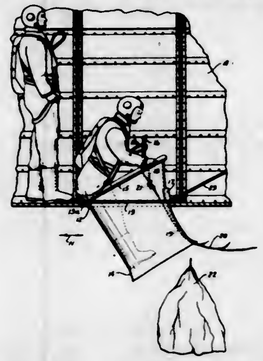


2. In a pumping mechanism operated by fluid pressure built up in the piston-equipped cylinder of a gas burning internal combustion engine having a cooled cylinder wall, said pumping mechanism having a conduit extending to the engine cylinder through said cooled wall thereof, and a normally open pressure closed valve controlling the flow through said conduit, said valve comprising a reciprocating valve element and a cooperating valve seat, said valve seat being located wholly within the confines of the cooled cylinder wall and being in direct heat exchange relationship therewith, said reciprocating valve element being yieldingly biased toward open position and being balanced to close under relatively low pressures built up in the engine cylinder during the compression strokes of the engine piston materially in advance of combustion.

---

2,389,160
**AIRPLANE TROOP LAUNCHING MEANS**
**Frank G. Manson and James J. Maskey, Dayton, Ohio**
**Application June 23, 1943, Serial No. 491,884**
**5 Claims. (Cl. 244—137)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

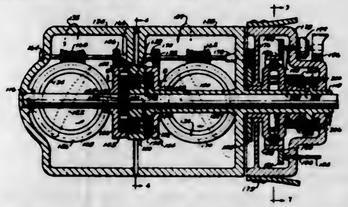
1. In airplane troop launching means of the class described, the combination with an airplane fuselage having a floor therein and an opening in the bottom thereof, of a rigid discharge tube of a diameter to permit passage of a person's body therethrough, and means for securing said tube in fixed relation to said fuselage with said tube extending downward through said opening and inclined rearwardly of the fuselage with its lower end extending below the fuselage and the forward portion of said lower end disposed rearwardly of the forward portion of the upper end of said tube and the forward portion of the lower end of the tube disposed below the rearward



portion of said lower end and with said upper end disposed within the interior of the fuselage and having the forward portion of the upper end of said tube disposed adjacent said floor and the rearward portion of said upper end disposed some distance above the floor, whereby said tube presents an entrance within the fuselage facing forwardly of the fuselage and the rearward portion of the upper end of said tube providing hand engaging means which may be grasped by the hand of a person to steady himself as he enters said tube for discharge therefrom.

---

2,389,161
**CONTROLLABLE PITCH CHANGE MECHANISM FOR DUAL ROTATION PROPELLERS**
**Howard M. McCoy, Fairfield, Ohio**
**Application September 11, 1942, Serial No. 458,039**
**14 Claims. (Cl. 170—135.6)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



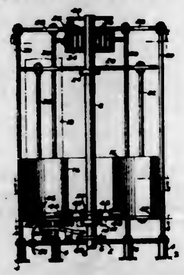
1. In a dual-rotation propeller mechanism having two adjacent concentric tandem contrarotating propeller hubs with a plurality of propeller blades in each hub having their roots rotatable in bearings in the hubs, mechanism for simultaneously rotating the roots to alter the pitch of the blades, said mechanism comprising a pair of axially spaced gears, one secured to each hub for unitary rotation therewith, a second pair



of axially spaced gears surrounding the first pair of gears, a pinion carrier between the two gears of the first said pair of gears, reversing pinion means on said carrier connecting the two gears of each pair of gears, whereby, when one gear of the first pair rotates opposite the other, the carrier will be held against free rotation, and when one gear of the second pair rotates in one direction, the other one of the pair will rotate oppositely, irrespective of the rotation of the first pair, a set of normally nonrotating pitch-changing gearing in each hub, each set including a gear on each root, said sets operatively connecting the axially spaced gears of the second pair to the blades of the propellers, whereby the pitch of both propellers is changed simultaneously, and means for rotating the pitch-changing gearing which includes a third pair of axially spaced gears, gearing connecting one of the gears of the third pair to one of the sets of normally non-rotative pitch-changing gearing, whereby said one gear of the third pair is rotated in rear propeller direction at propeller speed, reversing gearing connecting the other one of the gears of the third pair to the rear propeller hub, whereby the two gears of the third set rotate oppositely, a second pinion carrier intermediate the gears of the third pair, reversing pinion means on said carrier connecting the two spaced gears of the third pair whereby the oppositely rotating gears of the pair cause said second carrier to remain non-rotative, a power source, and gearing connecting said second carrier and said power source.

---

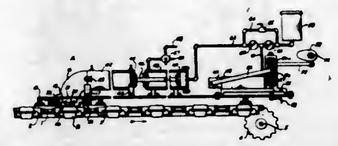
2,389,162
**MULTIPLE SIGNAL DISCHARGER**
**Colin McInnes, Jr., United States Army, Beaver, Pa.**
**Application August 21, 1942, Serial No. 455,588**
**3 Claims. (Cl. 89—1)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In a device for firing a plurality of signal cartridges, the combination of a rotatable holder for the said plurality of cartridges, cartridge firing means in underlying relation to one of the cartridges held in the said holder, spring means for turning the said holder, an index disc mounted to rotate with the said holder and having a plurality of circumferentially spaced holes equal to the number of cartridges of the said holder, and a lever pivotally mounted in association with the said firing means having a pin at the distal end of one of its arms adapted to be received in the said holes of the index disc, the said lever being spring-pressed to place its said pin in one of the said index holes to normally restrain the said spring means from turning the said holder, the distal end of the other arm of the lever being in close juxtaposition to said cartridge holder so that the flexion of the container holder upon recoil will turn the said lever to withdraw its pin from the index disc, the said spring means turning the said holder until the pin is spring-snapped in the succeeding index hole to bring the succeeding cartridge to the firing means.

---

2,389,163
**APPARATUS AND METHOD FOR FEEDING CLAY TO CAVITOUS JIGGER MOLDS**
**William J. Miller, Swissvale, and Albert J. Wahl, Pittsburgh, Pa., assignors, by direct and mesne assignments, to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application May 14, 1942, Serial No. 442,920**
**11 Claims. (Cl. 25—22)**



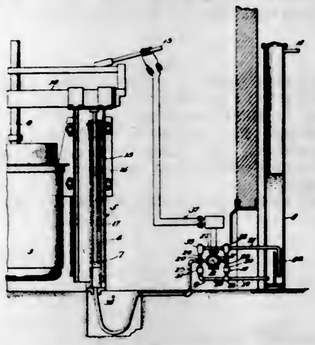
1. Apparatus for feeding clay charges to hollow ware molds, comprising in combination, conveying means for advancing hollow ware molds in single file along a path where clay is fed thereto, a nozzle thereabove, open top, cavitous pottery molds disposed thereon, the outlet end of which occupies a plane in close adjacency to the cavity inlet of the molds resting on the conveying means in order that material extruded therethrough may extrude directly into the molding cavity and into close adjacency to the floor of the cavity, a substantially horizontal cut off wire movable in the space between the top of the mold and the bottom of the nozzle for cutting through the projecting end of the stub close to and above the top of the mold to drop the charge in upright position on the floor of the molding cavity and fluid pressure means operable to rapidly extrude a predetermined amount of material inside the molding cavity when the cavity comes into a position of registration with the nozzle.

---

2,389,164
**MECHANISM FOR SUPPORTING AND AUTOMATICALLY ADJUSTING ARC FURNACE ELECTRODES**
**William Harvey Payne, Hinsdale, Ill.**
**Application September 11, 1944, Serial No. 553,538**
**10 Claims. (Cl. 314—61)**

1. An electric arc furnace comprising a vertically movable mounting, an electrode carried by the mounting and provided with current supplying means, vertically adjustable supporting means for the mounting in the form of cylinder and piston elements arranged for relative sliding movement to a limited extent in either direction, a source of liquid, a pipe system between said source and the cylinder element, a reversible rotary pump disposed in the system and adapted when driven in one direction to supply liquid from the source to the cylinder element and effect vertical shift of the mounting and electrode in one direction and when driven in the opposite direction to remove liquid from the cylinder element and effect vertical shift of said mounting and electrode in the opposite direction, means for driving the pump in either direction, controlled automatically in response to variations in the arcing gap of the electrode, and a valve

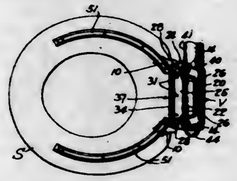
arrangement in the form of a check valve, and a pair of relief valves, associated with, and forming a part of, said pipe system and arranged and adapted when the pump is stopped to lock the



liquid in the cylinder element and when the pump is driven in one direction after relative sliding of the elements to their fullest extent to connect the pump so that it is capable of pumping liquid from and to the source.

---

**2,389,165**
**VENTILATED TOILET**
**Andrew P. Riedele, Los Angeles, Calif.**
**Application December 2, 1941, Serial No. 421,302**
**3 Claims. (Cl. 4—217)**

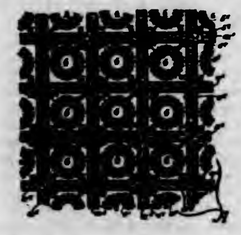


1. In a ventilated toilet, a bowl; a seat therefor; a ventilating adapter having an inlet disposed at the rear portion of the bowl to receive odors therefrom, and an outlet adapted for connection to a vent pipe; means for securing the adapter rigidly to the bowl; the adapter having threaded vertical bores; brackets screwed into said bores for vertical adjustment and having sleeves; bearing arms carried by said seat; and a pivot pin extending through said sleeves and bearing arms to mount the seat on the adapter for pivotal movement and for vertical adjustment relative to the bowl by rotation of the brackets when said pin is removed from the sleeves of said brackets.

---

**2,389,166**
**FLUE INSERT FOR REGENERATIVE FURNACES AND THE LIKE**
**Jay J. Seaver, Evanston, Ill.**
**Application January 20, 1942, Serial No. 427,504**
**4 Claims. (Cl. 263—51)**

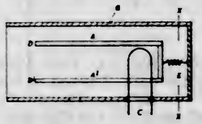
4. A circumferentially and longitudinally continuous tubular flue insert having longitudinal ribs on each of its interior and exterior surfaces respectively, said insert being open at each of its opposite ends and installed in a vertical flue coaxially therewith and with the exterior surface of said insert spaced inwardly from the internal surface of said flue to afford selective passage of high or low temperature gaseous fluids axially through the open center of the insert and



longitudinally about the exterior of said insert in contact with the internal and external surfaces of the insert and the interior surface of said flue for the purpose described.

---

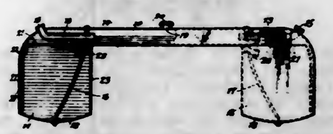
**2,389,167**
**LECHER WIRE SYSTEM**
**Charles Norman Smyth, London, England, assignor to International Standard Electric Corporation, New York, N. Y.**
**Application June 25, 1941, Serial No. 399,667**
**In Great Britain June 21, 1940**
**2 Claims. (Cl. 178—44)**



2. A lecher wire system comprising spaced parallel wires bridged at one end and coupled to a utilisation circuit at the other end, a tubular screen enclosing the wires said wires and screen having the characteristics of a coaxial line and a resistance adjusted to provide an impedance matching termination for said coaxial line connected between the bridged ends of the wires and an adjacent part of the screen.

---

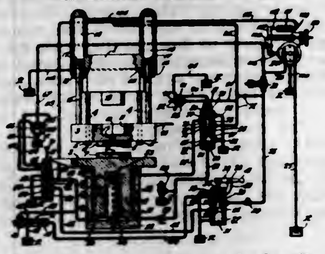
**2,389,168**
**MEANS FOR STORING LIQUID FUEL**
**Mahlon C. Snyder, Hamburg, N. Y.**
**Application July 3, 1944, Serial No. 543,281**
**8 Claims. (Cl. 137—21)**



1. Means for storing liquid fuel comprising a tank having a horizontal chamber provided in its upper part with a liquid inlet and a vent opening and a vertical side chamber communicating at its upper end with an end of said horizontal chamber and provided in its lower part with a liquid outlet, and a baffle having a horizontal section extending across the upper part of said side chamber and having one end connected with the inner wall thereof while its outer end is separated from the outer wall of the side chamber by a passage connecting said chambers.



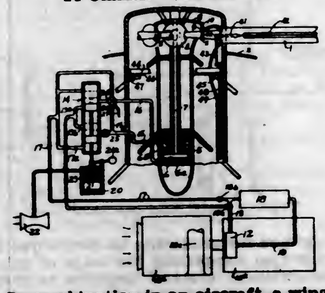
**2,389,169**
**HYDRAULIC MOTOR**
**Thomas F. Stacy, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio**
**Application May 20, 1942, Serial No. 443,767**
**15 Claims. (Cl. 18—30)**



8. Contralling means for a hydraulic motor of the type having a head, a platen movable toward and from the said head and urged yieldingly in a direction away from said head, and a ram connected to the platen for reciprocating it and having a piston portion with advancing and retracting chambers on opposite sides of said piston portion and with packing on said piston portion between said chambers, which comprises means selectively operable for delivering actuating fluid under pressure to said advancing chamber for causing an advance of said platen toward said head, for interrupting said connection and preventing escape of fluid from said advancing chamber to hold the platen in any position, and for releasing fluid from said advancing chamber to permit retraction of said platen, means for delivering fluid under pressure to said retraction chamber but operable normally for interrupting delivery of fluid under pressure to said retracting chamber and venting that chamber during said advancing movement after an initial advance while the pressure in said advancing chamber is below a selected pressure, and means automatically responsive to the fluid pressure in said advancing chamber for causing the delivery of actuating fluid under substantially the same pressure as that in said advancing chamber to said retracting chamber while the fluid pressure in said advancing chamber is above a selected pressure, after said initial advance.

---

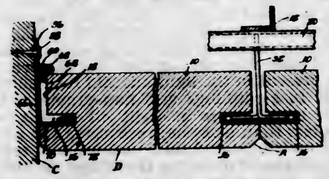
**2,389,170**
**ROTARY WING AIRCRAFT**
**Edward A. Stalker, Ann Arbor, Mich.**
**Application October 18, 1941, Serial No. 415,502**
**14 Claims. (Cl. 244—17)**



1. In combination in an aircraft, a wing, means to support the wing for rotation about an upright axis, means providing for the rotation of the wing about a spanwise axis to change its pitch angle, a device sensitive to substantially the horizontal speed of the aircraft, and means controlled by said device and responsive to an increase in said horizontal speed to decrease the mean pitch angle of the wing.

---

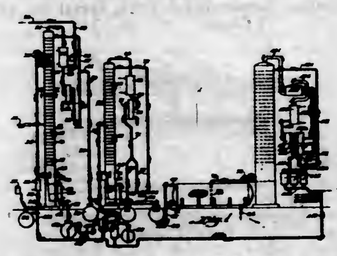
**2,389,171**
**MEANS FOR ASSEMBLING CONSTRUCTION UNITS**
**Leon F. Urbain, Chicago, Ill.**
**Original application October 18, 1939, Serial No. 299,926. Divided and this application October 12, 1942, Serial No. 461,706**
**7 Claims. (Cl. 72—118)**



4. In combination with a side wall and a ceiling, tile means adapted to cover the ceiling, said tile means including an outermost row of tiles, said tiles having kerfs in their side walls, a sheet metal connector mounted in the kerfs and having an upstanding tongue passing substantially parallel with the side wall of the tile rearwardly of the kerf, said tongue having its end bent laterally outwardly to form angles and being substantially resilient, and an interlocking member mounted upon the vertical wall of the structure and having a lower portion bent upon itself with the doubled walls spaced apart a distance substantially equal to the width of said resilient tongue, the outermost portion of said lower portion of said interlocking member being bent outwardly away from said double lower portion whereby said resilient tongue may be snapped into the opening formed by and between said folded portion of said interlocking member and whereby said outwardly bent portion of said interlocking member may lie between the adjacent wall and the confronting side wall of said tile.

---

**2,389,172**
**REFINING OF COKE-OVEN LIGHT OIL**
**Bernard J. C. van der Hoeven, Pittsburgh, Pa., and John Walker Unroe, Steubenville, Ohio, assignors, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware**
**Application February 13, 1941, Serial No. 378,746**
**5 Claims. (Cl. 202—40)**



1. In a process for the refining of crude light oil that is obtained from coke-oven gas, the steps

of: continuously flowing non-acid washed crude light oil aforesaid into a fractionating column; boiling said light oil therein and simultaneously treating evolved vapors with a reflux of fore-runnings' constituents of said light oil having a boiling point lower than benzene at a rate, by volume, at least about one and one-half times the rate, by volume, at which said crude light oil is flowed into said fractionating column and thereby separating said crude light oil into a plurality of fractions comprising a low-boiling fore-runnings fraction that is substantially free of benzene, another fraction containing some benzene and a relatively high concentration of non-aromatic light-oil constituents having boiling points lower than but more closely adjacent the boiling point of benzene than the constituents of the first said fraction, said other fraction having a specific gravity of from 0.79 to 0.83, and a distillation residuum containing at least substantially ninety-five per cent of the benzene originally present in the light oil, said residuum being free of fore-runnings and non-aromatic hydrocarbon constituents of light oil having boiling points less than benzene; recovering the plurality of said fractions; and acid-washing said residuum and fractionally distilling therefrom without substantial production of lower boiling intermediates, about ninety per cent of the total originally contained benzene of said light oil as a product having a solidifying point of at least 4.85° C.

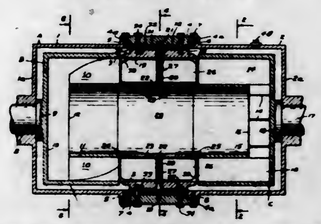
---

**2,389,173**
**RECOVERY OF GLYCEROL FROM FERMENTED LIQUORS**
**Robert Alan Walmesley, Howwood, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain**
**No Drawing. Application August 27, 1942, Serial No. 456,423. In Great Britain June 9, 1941**
**1 Claim. (Cl. 260—637)**

A method for the recovery of glycerol from carbohydrate fermentation still residues which comprises the steps of concentrating the still residue until it contains not more than about 40% water by evaporation with water at raised temperature, mixing with said concentrate at a temperature between 40° and 80° C. and at which it is still fluid a quantity of an alkaline earth material sufficient to form a cream containing an undissolved excess of metal hydroxide, admixing with said cream while still fluid a water miscible alcohol in quantity sufficient to form a 7–15% solution of glycerol, and separating said alcoholic solution from the residue.

---

**2,389,174**
**POWER TRANSMITTING UNIT**
**Perry V. Whitworth, El Cerrito, Calif.**
**Application September 2, 1942, Serial No. 457,105**
**1 Claim. (Cl. 60—54)**



In combination, a housing filled with fluid, a centrally disposed tube extending substantially from end to end of the housing and having an unobstructed interior, a fluid moving member disposed at one end of the housing for moving fluid between the tube and housing, a fluid driven member disposed at the other end of the housing and having vanes acted upon by the moving fluid when the fluid is rotated in one direction or the other, and control vanes placed between the fluid moving member and the driven member for causing the fluid to flow parallel with the vanes of the driven member or to be rotated in one direction or the other against the vanes, said tube and housing having flat surfaces for contacting with the outer and inner edges of the control vanes, the outer corners of the vanes being rounded to permit a swinging of the control vanes into positions where their outer sides will extend beyond the flat surfaces on the housing, the tube returning the fluid from the driven to the drive member through its unobstructed interior.

---

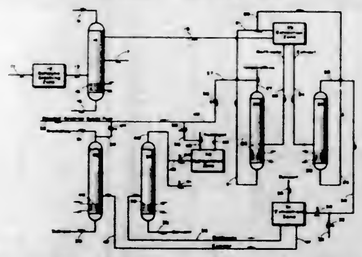
**2,389,175**
**METHOD OF MAKING HEAT EXCHANGE APPARATUS**
**John E. Woods, Brookline, Mass., assignor to Clifford Manufacturing Co., Boston, Mass., a corporation of Delaware**
**Application October 7, 1942, Serial No. 461,109**
**4 Claims. (Cl. 113—112)**




1. In the manufacture of heat exchange apparatus comprising a plurality of closely spaced thin-wall metal tubes mounted in headers having unflanged tube receiving openings, the method of bonding the tubes to the headers which comprises applying brazing material to the headers in the form of loose discrete particles of the general size of 0.010" to 0.025", distributing the brazing material around the tubes to a substantially uniform depth on the headers, applying flux above the brazing material in the form of particles of small size, and thereafter raising the assembly to brazing temperature.

---

**2,389,176**
**PRODUCTION OF AVIATION GASOLINE**
**James A. Anderson, Jr., Goose Creek, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application July 21, 1944, Serial No. 545,976**
**4 Claims. (Cl. 196—52)**

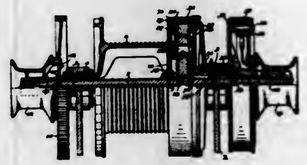


1. A method for producing an olefin-free aviation grade fuel comprising the steps of subjecting a catalytically cracked naphtha to distillation to separate a fraction boiling between 105° and 250° F., solvent extracting said fraction to form a first raffinate fraction and a first extract fraction, separating said first raffinate fraction from said first extract fraction, subjecting said first extract fraction to a second extraction step to separate a second raffinate fraction and a second extract fraction, subjecting said second raffinate fraction to a step of catalytic hydrogenation capable of converting olefins therein to saturated hydrocarbons, removing product from the hydrogenation step and blending it with at least portions of the first raffinate fraction and the second extract fraction to produce an aviation grade fuel.



---

**2,389,177**
**WINCH**
**Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, Franklin, Pa., a corporation of Pennsylvania**
**Application March 18, 1944, Serial No. 527,087**
**7 Claims. (Cl. 254—187)**

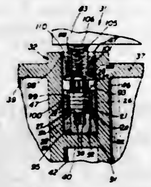


7. A winch comprising a frame, a pair of spaced bearings carried thereby, a hollow drum having end walls with hollow journals projecting outwardly therefrom and mounted in said bearings, a drive shaft rotatably disposed in the drum and extending through one of said journals with an annular space between them, said drum being provided inside with a radial wall spaced from said end walls, planetary gears rotatably mounted on said radial wall, a pinion rigidly mounted on said shaft and meshing with said gears, a ring gear inside the drum meshing with the planetary gears and rotatable around the shaft independently of the drum, supporting means for the ring gear extending out of the drum through said annular space, means engageable with said supporting means outside the drum for stopping rotation of the ring gear to cause said shaft to drive the drum at low speed through said pinion and planetary gears, and means carried by the drive shaft and adapted to be connected with said supporting means outside the drum for directly coupling the ring gear to the drive shaft for driving the drum at the same speed as the shaft.

---

**2,389,178**
**APPARATUS FOR VULCANIZING ARTICLES**
**Harry Blount, Baltimore, and Ferdinand A. Coldehoff, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application December 27, 1943, Serial No. 515,750**
**3 Claims. (Cl. 18—5)**

2. In a vulcanizing press, a block having a core portion and an annular portion positioned in concentric relationship and also provided with a bottom portion forming with the core and the annular portions an open, annular cavity, each of said portions having a chamber formed therein and connected with the chambers formed in other portions, a supply pipe leading to one of said chambers, means for selectively supplying hot steam to the supply pipe, means for selectively supplying cold water to the supply pipe, an exhaust pipe, means for exhausting stem or water from the exhaust pipe, a plurality of annular rings having a plurality of aligned sockets formed therein, a plurality of inserts fitting into the sockets formed in one of the rings, a plurality of tubes adapted to fit into the sockets in another of said rings, another of said rings being formed of copper and adapted to closely retain in the sockets formed therein a plurality of metallic tubes containing a plurality of unvulcanized



rubber discs and a plurality of conductors extending through the discs, a plurality of discs positioned in said first mentioned tubes, a plurality of springs for urging the discs against the ends of said conductors, a ram, a platen attached to said ram, and hydraulic means for forcing said platen against the upper ends of said first mentioned tubes to force said tubes against a plurality of unvulcanized rubber discs contained in a plurality of metallic tubes held in the sockets formed in said second mentioned ring to compress said unvulcanized rubber discs.

---

**2,389,179**
**ELECTRODEPOSITION OF METALS**
**Henry Brown, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware**
**No Drawing. Application February 21, 1941, Serial No. 379,951**
**18 Claims. (Cl. 204—45)**

1. In a process of electrodepcsiting metals, the step which comprises electrolyzing an aqueous acid solution of a salt of the metal to be deposited and a minor proportion of a soluble sulphate of a water-soluble aliphatic polyhydric alcohol partially esterified with a fatty acid containing from 12 to 14 carbon atoms, the metal to be deposited being selected from the group consisting of nickel, cobalt, iron, zinc, cadmium, copper, and antimony.

---

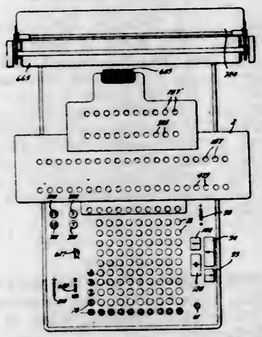
**2,389,180**
**ELECTRODEPOSITION OF METALS**
**Henry Brown, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware**
**No Drawing. Application March 3, 1941, Serial No. 381,547**
**17 Claims. (Cl. 204—45)**

1. In a process of electrodepositing metals, the step which comprises electrolyzing an aqueous acid solution of a salt of the metal to be deposited and a minor proportion of a soluble sulphoacetate of a water-soluble aliphatic polyhydric alcohol partially esterified with a fatty acid containing from 12 to 14 carbon atoms, the metal to be deposited being selected from the group consisting of nickel, cobalt, iron, zinc, cadmium, copper, and antimony.

2,389,181
**ELECTRODEPOSITION OF METALS**
Henry Brown, Kansas City, Mo., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application May 15, 1941, Serial No. 393,662
16 Claims. (Cl. 204—45)

1. In a process of electrodepositing metals, the step which comprises electrolyzing an aqueous acid solution of a salt of the metal to be deposited and a minor proportion of a soluble aliphatic alkyl ether sulfonate containing an alkyl radical having a chain of from 6 to 18 carbon atoms, the metal to be deposited being selected from the group consisting of nickel, cobalt, iron, zinc, cadmium, copper, and antimony.

2,389,182
**LISTING CALCULATOR**
George C. Chase, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application November 19, 1940, Serial No. 366,261
20 Claims. (Cl. 235—60)

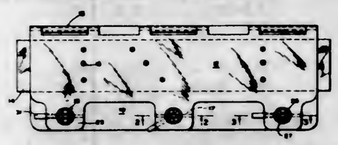


1. In a listing calculator, the combination with value entering devices, calculating means including differential actuators settable under control of said entering devices, and a register; and printing means including type bars settable under control of the value entering devices; of motor drive means, a clutch connecting the actuators with the drive, a clutch independently connecting the printing means with the drive, an operation key, clutch control means designed for operation by said key to effect plural cycle operation of the differential actuators and single cycle operation of the printing means and including independently adjustable elements, and a switch settable to adjust the elements of the control means to connect the key with the actuator clutch only, the printing clutch only or concomitantly with both clutches.

2,389,183
**PROCESS OF PRODUCING WEATHER-RESISTANT GLUE BOND**
Charles N. Cone, Portland, Oreg., assignor to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon
No Drawing. Application November 17, 1942, Serial No. 465,914
5 Claims. (Cl. 144—309)

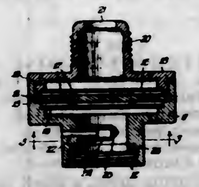
1. The process of making plywood comprising assembling wood veneers in face to face superimposed relation with a layer of an adhesive material comprising an admixture of a proteinous glue and an aqueous solution of a thermosetting phenol-formaldehyde resinous glue between adjacent veneers in which the ratio of protein to resin is not less than 1.5:8.5 nor more than 8.5:1.5, applying pressure to the assembled panel for producing a bond between adjacent veneers of sufficient strength so that the rudimentary panels can be handled, and subsequently heating the panels to cure the bond and produce a panel possessing high water and weather resistant qualities.

2,389,184
**CLAMPING AND SECURING DEVICE**
John P. Cooke, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif., a corporation of California
Application December 15, 1943, Serial No. 514,327
15 Claims. (Cl. 10—107)



1. A clamping and securing device comprising two elements normally related for relative rotation, one a screw, the other a part having a thread mating with the screw so that rotation of the part relative to the screw produces relative axial movement between the elements, a clamping and securing member actuated by relative axial movement between the elements, and cam means operated by said rotation of said part to produce actuation of said member in the same direction as that produced by said thread, the cam means including a part non-rotatable with respect to the first named part, said parts having cooperating cam faces, said faces being formed and related to lock the elements against retrograde axial movement during the final rotation of the first named part which final rotation causes the thread to produce said relative axial movement whereby the member is finally actuated as said parts are locked.

2,389,185
**APPARATUS FOR THE PURIFICATION OF WATER**
Herbert L. Dick, Barrington, Ill., assignor to Tested Appliance Company, Chicago, Ill., a corporation of Nevada
Application February 12, 1943, Serial No. 475,612
5 Claims. (Cl. 210—62)



1. In combination with a canteen, water purification apparatus comprising a hollow body portion fitted to said canteen and having an inlet and an outlet, a filter and drainage elements spaced from each other and mounted in said body portion between said inlet and outlet, means connected with said hollow body portion for introducing air to the body of the canteen, said means being positioned within an air introducing chamber between said filter element and said canteen, and said filter element consisting of a filter paper pad having interstices formed by closely compacted fibrous material which will prevent the passage of solid particles but which will permit a relatively free flow of water therethrough, the interstices being so fine as to make it impossible to provide enough air through said outlet and through said filter to provide a sufficient rate of flow of water therethrough during the drinking period without the aid of said air introducing means within said air introducing chamber.



2,389,186
**TRANSMISSION**
Adiel Y. Dodge, Rockford, Ill.
Application May 14, 1942, Serial No. 442,955
10 Claims. (Cl. 60—53)



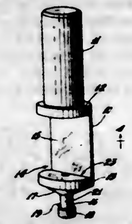
8. In a fluid transmission, a fluid motor comprising a motor body having a plurality of cylinders in annular array around a shaft, pistons in the cylinders, a swash plate mounted for pivotal movement about an axis transverse to and displaced from the axis of the shaft, yielding means urging the swash plate to a position at right angles to the shaft, a ring rotatably and slidably carried by the swash plate, connecting rods jointed at their opposite ends to the pistons and the ring, and a universal joint coaxial with the shaft connecting the ring to the motor body.

2,389,187
**OXIDATION OF ORGANIC COMPOUNDS**
James Gordon Napier Drewitt, London W. 1, England, assignor to British Celanese Limited, London, England, a company of Great Britain
No Drawing. Application November 6, 1942, Serial No. 464,783. In Great Britain January 14, 1942
3 Claims. (Cl. 260—603)

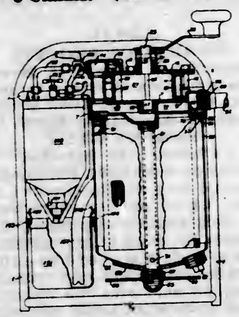
1. Process for the oxidation of alpha-glycols, which comprises mixing together at a temperature below about 30° C. a substantially molecular part of alpha-glycol, about 1.1 molecular parts of red lead and an excess of glacial acetic acid and thereafter warming the mixture to a temperature of 60 to 90° C. until the oxidation of the alpha-glycol is complete.

2,389,188
**DRILL**
Harry J. Esdale, Union, N. J.
Application March 17, 1945, Serial No. 583,346
2 Claims. (Cl. 125—20)

1. A drill comprising a body portion provided with spaced, flat, horizontally disposed ledge portions, an inner wall on said body portion offset from the longitudinal axis thereof and connecting said ledge portions and defining, with the ledge portions, a recessed portion, a shank depending from one of said ledge portions, a tubular stem depending from the other of said ledge portions, and a terminal ring secured to said stem, said drill being provided with an axial aperture through said ring, stem and lower ledge portion, and a coating of abrasive material affixed to the inner and outer walls of said terminal ring and to the outer face thereof.



2,389,189
**PORTABLE FILTER**
Lawrence S. Farrell, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application July 21, 1943, Serial No. 495,788
3 Claims. (Cl. 210—40)

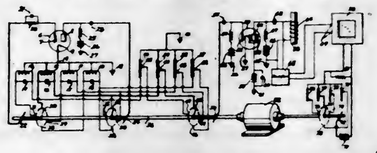


1. In a light weight portable liquid filtering apparatus, the combination of a tubular frame, a pump body mounted on said frame, a pump inlet, a pump discharge passage in said body, a filtrate outlet, a double faced filter screen suspended from said body and having its interior connected and communicating with said filtrate outlet, and a filter tank removably mounted upon said body, surrounding said screen and communicating with said pump outlet, said filter screen being in the form of a hollow cylinder and having filtering surfaces on both inside and outside.

2,389,190
**TESTING MEANS**
George F. Fermier, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application November 27, 1942, Serial No. 467,101
4 Claims. (Cl. 175—183)

1. A means for measuring the electric properties of the surface regions of a piece of conducting magnetic material comprising, a source of periodic current capable of variation to produce currents of a plurality of different frequencies, means for interposing a plurality of different predetermined resistances to the flow of current from said source, means for causing a current flow from said source to produce a current flow in the surface regions of the piece to be measured, means for indicating the voltage of the current input to said last mentioned means, indicating means hav-

ing a plurality of positions corresponding in number to the number of different frequencies which said electric current source is capable of producing, and mechanical switching means for correlating the frequency of said electric current source, the amount of resistance interposed in the current flowing from said source, and the position of said last mentioned indicating means,



whereby when said mechanical switching means is in a position to cause said current source to produce any given predetermined frequency, a given predetermined resistance corresponding to said frequency will be interposed in the path of current flowing from said source and the said last mentioned indicating means will be caused to produce an indication corresponding to the frequency being produced by said current source.

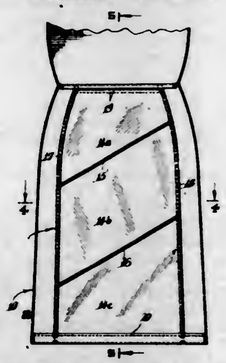
---

**2,389,191**
**SEPARATION PROCESS**
**J. D. Fitzpatrick and Latimer D. Myers, Cincinnati, Ohio, assignors to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio**
**No Drawing. Application March 5, 1942, Serial No. 433,516**
**2 Claims. (Cl. 260—406)**

1. A process of separating commingled azelaic acid, pelargonic acid and by-product acids from one another, which process comprises first removing the pelargonic acid content of the commingled bodies by distillation, adding water to the mixture of azelaic acid and by-product acids thereby forming two layers, one containing a solution of azelaic acid and the other consisting essentially of by-product acids, removing the by-product acids from the aqueous solution of azelaic acid and evaporating the water from the solution of azelaic acid.

---

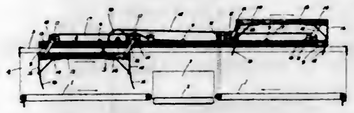
**2,389,192**
**GARMENT**
**Al Friedland, Lawrence, N. Y.**
**Application July 27, 1944, Serial No. 546,805**
**4 Claims. (Cl. 2—74)**



1. In a garment, a skirt, a highly yieldably lining strip disposed within the skirt having its upper and lower edges secured thereto, and said strip being of a width to freely overlie the inner wall of the seat portion of the skirt and being unattached to the skirt at all points between said upper and lower secured edges to permit expansion and contraction of the yieldable strip to prevent puffing at the seat portion of the skirt during wear.

---

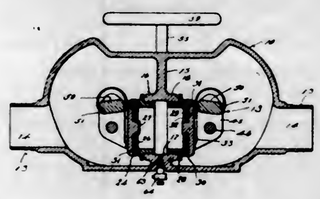
**2,389,193**
**SUPPLEMENTAL FEED FOR DRAPERS**
**Earl C. Graves, Trowbridge, Calif.**
**Application August 18, 1944, Serial No. 550,019**
**2 Claims. (Cl. 198—166)**



1. A supplemental feed device for a pair of horizontal drapers spaced apart horizontally and feeding toward each other, said device comprising a horizontal frame beam mounted above and extending along both drapers in overhanging relation thereto, a pair of horizontal bars, one for each draper, in front of the beam, feed fingers depending from each bar, a pair of parallel crank arms connected to each bar and supported for rotation from the beam, and an operating mechanism to rotate the cranks so that on the down stroke of the cranks the bars will travel in the same direction as the corresponding drapers said mechanism being so relatively arranged that when one bar is at its top most position the other bar is at its lower most position.

---

**2,389,194**
**VALVE**
**Leland S. Hamer, Long Beach, Calif.**
**Application February 5, 1943, Serial No. 474,837**
**9 Claims. (Cl. 277—22)**



3. A valve including a hollow body adapted to be connected between two fluid handling elements and having openings in its walls for communicating with the elements, a partition across the interior of the body having an opening aligned with the first named openings, a seat on the partition at each end of the opening therein, a turnable shaft in the body at each side of the partition, an arm extending from each shaft, a valve member on each arm for cooperating with the respective seat, a gear on each shaft, and a single drive gear meshing with both of said gears for simultaneously turning the shafts between positions where the valve members cooperate with the seats and positions where the valve members are clear of the passage which extends between the openings.

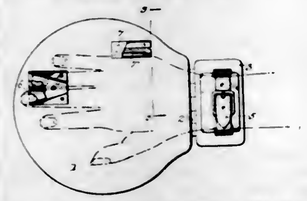


**2,389,195**
**TREATMENT OF WOOD**
**Clifford I. Haney, Greenwich, Conn., and Mervin E. Martin and Thomas E. McGoury, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application February 26, 1943, Serial No. 477,298**
**11 Claims. (Cl. 260—229)**

1. In a process for the preparation of an organic ester of cellulose of relatively high degree of esterification, the steps which comprise digesting comminuted wood with a lower aliphatic acid at a temperature of at least 130° C. whereby the wood is pulped and the cellulosic constituents thereof partially esterified, removing the lower aliphatic acid and the material dissolved therein from the cellulosic constituents and, while said cellulosic constituents still retain substantially all of the acyl groups gained during the digesting step, subjecting said partially esterified cellulose to further esterification.

---

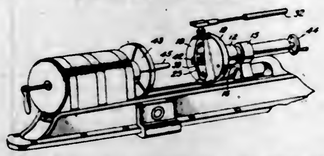
**2,389,196**
**SWIMMING PADDLE**
**Alvah L. Harmon, Royal Oak, Mich.**
**Application April 14, 1944, Serial No. 530,973**
**1 Claim. (Cl. 9—21)**



A swimming paddle comprising a blade, a pair of gripping clips extending from the back face thereof, one of which is engageable between the two fingers of the user's hand, the other clip being offset rearwardly from the finger clip adapted to engage the outer edge of the palm of the hand to form a lateral brace, a blade shank in hinge connection with the blade and a strap-band carried by the blade shank for attachment to the swimmer's arm directly back of the wrist, the paddle being adapted to swing upon its hinge when the fingers and one side of the hand are disengaged from the clips.

---

**2,389,197**
**RIVET SET FORMING TOOL**
**Frank E. Keller, Wichita, Kans.**
**Application May 6, 1943, Serial No. 485,848**
**2 Claims. (Cl. 77—1)**



1. In a rivet set forming tool; a face plate and a hollow shank thereon for the snug reception of the tail stock spindle of a lathe, a flanged plate having bearing support legs thereon, a tool carrying yoke, said tool carrying yoke being revolvably carried in bearings on said bearing support legs and handle means connected to said tool carrying yoke element for swinging the yoke about an axis passing through the yoke bearings, and means for holding the second said plate against the first said face plate to maintain parallelism of the second said plate and the first said face plate, and means for shifting the second said plate in a plane parallel to the first said face plate, and means for rigidly holding the second said plate in adjusted positions against the first said face plate for the purpose described.

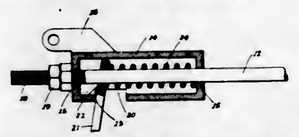
---

**2,389,198**
**FLINT ALLOY**
**Henry Kent, Englewood, N. J.**
**No Drawing. Application July 24, 1942, Serial No. 452,204**
**3 Claims. (Cl. 75—152)**

1. An alloy for flints consisting of approximately 300 parts in weight of misch-metal, 75 to 100 parts of iron, about 5 parts of copper and small quantities of silver, nickel and chromium, said quantities of silver, nickel and chromium together being less than 2% in weight of the alloy.

---

**2,389,199**
**SCRAPER DUMP CONTROL**
**Royal B. Laird, Merced, Calif.**
**Application August 12, 1944, Serial No. 549,167**
**1 Claim. (Cl. 37—153)**



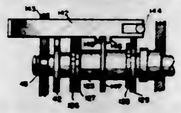
A means to control the revoluble action of a tractor drawn revolving scraper; such means comprising a frame supported by the tractor, a tubular body pivotally supported at one end to said frame, said body being closed at both ends and having a slot formed in its side, a rod slidable through the ends of the body, stops means on one end of the rod adapted to engage the adjacent end of the body to limit the movement of the rod in one direction, means on the other end of the rod adapted for attachment to the scraper, a lever depending through the slot, the lever being provided with a bore through which the rod projects, the diameter of the bore being slightly greater than the diameter of the rod and the wall of the bore being normally out of parallel with the rod, whereby when the lever is suspended in a substantially vertical position from the rod the lever will grip the rod about the bore, yieldable means normally urging the lever into rod gripping position, and means to cant the lever at an angle to the vertical and bring the wall of the bore into substantial parallelism with the rod whereby to allow the rod to slide freely through the bore and tubular body.

---

**2,389,200**
**WEB FEEDING DEVICE**
**Ross A. Lake, Oak Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware**
**Original application February 22, 1943, Serial No. 476,693. Divided and this application February 26, 1944, Serial No. 524,102**
**6 Claims. (Cl. 178—42)**

1. Apparatus for imparting step-by-step advancement to a strip having rows of telegraph

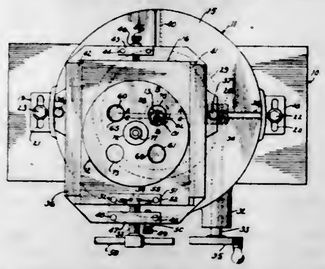
signal indicia with a feed hole intermediate certain signal indicia, comprising a member engageable with the feed holes in said strip, a plurality of key levers, means controlled by said key levers for causing said member first to be moved free of said strip and then to engage said strip, cyclically operable means effective upon each operation of said key levers, rotary means controlled by said



cyclically operable means for positively reciprocating said member longitudinally of said strip, means for holding said strip while said member is free of said strip and is being moved to a different position, and means for shifting said rotary means to facilitate the movement of said member longitudinally of said strip in a reverse direction to back space said strip.

---

**2,389,201**
**MEANS FOR CUTTING RECESSES**
**Otto Lawrenz, Chicago, Ill.**
**Application November 5, 1941, Serial No. 417,935**
**7 Claims. (Cl. 90—20)**

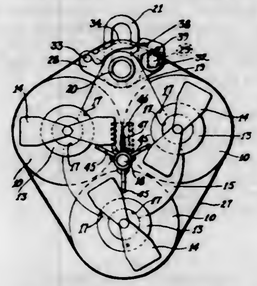


1. A cutting machine for supporting a work piece to be recessed by a rotary cutter comprising support means, bearing means for the rotary cutter adjustably mounted on said support means, a table mounted for rotation on said support means, a second table for carrying the work piece slidably mounted on said first table, means for shifting said support means and said first table relative to said cutter and said second table, and means for rotating said first table and for sliding said second table to afford engagement of the work piece by the rotary cutter.

---

**2,389,202**
**BOMB RACK**
**George H. Leland, Dayton, Ohio**
**Application February 2, 1942, Serial No. 429,205**
**2 Claims. (Cl. 89—1.5)**

1. A device for connecting the ends of the supporting band of a bomb cluster adapter, comprising a body portion, means adjacent one end of said body portion for connecting one end of said band therewith and for tightening said band about said cluster of bombs, a pivot pin secured to said body portion adjacent the other end thereof on the inner side of said band and having a convex surface, a lever supported normally in a connecting position lengthwise of said body portion, having means for connecting the other end of said band therewith between the ends thereof and having at one end thereof a concave bearing surface engaging said pivot pin to pivotally and detachably connect said lever with said body portion, and releasable means to hold said lever normally against pivotal movement, said bearing surface being arranged with relation to said pivot pin to prevent the longitudinal movement of said lever by the pull of said



band and to permit said lever to be moved about and separated from said pivot pin by the pull of said band when said lever is released for pivotal movement, said concave surface of said lever comprising an arcuate portion of substantially less than 180° and a tangential portion extending rearwardly from said arcuate portion to facilitate the separation of said lever from said pivot pin.

---

**2,389,203**
**CONDENSED HALOGENATED TALL OIL PRODUCTS AND METHOD FOR MAKING THE SAME**
**Eugene Lieber, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Original application October 12, 1938, Serial No. 234,633. Divided and this application July 19, 1940, Serial No. 346,291**
**9 Claims. (Cl. 260—97.5)**

1. An improved wax modifier comprising a Friedel-Crafts condensation product of about one part by weight of halogenated "tall oil" and about 3 to 4 parts by weight of an aromatic organic compound.

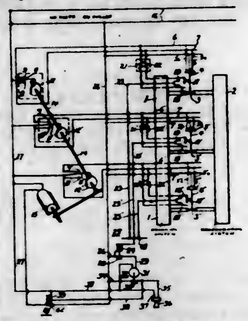
---

**2,389,204**
**ALARM SIGNAL SYSTEM FOR AUTOMATIC VALVES**
**William C. Ludi and Eugene M. Fry, Jr., Matawan, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application July 24, 1941, Serial No. 403,852**
**4 Claims. (Cl. 196—52)**

1. In combination, a valve having a valve stem, electrically operated means for moving the valve stem between two opposed limiting positions; one for closing the valve, and the other for opening the valve, normally closed switches at the said limit positions, means controlled by the valve stem for opening the respective limiting switches when the valve stem moves to the corresponding limiting position, cyclically operating switching means for closing either one of two circuits to said electrically operated means, one of said circuits causing the electrically operated means to move the valve stem to valve closing position and the other causing the said means to move the stem to valve opening position, circuit connections between the respective circuits and the respective



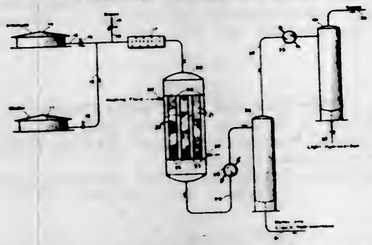
limit switches whereby when a corresponding circuit is closed by the switching means a corresponding circuit is completed through the limit switches, signaling means and a time delay relay controlled by each of said circuits including the



limit switches for operating the signaling means if the corresponding limit switch is not opened within a predetermined time after the cyclically operated switching means closes the corresponding circuit.

---

**2,389,205**
**PREPARATION OF DIOLEFINS**
**Nat H. Marsh, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application June 28, 1943, Serial No. 492,502**
**4 Claims. (Cl. 260—681)**

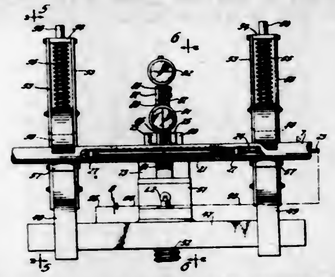


3. A method for producing diolefins comprising the steps of contacting an admixture of monoolefin and aldehyde with activated alumina at a temperature within the range of 500° to 750° F. to cause the formation of diolefins, removing the products of said reaction from contact with said catalyst and separating the diolefins therefrom.

---

**2,389,206**
**APPARATUS FOR GAUGING AND STRAIGHTENING**
**Edgar L. McKinney and James J. Banta, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application December 13, 1943, Serial No. 514,026**
**4 Claims. (Cl. 153—32)**

1. Apparatus for gauging and straightening bent tubes comprising means for supporting a tube at points intermediate the ends thereof, means for applying bending force at bent points in the tube intermediate the points of support, an electrical plug gauge having insulating guiding portions insertable in the tube and an electrical contact between the guiding portions adapted to contact with the interior of the tube only at the bent points therein, an indicator controlled by said gauge, electrical control connections between said tube, said plug contact and said indicator to control operation of the indi-



cator upon contact between the plug contact and tube, and means contactable with the exterior of the tube at the bent points in the tube opposite the point at which the bending force is applied for measuring the deflection necessary to render the indicator inoperative and the tube straight.

---

**2,389,207**
**VACUUM CONDENSER**
**Edward J. Murphy, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application August 25, 1943, Serial No. 499,895**
**2 Claims. (Cl. 175—41)**



1. An electrical device comprising an electric condenser, the dielectric of which comprises a cellulosic material, said condenser being enclosed in an evacuated envelope, said cellulosic material during the normal operation of said condenser evolving gases which tend to reduce the vacuum in said envelope, said gases including carbon monoxide, said envelope containing a solid sorbent material for sorbing said gases from the space surrounding said condenser, said sorbent material including means for oxidizing carbon monoxide to carbon dioxide.

---

**2,389,208**
**SIDE WALL SAMPLE TAKING APPARATUS**
**Willis P. Orr, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application January 22, 1943, Serial No. 473,158**
**2 Claims. (Cl. 255—1.4)**

2. A sample taking apparatus adapted for movement along a drill stem and for taking a

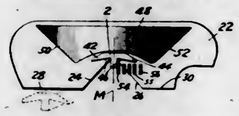
side wall sample through a core bit attached to a drill stem comprising, in combination, an elongated body, releasable means carried by said body and arranged to latch it to the drill stem, a tubular shaped core barrel, means journalling the upper end of said core barrel to the lower end of said body to form an assembly, means carried



by the assembly arranged to bias the free end of the barrel away from the longitudinal axis of said body and releasable means arranged for latching said barrel with its longitudinal axis parallel with the longitudinal axis of said body, including a member slidably arranged on the body to assume an upper and a lower position and to engage with the core barrel when in its lower position.

---

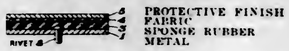
**2,389,209**
**KNITTING MACHINE**
**Frank R. Page, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts**
**Application October 20, 1943, Serial No. 506,989**
**8 Claims. (Cl. 66—48)**



1. The combination of a multi-needle pick and its mounting for a knitting machine which contains elongated slidable butt-carrying elements adapted to engage the pick and to be moved longitudinally thereby, the pick and mounting being arranged so that a butt moving the pick will itself be moved only after the pick has started to move at least one adjacent butt.

---

**2,389,210**
**AIRPLANE WING OR FIN WITH IMPROVED AIRFOIL CHARACTERISTICS**
**Earle C. Pitman, Red Bank, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application April 8, 1942, Serial No. 438,146**
**8 Claims. (Cl. 154—43)**




1. An airplane wing or fin having improved airfoil characteristics comprising a pre-shaped metal body with projecting rivet heads carrying, on at least the surface of the forepart of said body, a coating of about 0.25 inch in thickness comprising an organic polymer of porous, sponge-like structure having a continuous, smooth outer surface without irregularities selected from the group consisting of rubber and synthetic rubber polymers, said rivet heads being embedded in the said rubber but not protuberating from the surface.

---

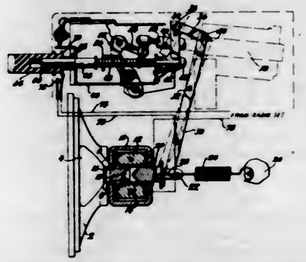
**2,389,211**
**LOW BED TRAILER**
**Robert W. Pointer, Portland, Oreg.**
**Application January 25, 1943, Serial No. 473,468**
**4 Claims. (Cl. 280—33.1)**



1. A device for coupling a semi-trailer to a prime mover vehicle comprising a cantilever frame adapted to be mounted on a prime mover vehicle, said cantilever frame extending downwardly with respect to the rear end of the prime mover vehicle and having a rearwardly extending member, the upper surface of said member being inclined upwardly in the forward direction, a load supporting platform adapted to be detachably coupled to said cantilever frame, means defining a longitudinally extending recess in the forward end of said platform for receiving said rearwardly extending member, a transverse bearing surface provided in the upper forward end of said recess and bearing upon said inclined surface during engagement and disengagement of said frame and said platform whereby said platform is elevated from a loading position to a load transporting position as said member enters said recess.

---

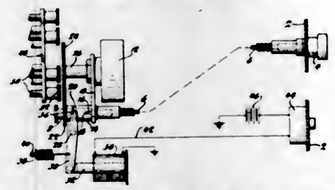
**2,389,212**
**COMBINATION SOLENOID SPEAKER**
**Bertram A. Schwarz, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application September 2, 1942, Serial No. 457,003**
**9 Claims. (Cl. 250—20)**



1. In a control system for a radio receiver having a speaker and tuning means, a solenoid coil for the speaker, a stationary core mounted within the coil, a speaker coil mounted adjacent the solenoid and core to actuate the speaker to produce audible waves, a relatively movable core mounted within the solenoid and affected by the magnetic field thereof to move the same in one direction, biasing means urging the core in the opposite direction, and means actuated by movement of the movable core to operate the tuning means.



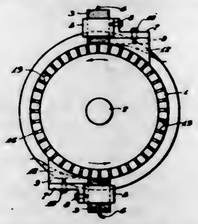
**2,389,213**
**TUNING MECHANISM**
**Bertram A. Schwarz, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application September 7, 1942, Serial No. 457,614**
**7 Claims. (Cl. 250—20)**



1. In a control system for radio apparatus having tuning means, a plurality of presettable indexing means to sequentially move the tuning means to different predetermined positions, means to adjust the indexing means to different positions, volume control means for the receiver, shiftable driving means to selectively engage either the means to adjust the indexing means or the volume control means, and a separate manually rotatable means to tune the receiver over the range thereof.

---

**2,389,214**
**METHOD AND APPARATUS FOR PROLONGING THE LIFE OF ELECTRIC BRUSHES**
**Erle I. Shobert, II, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania**
**Application September 24, 1941, Serial No. 412,134**
**8 Claims. (Cl. 171—324)**

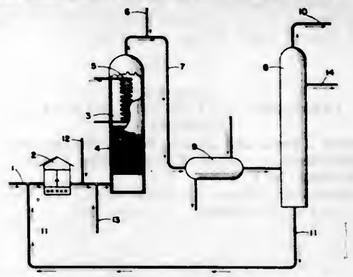


8. The combination with a commutator having segments separated by circumferentially spaced slots, and an electric brush contacting the commutator, of an air deflecting and conducting member extending away from the entering side of the brush and having laterally spaced side walls substantially engaging said commutator, whereby a stream of air is directed against the contact surface of the commutator where it starts to engage the brush, and means filling the end portions of said slots to prevent said air from escaping from between said side walls.

---

**2,389,215**
**PROCESS FOR DEHYDROGENATING A HYDROCARBON**
**Henry M. Singleton, Goose Creek, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application February 15, 1943, Serial No. 475,866**
**12 Claims. (Cl. 260—669)**

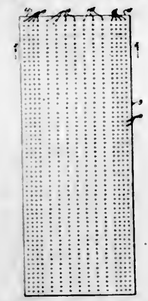
1. A method for subjecting a hydrocarbon to a conversion involving dehydrogenation which comprises adding an organic heterocyclic compound containing a plurality of double bonds in its ring structure to the hydrocarbon to be con-



verted and subjecting the hydrocarbon in admixture with the organic heterocyclic compound to condit'ons suitable for said conversion.

---

**2,389,216**
**PRESSING CLOTH**
**Alva T. Smith, Milwaukee, Wis., assignor to The Sunlite Mfg. Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application January 20, 1943, Serial No. 472,922**
**8 Claims. (Cl. 28—80)**



1. A pressing cloth positionable over a garment to be pressed comprising a piece of closely woven fabric having a firm lower garment contacting surface, said fabric having its upper surface treated with waterproofing material to render the upper surface substantially waterproof, said waterproofing material being stable under the heat of a pressing iron, said fabric having spaced steam distributing punchings extending through the waterproofing material and the fabric to provide for the spaced discharge of steam from the upper waterproofed surface of the pressing cloth through said punchings onto the garment below, the punchings in certain areas of the fabric being more closely spaced than in other areas.

---

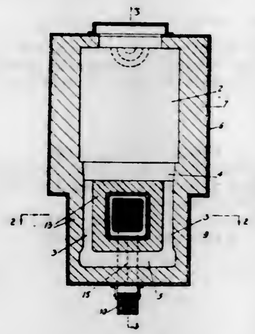
**2,389,217**
**PROCESS FOR THE MANUFACTURE OF MALONONITRILE**
**Alexander R. Surrey, Albany, N. Y., assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application August 26, 1943, Serial No. 500,073**
**9 Claims. (Cl. 260—464)**

1. The process for the preparation of malononitrile which comprises heating a mixture of

cyanoacetamide, an amount of an alkali metal chloride adequate to ensure the formation of a granular precipitate, and a dehydrating agent of the group consisting of phosphorus oxychloride, phosphorus pentachloride, and mixtures thereof in a solvent inert to the reactants.

---

**2,389,218**
**COOLING SYSTEM FOR INDUCTION FURNACES**
**Manuel Tama and Mario Tama, Morrisville, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J.**
**Application August 21, 1944, Serial No. 550,442**
**5 Claims. (Cl. 13—29)**

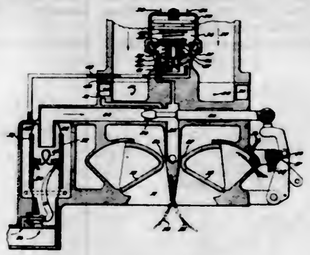


3. An induction furnace of the submerged resistor type particularly for melting metallic charges which form low melting segregations of easy fluidity, comprising a housing provided with a refractory inside lining, an upper hearth and a secondary loop in said housing, said loop being located underneath said hearth, a primary threading said secondary loop including a primary coil, a coil duct accommodating said coil, a secondary block accommodating said primary and said secondary loop, water jackets attached to said secondary block at places outside of said coil duct to transmit the cooling effect of said jackets to the surface portions of said secondary block adjacent said primary.

---

**2,389,219**
**MIXTURE CONTROL**
**Robert K. Thompson and Keith E. Dixon, Detroit, Mich., assignors to George M. Holley and Earl Holley**
**Application October 18, 1943, Serial No. 506,764**
**1 Claim. (Cl. 261—69)**

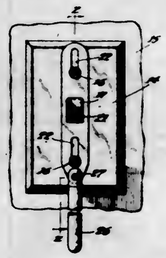
A variable Venturi carburetor, an air entrance, a fuel entrance adapted to discharge into the throat of said variable venturi, a fuel supply chamber having a moving wall, an air chamber associated with said moving wall, an air pressure regulating chamber, a diaphragm therein dividing said air pressure regulating chamber into an atmospheric chamber connected to the air entrance and a sub-atmospheric chamber connected to the throat of said variable venturi, barometric means located in said atmospheric chamber spring means interposed between said diaphragm and said barometric means, a passage connecting said sub-atmospheric chamber with the first-mentioned air chamber, a restricted air entrance into said passage, valve means operatively connected to said diaphragm, spring and barometric means and



adapted to control the connection of said passage with said sub-atmospheric chamber.

---

**2,389,220**
**SWITCH ACTUATOR**
**Earl W. Tredeau, West Allis, Wis.**
**Application November 20, 1942, Serial No. 466,306**
**2 Claims. (Cl. 200—172)**



1. For a light switch having a retaining strip with a pair of spaced threaded holes therein, a face plate having apertures therethrough in alinement with said threaded holes and a primary switch actuator projecting through said face plate, a secondary actuator structure adapted to be mounted on the switch without removing or reversing said face plate comprising a secondary actuator having elongated apertures therein and an aperture receiving said primary switch, spacing means projecting through said elongated apertures and forming guides for said secondary actuator, a pair of screws for securing said spacing means against said face plate and the face plate in assembled position and passing through the apertures in said face plate and the threaded holes of said strip, and means on said secondary actuator to enable the primary switch actuator to be moved from a point remote therefrom and within the reach of a toddler.

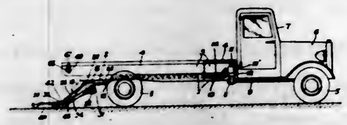
---

**2,389,221**
**ELEVATOR**
**Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois**
**Application December 18, 1944, Serial No. 568,606**
**17 Claims. (Cl. 214—77)**

1. In combination, a vehicle frame and a body frame mounted thereon, a movable platform, a main unitary support secured to said vehicle



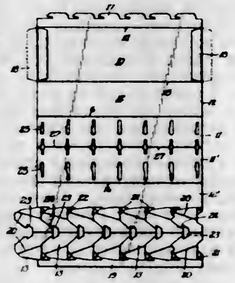
frame, a plurality of links, each link supported at one end from said main support and pivoted at its other end to said platform, a hydraulic cylinder supported from said main support, a piston therein, a piston rod secured to said piston and secured to said links, means for directing



fluid to the outer end of said cylinder, said means comprising a valve control for said cylinder, whereby the piston is positively forced in the raising direction within said cylinder, and means for supplying fluid under pressure to said cylinder.

---

**2,389,222**
**CARTON**
**John E. Walsh, Chicago, Ill., assignor to Self-Locking Carton Co., Chicago, Ill., a corporation of Illinois**
**Application December 2, 1943, Serial No. 512,544**
**5 Claims. (Cl. 229—28)**



1. An assembled collapsible egg carton, comprising front and rear walls joined by a continuous bottom which extends into a longitudinal partition, cross partitions having hinges secured adjacent said walls for rotation from horizontal to spaced apart upright position providing egg-receiving cells interlockingly engaging said continuous bottom, each cross partition being weakened in areas which provide predetermined lines of fold to permit the walls and partitions flatly to collapse against each other until ready for use when they are expanded into egg-receiving cells by insertion of eggs between said walls and partitions, said lines of fold each beginning at the top of each cross partition on each side of the longitudinal partition at a point which is about midway between a vertical line overlying the ridge of the longitudinal partition and the ends of the transverse partitions where they join the rear and front walls of the carton, one of said lines terminating at the bottom of one side of its transverse partition adjacent to and pointing in the direction of a crease line forming a hinge between the rear wall and continuous bottom and another of said lines terminating at the bottom of the opposite side of the transverse partition adjacent to and pointing in the direction of a crease line forming a hinge between the front wall and continuous bottom.

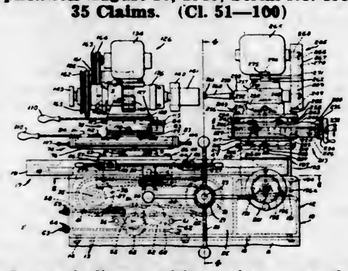
**2,389,223**
**EYESHIELD**
**Mack M. Werner, Brooklyn, N. Y.**
**Application February 20, 1941, Serial No. 379,759**
**4 Claims. (Cl. 2—15)**



4. A protective covering for the body including in combination a moldable and relatively inelastic frame and an expansible diaphragm attached thereto for overlying a portion of the body.

---

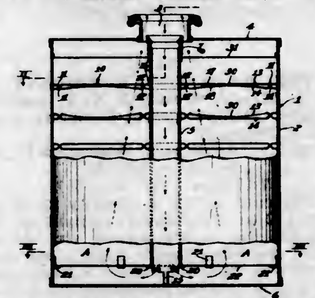
**2,389,224**
**GRINDING MACHINE**
**Walter G. Wessman, Fairfield, Conn.**
**Application August 10, 1943, Serial No. 498,058**
**35 Claims. (Cl. 51—100)**



1. In a grinding machine, a base, a work head and a tool head on said base, a first reciprocable slide, swivel means mounting said slide for radial adjustment, a second reciprocable slide, swivel means mounting the second reciprocable slide on the first reciprocable slide for radial adjustment relative thereto, swivel means mounting one of said heads on the second reciprocable slide for radial adjustment relative thereto, and swivel means mounting the other of said heads for independent radial adjustment.

---

**2,389,225**
**CANISTER**
**George A. Wieczarek, Jr., Pittsburgh, and Carey B. Jackson, Forest Hills, Pa.**
**Application November 24, 1939, Serial No. 305,872**
**6 Claims. (Cl. 183—49)**



1. In a canister having a passage therethrough and in which layers of purifying material are

disposed, a yieldable support between the layers of purifying material comprising a pair of flat strips of yieldable perforated material and a separable spacing means between the flat strips shaped and arranged over the surface of each sheet so that each of the strips is operative to yield to the expansion of the layers of purifying material engaged.

---

2,389,226

## FAST SHEAVE MOUNTING FOR OIL WELL MASTS

**Homer J. Woolslayer, Erwin A. Campbell, and Cecil Jenkins, Tulsa, Okla., assignors to Lee C. Moore & Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania**

**Application April 10, 1944, Serial No. 530,290**
**8 Claims. (Cl. 254—145)**



5. The combination with a mast having legs connected by cross members, a crown block at its top, a hoisting drum at its bottom adjacent one side of the mast, a traveling block inside the mast, and a line suspending the traveling block from the crown block and also extending from the traveling block down the outside of said cross members to the drum, of a vertical sheave journaled substantially in the drum side of the mast below the crown block and projecting from the mast, said sheave supporting said line between the drum and traveling block, the center of the sheave being located at one side of the central vertical plane of the mast that is perpendicular to said drum side, and said sheave being skewed horizontally to position its outermost point near said plane and its innermost point nearly directly above the point at which said line from the sheave enters the traveling block.

---

2,389,227

## PNEUMATIC TOOL LUBRICANT

**Donald L. Wright, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application September 15, 1943, Serial No. 502,461**
**7 Claims. (Cl. 252—56)**

1. A lubricant having a viscosity in the range of about 150 to 1000 seconds Saybolt at 100° F. adapted for use in compressed air and steam motivated machines having high speed reciprocating pistons, which comprises a major proportion of a hydrocarbon lubricating oil and about 1 to 15% of a non-drying thickened fatty oil and about 0.1 to 1.0% of a linear oxygen-containing polymer which normally is plastic to solid, has an iodine number below 20 and a molecular weight of at least 1,000, said polymer being a polymer of an oxygen-containing organic compound having the group

$$-\overset{|}{C}=CH_2.$$

---

2,389,228

## PREPARATION OF TRIPENTAERYTHRITOL OCTANITRATE

**Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.**

**No Drawing. Application April 14, 1943, Serial No. 483,069**
**2 Claims. (Cl. 260—467)**

1. Tripentaerythritol octanitrate,

$$C_{15}H_{24}O_2(NO_3)_8$$

---

2,389,229

## ANTIFOULING COMPOSITION

**George H. Young, Pittsburgh, Pa., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania**

**No Drawing. Application June 5, 1941, Serial No. 396,754**
**2 Claims. (Cl. 106—15)**

1. An antifouling composition for application to surfaces subjected to immersion in sea water and adapted to prevent the attachment thereto of fouling marine organisms while exerting a protective non-corroding action on said surfaces, said composition comprising as the sole film-forming agent a substantially water-insoluble, solvent-dispersed, film-forming organic vehicle having a permeability to water of 5 to 200 milligrams of water per mil of film thickness per square inch per 24 hours, and a toxic component which is a condensation product of a mecuric salt and an aromatic compound selected from a group consisting of benzene and the lower alkyl, aryl, and alicyclic-substituted benzene hydrocarbons, together with their hydroxy and halogenated derivatives, the concentration of toxic component being approximately 15 to 50% by weight of the total non-volatile content.

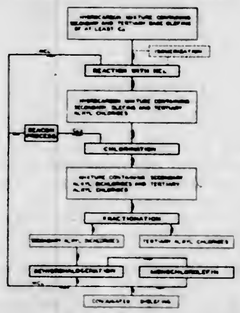
---

2,389,230

## PROCESS FOR TREATING HYDROCARBONS

**Donald B. Blumer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application November 25, 1941, Serial No. 420,431**
**6 Claims. (Cl. 260—660)**



3. The process which comprises reacting in the absence of light a mixture containing a tertiary alkyl chloride and a secondary olefin with substantially anhydrous chlorine at a temperature within the range of −20 to 50° C. and at a pressure sufficient to maintain a liquid phase of the secondary olefin, thereby effecting the addition of the chlorine to substantially all of the secondary olefin with the formation of the secondary alkyl dichloride without appreciable reaction with the tertiary alkyl chloride.



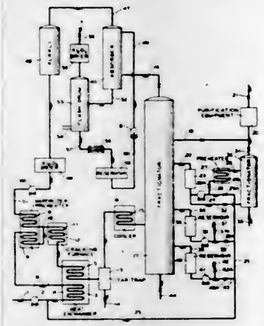
---

2,389,231

## PROCESS FOR CONVERTING ORGANIC HALIDES

**Donald R. Blumer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application February 10, 1942, Serial No. 430,288**
**2 Claims. (Cl. 260—680)**



1. A process for the production of 1,3-butadiene from 2,3-dichlorobutane which comprises passing 2,3-dichlorobutane in vaporized form through an unpacked reaction tube at a temperature within the range of approximately 250° to approximately 750° C. and a pressure of from approximately 0.02 to approximately 2 atmospheres, segregating from the effluent a 1,3-butadiene fraction, a fraction containing incompletely dehydrochlorinated products and a fraction comprising 1,2-butadiene and alkylacetylenes having four carbon atoms in the molecule, subjecting said fraction containing 1,2-butadiene and alkylacetylenes to isomerization in the presence of an activated fuller's earth to convert a substantial portion of the constituents thereof to 1,3-butadiene, and recycling the fraction containing incompletely dehydrochlorinated products together with fresh 2,3-dichlorobutane to the unpacked reaction tube.

---

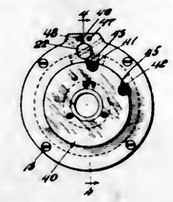
2,389,232

## OSCILLATING OR REVERSING MECHANISM

**John W. Conlon, Granby, Conn.**

**Application August 19, 1943, Serial No. 499,257**
**2 Claims. (Cl. 121—97)**

1. An oscillating mechanism comprising a casing, a rotor member rotatably mounted in said casing, said member and casing being so constructed and arranged as to provide an annular chamber between them, an abutment carried by the rotor to extend radially across the said chamber, a boss on said casing extending into said annular chamber in the path of rotation of said rotor abutment, spaced channels extending laterally through said boss and casing to direct fluid against either side of said abutment, and spaced channels extending laterally through said abutment to exhaust fluid from either side of said abutment, a valve intersecting said channels and having spaced pairs of channels extending laterally therethrough, said valve being movable to align one of each pair of channels therein with a channel of each pair of channels in said casing



to control the flow of fluid to one channel or the other and at the same time control the flow of exhausting fluid through said other channels, spaced arms carried by said rotor and adjustably movable about the axis of said rotor, a pin fixed to said valve and extending therefrom into the path of travel of said arms to be engaged thereby to move said valve to alternately open and close the flow of fluid through said channels.

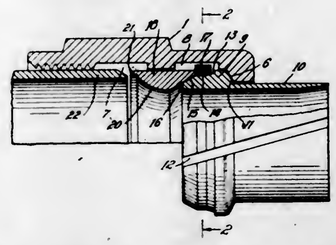
---

2,389,233

## COUPLING NUT FOR FLANGED TUBING CONDUITS

**Irving Cowles, Detroit, Mich., assignor of seventy per cent to himself and thirty per cent to Rudolph Wm. Lotz, Chicago, Ill.**

**Application July 28, 1942, Serial No. 452,669**
**22 Claims. (Cl. 285—122)**



1. A structure for the purpose specified comprising a sleeve-nut equipped at its outer end with an inwardly projecting flange, a split-sleeve mounted rotatably within said nut for limited longitudinal movement therein between said flange and a predetermined point spaced from the latter, a flare-ring similarly mounted within said nut for limited longitudinal movement from engagement with said split-sleeve to a predetermined point in said nut at which said ring is disengaged from said split-sleeve when the latter is disposed at the limit of its movement away from said nut-flange, said ring and split-sleeve equipped with co-operating formations for effecting contraction of the latter to effect its engagement with the tube, and means interposed between said ring and split-sleeve for yieldingly maintaining the same spaced from each other and for transmitting movement of said split-sleeve to said ring after said sleeve has attained a predetermined degree of contraction.

**2,389,234**
**ROAD SIGN OR SIGNAL**
**Robert T. Harrison, Greenville, N. C.**
**Application July 24, 1942, Serial No. 452,225**
**4 Claims. (Cl. 40—130)**



1. A sign comprising a base plate provided with an offset socket formed with a circular opening and a flange defining said opening, an annular reflector unit seated in said opening, said reflector unit comprising a lens having a peripheral recess cut out of the periphery thereof, thereby forming an annular flange larger in diameter than said circular opening, a cup-shaped backing holder having the concave side outermost, and an annular bead carried by said holder encompassing said second flange, said bead bearing against such first flange and said first flange seating in said recess.

---

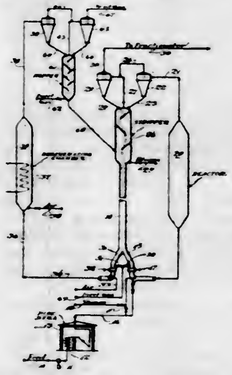
**2,389,235**
**ROTARY MILLING TOOL**
**William C. Harrison, Rapid City, S. Dak.**
**Application November 8, 1944, Serial No. 562,509**
**5 Claims. (Cl. 164—0.8)**



3. A rotary milling tool of the character described, the same comprising a tubular body casing having a pressure head at the upper end thereof, said pressure head having an axial bore and provision for its attachment to the lower end of a tubular operating stem, pressure fluid being controlled and admitted through said stem and pressure head into the upper portion of said body casing, the upper portion of the body casing constituting a pressure chamber, an elongated plunger element slidably fitted in said body casing, said plunger element having a piston head at its upper end working in the pressure chamber of said body casing, means for holding the plunger element from rotation but permitting longitudinal reciprocation of the plunger element within the body casing, a spring element interposed between the bottom of the body casing and said plunger element, said spring element holding the plunger element yieldably in a normally raised position and restoring said element to such position, said spring element yielding to downward movement of the plunger element under pressure of the fluid applied thereabove but reacting to lift the plunger element when relieved of the fluid pressure thereon, said plunger element having at least one longitudinal groove therein, a longitudinal series of separate cutter elements hingedly mounted on said plunger element and normally suspended from their respective hinge mountings and located within the groove of the plunger element, detachable spring elements interposed between the respective cutter elements and adjacent bottom portion of the groove in the plunger element, the body casing having a longitudinal opening in the wall thereof through which the several cutter elements are projected in succession as they are respectively brought into registration with said opening in the body casing, the respective spring elements becoming detached and disengaged from each cutter element and dropping into the space below the cutter element in said longitudinally grooved portion of the plunger element after the directly associated cutter element is projected through the opening in the body casing.

---

**2,389,236**
**CATALYTIC CONVERSION SYSTEM**
**Donald E. Payne, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application December 31, 1940, Serial No. 372,539**
**10 Claims. (Cl. 196—52)**



2. In a catalytic conversion system of the fluid type wherein catalyst is suspended in vapor and gaseous streams in conversion and regeneration zones respectively, the method of operation which comprises introducing partially spent catalyst from the conversion zone and regenerated catalyst from the regeneration zone into the top of a single column of such height and density as to provide the necessary pressure for introducing catalyst into the conversion and regeneration zones, introducing an aerating gas at the base of said column and passing said gas upwardly therethrough at such a rate as to maintain the catalyst in fluent form and to maintain a catalyst density in said column within the approximate range of 20 to 40 pounds per cubic foot introducing one stream of catalyst from the base of said column to said conversion zone and introducing another stream from the base of said column to said regeneration zone.



**2,389,237**
**FINGER COT**
**John A. Petrullo, New York, N. Y.**
**Application May 20, 1943, Serial No. 487,776**
**2 Claims. (Cl. 294—25)**



1. A finger cot for use as a finger protector and sheet turner comprising an open-ended cylindrical member formed of sponge rubber, said member being expansible to accommodate various sizes of fingers and being compressible to provide a flat frictional surface contact between the member and the sheet to be turned, said member being formed from a flat strip, the edges of which are brought together and permanently secured with their initial surfaces in contact, the securing means comprising a metallic staple passing through the edges of said strip, the sheet contact surface of said member being continuous, and the side walls of said member intermediate the secured edges and the sheet contact surface being apertured.

---

**2,389,238**
**COMPOSITE STRUCTURE AND STRUCTURAL ELEMENT**
**William Arthur Phillips, London E. C. 4, England**
**Application October 19, 1942, Serial No. 462,570**
**In Great Britain December 20, 1940**
**5 Claims. (Cl. 72—110)**

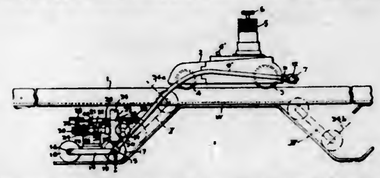


1. A structural element for use in reinforced concrete construction comprising a metallic plate, a plurality of elongated reinforcing rods secured thereto by welding, said rods being in spaced parallel relation and being of wavy form, the crests of one rod being staggered relatively to the crests on adjacent rods, said rods adapted to be embedded in the concrete and being formed at their ends with loops which extend beyond the edges of the plate, said loops adapted to cooperate with similar loops on an adjacent plate whereby the plates may be secured together end to end by reinforcing rods extending through said loops.

---

**2,389,239**
**APPARATUS FOR CUTTING CORRUGATED PLATES AND THE LIKE**
**Leonard H. Place, Huber, Oreg., assignor to Air Reduction Company, Incorporated, a corporation of New York**
**Application June 3, 1943, Serial No. 489,438**
**7 Claims. (Cl. 266—23)**

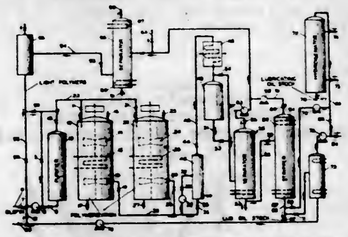
1. In apparatus for cutting corrugated plates or other work-pieces of irregular contour including a self-propelled towing carriage adapted to move along a track, a trailer carriage adapted to run directly on the surface of the work-piece and to be towed by the towing carriage, a gas cutting torch mounted on the trailer carriage, and connecting means between the towing carriage and the trailer carriage; the improvement which comprises the mounting of the gas cutting torch on the trailer carriage so that its axis is substantially vertical when the longitudinal axis of the trailer carriage is horizontal and the tip thereof is substantially in transverse alignment with the front axle of the trailer carriage, and a pivotal connection for said connecting means, whereby the longitudinal axis of the trailer carriage may move out of a horizontal plane and assume a forward or rearward inclination to accommodate itself to



the inclination of sloping portions of the surface of the work-piece over which the trailer carriage is moved and the axis of the torch assumes a position normal to any sloping portion of the surface of the work-piece on which the trailer carriage is supported, with the tip thereof maintaining at all times a substantially uniform distance from the work-piece.

---

**2,389,240**
**PROCESS FOR THE CONVERSION OF HYDROCARBONS**
**James A. Reid, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application November 7, 1940, Serial No. 364,721**
**5 Claims. (Cl. 260—683.15)**



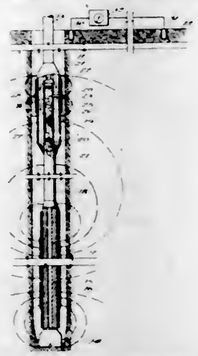
1. An improved process for the production of a viscous hydrocarbon oil of great stability and high viscosity index, comprising contacting a liquid aliphatic hydrocarbon mixture containing a low-boiling olefin of at least three carbon atoms per molecule unassociated with nonolefin reactive material with a zirconium tetrahalide catalyst as the sole polymerization agent at a polymerization temperature between about 40 and about 80° C., correlating and controlling said polymerization temperature to produce at least about 20 per cent of an intermediate molecular weight polymer fraction having a viscosity at 130° F. between 90 and 300 seconds Saybolt and a high viscosity index, and separating from effluents of said polymerization an intermediate polymer fraction within said viscosity range so produced and comprising at least about 20 per cent of the total polymer product.

---

**2,389,241**
**WELL LOGGING**
**Daniel Silverman, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware**
**Application April 24, 1944, Serial No. 532,757**
**8 Claims. (Cl. 177—352)**

1. Well signalling apparatus including an uninsulated conductor extending into said well, an

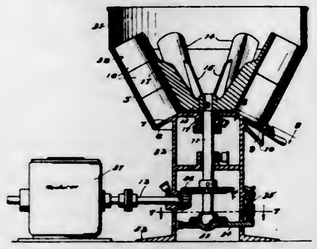
electrode surrounding said conductor but insulated therefrom, the effective length of said electrode being substantially greater than its diameter, a step-down transformer the low turns winding of which is connected between said conductor and said electrode, a source of pulsating electromotive force, a detector of pulsating elec-



tric signals, and means coupled to the earth near the head of said well capable of causing current to flow in the earth upon application of pulsating electromotive force to said means, one of said source and said detector being connected to the high turns winding of said transformer and the other of said source and said detector being connected at the surface of the earth to said means.

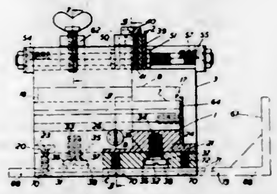
---

2,389,242
**GRINDING MILL**
Martin M. Spanel, Flint, Mich.
Application December 9, 1943, Serial No. 513,502
3 Claims. (Cl. 241—103)



1. A grinding machine comprising a casing having a circular wall of frusto-conical form and provided with a wall for closing the smaller end thereof, the last-mentioned wall having a conical marginal inner surface portion extending at right angles to the inner surface of said circular wall, a shaft journaled centrally in the end wall and having an end projecting into the adjacent end of the casing, a carrier including a hub fixed on the inner end of said shaft within the casing and including carrier arms projecting from the hub in diverging relation toward the other end of the casing, said arms comprising semi-circular channel members, cylindrical grinding rolls rotatably fitting in said arms in position to contact and roll upon the inner surface of said circular wall of the casing, and longitudinal mixing blades on the inner sides of said holder arms.

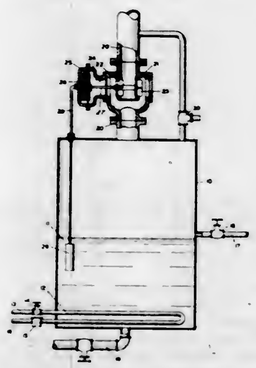
2,389,243
**JIG FOR USE IN DRILLING AND LIKE OPERATIONS**
Stanley Horace Tillett, Wanstead, England
Application March 10, 1943, Serial No. 478,716
In Great Britain October 14, 1942
8 Claims. (Cl. 77—62)



2. An adjustable bench drilling jig comprising a locating block for the work, a locating guide for the tool and a holder carrying the block and the guide, which block and which guide are both adjustable in the jig, one transversely thereof and the other longitudinally thereof, for the purposes of adjusting the relative positions of the tool axis of the guide and the work in position on the block longitudinally and transversely of the jig, the guide being movable lengthwise of at least one fixed screw incorporated in the jig longitudinally thereof and having threaded on to it clamping nuts which clamp the guide to the screw and thereby lock it in the adjusted position.

---

2,389,244
**METHOD AND APPARATUS FOR CONTROLLING VAPORIZATION**
Thomas H. Whaley, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 14, 1941, Serial No. 402,416
10 Claims. (Cl. 196—132)



7. The method of treating a distillable mixture of hydrocarbons to produce a liquid product less volatile than said mixture and having a predetermined vapor pressure which comprises passing said mixture into a closed vessel wherein during operation there is present a liquid phase and a vapor phase in substantial equilibrium with one



another, maintaining a confined control liquid in indirect heat exchange with said liquid phase, said control liquid having substantially the same vapor pressure as the desired liquid phase, withdrawing vapor from said vessel and from the system in an amount such that said pressure in said vessel is maintained substantially equal to the vapor pressure of said control liquid, and withdrawing the resulting liquid phase from said vessel as said liquid product.

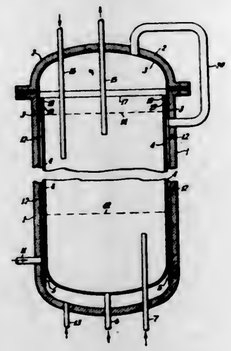
---

2,389,245
**PRINTING PROCESS FOR TEXTILES**
Alexis Wiazmitinow, Basel, Switzerland, assignor to Sandoz A. G., Fribourg, Switzerland
No Drawing. Application October 28, 1941, Serial No. 416,909. In Switzerland November 20, 1940
8 Claims. (Cl. 8—70)

1. A printing paste for textile of cellulosic nature, comprising an alkali metal salt of a sulfuric acid ester of a leuco-vat-dyestuff, an oxidising agent, an agent capable of splitting off acid and a catalyst and containing at least one volatile organic base which is stable towards the oxidising agent in absence of an inorganic acid, said printing paste allowing the production of deeper and fuller shades on the said textiles by a short steaming process as compared to the shades obtained by the known developing processes.

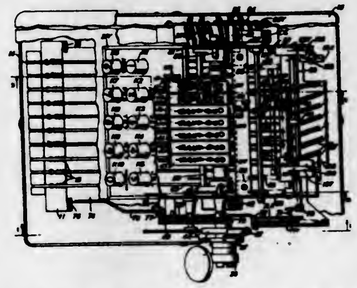
---

2,389,246
**REACTION PROCESS**
Warren Davey, Montclair, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application May 15, 1941, Serial No. 393,649
10 Claims. (Cl. 260—415)



1. In a countercurrent process for hydrolyzing fats with production of fatty acids and glycerine by bringing fat and water into contact with one another at a temperature above about 200° C. in an enclosed reaction chamber, the step of maintaining a substantially constant pressure in the upper part of said chamber, sufficient to maintain the reacting fatty material and water as liquid phases which comprises supplying water vapor at a pressure in excess of the pressure of saturated steam at the reaction temperature to a vapor space communicating with the upper part of the reaction chamber to form a vapor cushion.

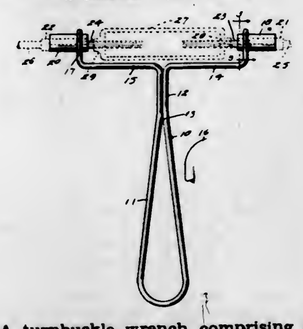
2,389,247
**TELEPHONE CALL TRANSMITTER**
Thomas L. Dowey, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1943, Serial No. 516,429
10 Claims. (Cl. 177—380)



1. In a call transmitter, a set of manually operable key members, a set of movable bars having means engaged by said key members to cause said bars to move longitudinally, a plurality of code wheels, normally tensioned retractile springs for actuating said wheels, other bars disposed at right angles to the first-mentioned bars for holding said wheels in normal non-operated position against the tension of said springs, means actuated by the operation of each of said key members to cause the operation of the last-mentioned bars for successively releasing said wheels to cause the movement thereof, and means carried by said wheels engaging means carried by the first-mentioned bars for limiting the movement of said wheels to position corresponding to the operation of said key members.

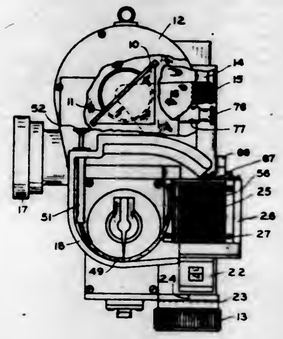
---

2,389,248
**TURNBUCKLE WRENCH**
James Herbert Dye, Bainbridge, Ga.
Application August 3, 1943, Serial No. 497,211
2 Claims. (Cl. 81—13)



1. A turnbuckle wrench comprising a handle formed of a rod bent upon itself to form a loop having forwardly convergent straight sides, parallel side by side extensions extending from the convergent ends of said sides, outwardly extending arms integral with and disposed at right angles to said extensions, forwardly extending rearwardly directed extensions integral with said arms, and rearwardly facing socket members carried by said latter extensions.

**2,389,249**
**CALCULATING DEVICE**
**Edward F. Flint, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application January 6, 1944, Serial No. 517,211**
**5 Claims. (Cl. 33—70)**



5. A device for determining the mean of the median values of at least two series of measurements of a quantity comprising operating means movable for making the measurements, said means including a rotatable shaft, a plurality of discs carrying indicia mounted on the shaft to move therewith in accordance with the movement of the operating means, means for locking the discs against movement with the shaft, means for seriately unlocking the discs as each measurement is made, means for determining the median value of a series of measurements by the relative positions of the indicia on the discs, an additional disc mounted on said shaft to turn therewith, means for locking the additional disc against movement with the shaft independently of the first named locking means, whereby the additional disc is movable to indicate the median value of the first series of measurements while the first named discs are locked and then released for determining the median value of the second series of measurements, a second additional disc carried by the shaft for registering the median value of the second series and means for determining the mean value of the median values of the two series of measurements by the relative positions of the additional disc and the second additional disc.

---

**2,389,250**
**ISOMERIZATION**
**Alfred W. Francis, Woodbury, N. J., and William H. James, State College, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**No Drawing. Application October 1, 1941, Serial No. 413,156**
**17 Claims. (Cl. 260—683.5)**

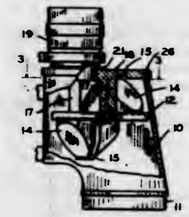
1. The process of converting paraffin hydrocarbons having at least four carbon atoms to isomers thereof which comprises contacting said hydrocarbons with a liquid catalyst consisting of anhydrous aluminum chloride substantially completely dissolved in not more than an equimolecular proportion of a substantially inert solvent therefor at a temperature above the melting point of the solution.

**2,389,251**
**PROCESS FOR REMOVING IMPURITIES FROM UNSATURATED HYDROCARBONS BY MEANS OF ORGANOMETALLIC COMPOUNDS**
**Raymond A. Franz, Wallingford, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application November 7, 1944, Serial No. 562,389**
**17 Claims. (Cl. 260—669)**

17. A process for refining a non-acetylenic unsaturated hydrocarbon having at least one non-cyclic double bond and associated in a mixture with at least one acetylenic compound having a hydrogen atom attached to a carbon atom of a triple bond comprising contacting said mixture with a Grignard reagent under temperature conditions from approximately 50° C. to approximately 150° C. and at subatmospheric pressure to react said acetylenic compound, and recovering said unsaturated hydrocarbon less contaminated with said acetylenic compound.

---

**2,389,252**
**OPTICAL INSTRUMENT**
**George B. Gallasch, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application February 17, 1943, Serial No. 476,173**
**8 Claims. (Cl. 88—33)**

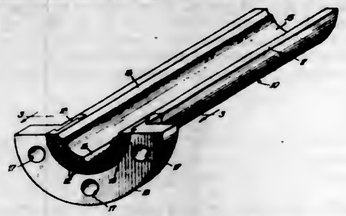


1. In an optical instrument of the type described, a body member; a cap for closing one end of said body member; an eyepiece carried by the cap; means for holding said cap in a predetermined position on said body member; a prism shelf; a plurality of prisms mounted on said shelf; a plurality of pillars carried solely by said cap and extending into said body member; means for mounting said shelf to said pillars, the end surfaces of said pillars cooperating with surfaces on said shelf to hold said shelf in a predetermined position within said body member whereby the prisms and eyepiece may be assembled as a unit and then positioned within the body member.

---

**2,389,253**
**BEARING**
**Thomas L. Gatke, Oak Park, Ill.**
**Application February 12, 1944, Serial No. 522,046**
**4 Claims. (Cl. 308—238)**

1. In a bearing of the type characterized by an elongated tubular barrel and a flange which extends radially from one end of the barrel, a barrel portion of a non-metallic molded bearing composition containing a centrally arranged bore, and a centrally apertured flange portion of metal through which the barrel portion extends and in which the barrel portion is rigidly molded, said flange portion extending inwardly to a point adjacent the bore in the barrel portion and extending outwardly to a point spaced substantially beyond the outer periphery of the barrel portion,

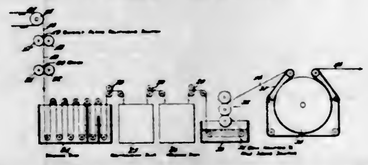


and being apertured beyond said outer periphery for the reception of attaching means.



---

**2,389,254**
**MANUFACTURE OF PAPER**
**Maurice A. Goldman, New Brunswick, N. J., assignor, by mesne assignments, to Saco-Lowell Shops, Biddeford, Maine, a corporation of Maine**
**Application September 27, 1940, Serial No. 358,583**
**2 Claims. (Cl. 8—119)**



1. Process of manufacturing paper comprising delivering, unsupported, to pressure rolls a web, having the weight of paper, namely, from about two hundred to about eighteen hundred grains per square yard, of substantially uniformly distributed unattached cellulosic fibers in a substantially dry state, there applying to the web a quickly acting gelatinizing solution adapted to react on cellulose to gelatinize the surface portions of the fiber, and immediately upon application of the solution thereto and before any substantial travel of the web in a wet state compacting the web by pressure, and thereafter suppressing the gelatinizing action of the solution in the web after passage of the web between the pressure rolls.

---

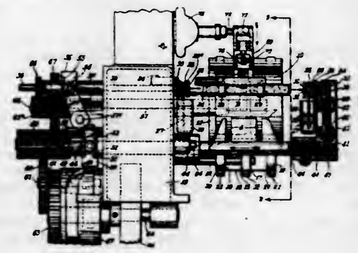
**2,389,255**
**CONNECTOR**
**Robert C. Graham, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey**
**Application October 22, 1941, Serial No. 415,995**
**2 Claims. (Cl. 173—340)**



1. A connector for joining and holding together the ends of two insulated electrical conductors each having a plurality of wires assembled within and covered by a sheath of insulating material which consists, in combination, of a unitary body portion apertured to provide two cylindrical chambers extending therethrough, each of which is adapted to hold therein firmly against lateral movement one insulated conductor, and a U-shaped metallic contact member mounted in said body portion with one leg disposed along a line intersecting the axis of one chamber and the other leg disposed along a line intersecting the axis of the other chamber, each of said legs being positioned and adapted to penetrate the walls of the body and the insulation of a conductor so as to contact the wires thereof and form a strong mechanical and low resistance electrical connection between insulated conductors disposed within said chambers respectively, the legs of the U-shaped member being shorter than the overall dimension of the body portion in the direction of said legs.

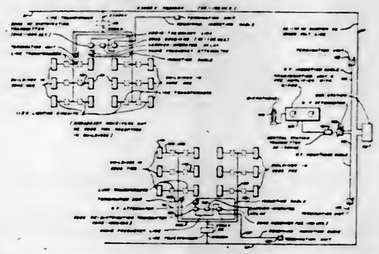
---

**2,389,256**
**BUNCH LOCATING AND TRANSFER MECHANISM**
**John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey**
**Application February 17, 1942, Serial No. 431,197**
**5 Claims. (Cl. 131—38)**



1. In a cigar locator mechanism, the combination with a pair of spaced locators arranged to engage the head end and tuck end respectively of a cigar bunch, of a pair of slidable members on which said locators are respectively supported, a double-arm operating lever, one of the arms of said lever being connected to one of said members and the other of its arms being connected to other of said members, means for simultaneously rotating said members in opposite directions together with said locators, and mechanism for reciprocating one of said members to cause the locator supported thereon to move inwardly and engage one end of the cigar bunch whereby the other member will be simultaneously operated through said lever to cause the other locator to engage the other end of the bunch, the arm of said lever which is connected to the member supporting the head end locator being longer than the other arm thereof to impart a greater inward movement to the head end locator and cause the latter to displace the bunch axially to bring the tuck end of the bunch into engagement with the tuck end locator at the inward position of the latter, said means including gears fastened on each of said members and movable therewith as said members displace said locators to and from the locating positions, and stationary elongated pinions meshing with and driving said gears, the length of said pinions being sufficient to maintain them in mesh with said gears throughout the entire reciprocating movement of said members, and a gear train meshing with said pinions and driving the locators supported from the said members in opposite directions.

2,389,257
**CARRIER WAVE SIGNALING SYSTEM**
**William S. Halstead, Huntington, N. Y., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Fort Wayne, Ind., a corporation of Delaware**
**Application December 13, 1943, Serial No. 514,095**
**10 Claims. (Cl. 179—2.5)**



1. In a restricted zone signaling system, means for generating modulated radio frequency signals, means for coupling said modulated radio frequency signals to an electrically conducting line, a receiver, means for coupling said electrically conducting line to said receiver, a second transmitter operating on a frequency different than said first transmitter, coupling means for re-impressing the received intelligence of said radio frequency signals on said second transmitter, means for coupling said second transmitter signal to an electrically conducting line for establishing a restricted range signaling zone, a second receiver disposed within the restricted signaling zone established by the second transmitter and adjusted to said second frequency, and means connected to the output of said last receiver for translating the intelligence of said second frequency.

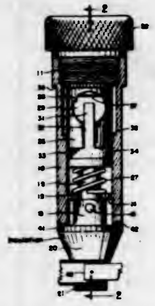
2,389,258
**HARNESS FOR CROSS-WEAVING**
**George Hilton, Northbridge, Mass., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application July 8, 1944, Serial No. 544,026**
**6 Claims. (Cl. 139—50)**



1. In harness for cross-weaving, in combination with means for raising the doup threads alternatively on one side or the other of their respective ground threads, of means actuated by the tension of the doup threads for automatically taking up the slack of the ground threads when the doup threads are raised.

2,389,259
**PUSH BUTTON**
**Albert F. Horlacher, Palatine, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware**
**Application November 27, 1942, Serial No. 467,089**
**8 Claims. (Cl. 74—503)**

1. In combination, an elongated shaft, a generally tubular sleeve encircling said shaft, a generally tubular casing encircling said sleeve, said sleeve and said casing both being shorter than said shaft and being so disposed with respect to the length of said shaft that each end of the shaft extends beyond the corresponding end of said sleeve and beyond the corresponding end of said casing, means for moving said shaft with



respect to said casing, means normally linking said sleeve to said shaft whereby said movement of said shaft imparts to said sleeve a certain movement with respect to said casing, said last means controlled conjointly by said sleeve and said casing for unlinking said sleeve from said shaft responsive to a predetermined movement of said sleeve relative to said casing.

2,389,260
**PRODUCING UNSATURATED COMPOUNDS**
**Hans George Kirschenbauer, Allendale, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware**
**No Drawing. Application July 22, 1942, Serial No. 451,976**
**11 Claims. (Cl. 260—405.6)**

1. A process which comprises heating a polyunsaturated fatty material having unconjugated double bonds with an amount of alkaline agent from about 1.005 to 1.25 times that required for saponification in an inert atmosphere at a temperature within the range of about 285° C. to about 350° C. but below the temperature of substantial polymerization of the resulting anhydrous product while maintaining the heated mixture in molten and substantially anhydrous condition, whereby a product containing polyunsaturated compounds having conjugated double bonds is formed, acidifying said product, recovering fatty acids from said acidified product and esterifying said fatty acids with alcohol.

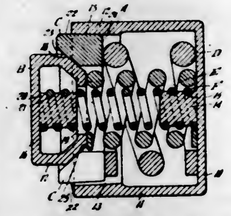
2,389,261
**FASTENING NUT**
**Joseph C. Lang, Pittsburgh, Pa., assignor to Bocjl Corporation, Pittsburgh, Pa., a corporation of Delaware**
**Application May 15, 1943, Serial No. 487,093**
**3 Claims. (Cl. 85—32)**



1. A fastener of the class described comprising a base member having an opening therethrough, a tongue on the base member bent outwardly therefrom, the free end of the tongue being elevated above the base and being directed toward the opening, a thread-engaging lip on the free end of the tongue, and a lip on the base member at the edge of the opening generally opposite the tongue, said lips having concave surfaces turned toward each other, the lip on the tongue being soft so as to receive threads, the other lip being smooth and hardened to resist the action of thread-cutting means.

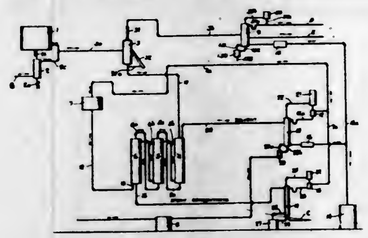


2,389,262
**FRICTION SHOCK ABSORBING MECHANISM**
**Edward H. Lehman, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application November 8, 1943, Serial No. 509,452**
**6 Claims. (Cl. 267—9)**



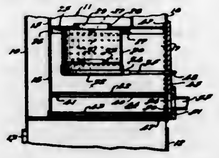
1. In a friction shock absorbing mechanism the combination with a friction casing; of a friction clutch slidably telescoped within the casing, said clutch including a wedge member and friction shoes surrounding said wedge member, said shoes having interlocking engagement with the wedge and casing to prevent relative rotation of the casing and wedge; and spring means within the casing yieldingly opposing inward movement of the clutch, including a coil spring element having the coils at the opposite ends thereof in threaded engagement with the casing and wedge member to anchor the wedge member to the casing.

2,389,263
**METHOD OF PRODUCING 2:3 BUTANEDIOL**
**Alfred J. Liebmann, Cincinnati, Ohio, and George de Becze, Lawrenceburg, Ind., assignors to Schenley Distillers Corporation, New York, N. Y., a corporation of Delaware**
**Application July 9, 1943, Serial No. 494,054**
**2 Claims. (Cl. 260—637)**



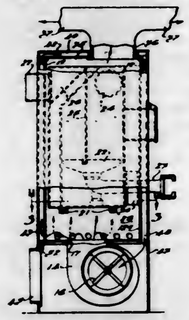
2. A method of extracting 2:3 butanediol from a beer, which consists in concentrating said beer substantially to the maximum concentration at which the concentrate remains liquid and freely miscible with a solvent for said 2:3 butanediol, the volume of said concentrated beer being substantially 10%–33⅓% of the volume of the original beer, flowing said liquid concentrate continuously in a predetermined direction through an extraction zone, continuously intermixing said flowing concentrate with said solvent in said zone while said solvent is continuously flowing in said zone in a direction reverse to the direction of flow of said concentrate, proportioning the ratio of the respective volumes of said concentrate and the intermixed solvent in said zone to produce a spent concentrate in liquid form and whose specific gravity exceeds the specific gravity of the solution of the 2:3 butanediol in said solvent, continuously separating said spent concentrate from said solution at respective opposite ends of said zone, the volume of said concentrated beer being at least substantially 33⅓% of the volume of the solvent in said zone, said solvent being selected from a class which consists of butanol, fusel oil, isopropyl acetate, and ethyl acetate.

2,389,264
**HEATING APPLIANCE**
**Allen P. Livar, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware**
**Application April 6, 1942, Serial No. 437,801**
**2 Claims. (Cl. 158—4)**



1. A heating appliance including an exterior jacket, a heat chamber forming member within said jacket and so spaced therefrom as to accommodate circulation of air to be heated therebetween, an upper horizontally disposed baffle extending across the chamber formed by said member and dividing the same into upper and lower sections, a perforated oil-vaporizing burner receptacle in said chamber lower section supported in suspended relation from said baffle, said baffle having an opening through which flame from said burner receptacle can enter the upper section of said chamber, said jacket and said member each having an opening therein arranged in registering relation and of such size and shape relative to said burner receptacle as to readily accommodate passage of the latter therethrough, a lower horizontally disposed baffle extending across the chamber at a level so spaced beneath said burner receptacle and above the bottom of the chamber as to form an air receiving compartment intermediate said receptacle and said bottom, said compartment registering with a portion of said registering openings, a portion of said upper baffle extending between said member and jacket adjacent said registering openings forming a closed partition between said chamber lower section and the space between said jacket and member, and a cover plate for the opening in said jacket having an air admitting opening therein so aligned with said compartment as to present a direct and substantially uninterrupted airflow path into said compartment, said lower baffle having an opening for the passage therethrough of air from said compartment to said burner receptacle to support combustion of the fuel, said appliance having an opening for admitting air to be heated to the space between said member and said jacket.

2,389,265
**RECIRCULATION INSULATED SPACE HEATER**
Allen P. Livar, Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 17, 1943, Serial No. 483,469
4 Claims. (Cl. 126—11)



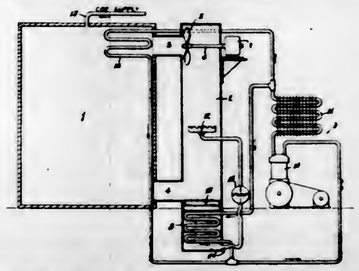
4. A space heater comprising an inner casing having top and side walls, a burner in the inner casing, duct means in said casing for conveying waste gases to a flue, a bottom deck for said casing formed with an air vent, a blower having its outlet connected to the vent to supply air to be heated around said duct means, said inner casing being formed with a warm air opening adjacent the top thereof, an exterior jacket around the inner casing have top and side walls spaced from the top and side walls respectively of the casing, partitions dividing the space between the casing and jacket side walls into a plurality of vertical compartments each communicating with the space between the casing and jacket top walls, said casing being formed adjacent said vent with apertures admitting air delivered by the blower to certain of said vertical compartments, another of said vertical compartments being in open communication with the inlet of the blower for returning air circulated through said compartments to said blower.

2,389,266
**BUOYANT SAFETY LIGHT**
George M. Marr, New York, N. Y.
Application June 5, 1944, Serial No. 538,853
8 Claims. (Cl. 9—8.3)



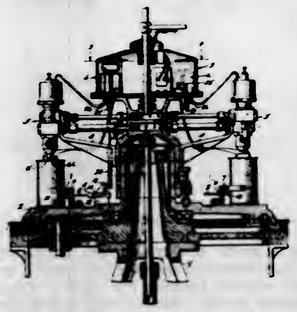
1. A buoyant safety light, including a hermetically sealed casing arranged to float partly submerged, a source of light carried by and visible above the upper end of the casing, a source of energy for said light source and service connections between the light source and energy source, and an automatic and adjustable air relief means carried by the casing above its normal submergence line to equalize air pressure internally and externally of the casing to avoid collapse of the housing under atmospheric changes.

2,389,267
**REFRIGERATING STORAGE APPARATUS**
Robert Matthei, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application December 19, 1941, Serial No. 423,575
1 Claim. (Cl. 62—104)



A refrigerating storage apparatus comprising a storage chamber having an intake at its top and an outlet at its bottom, a refrigerating coil arranged in the top of said chamber adjacent said intake, a cooling tower exterior of said chamber having a delivery outlet communicating with said chamber inlet and an intake communicating with the outlet of said chamber, a cooling coil arranged in the bottom of said tower, a collection pan mounted above said cooling coil, and spraying means located in said tower above said cooling coils, means for circulating an aqueous solution through said spraying means and over said cooling coils, and blower means arranged in the top of said tower for causing a circulation of refrigerating atmosphere through said tower and through said refrigerating chamber.

2,389,268
**SYSTEM FOR CONTROLLING THE FLOW OF LIQUID INTO CONTAINERS**
Ronald B. McKinnis, Winter Haven, Fla.
Application February 26, 1943, Serial No. 477,304
6 Claims. (Cl. 226—127)



1. A system for controlling the filling of oxidizable liquid into a container under non-oxidizing conditions comprising an electrically opened valve for the liquid and an electrically opened valve for an inert gas, a normally open relay for supplying current when closed to open the gas valve, delayed action means operable upon closing of the relay to supply current to open the liquid valve, circuit closing means momentarily operated by movement of the container to filling position to complete an electric circuit to initially close the relay, supplementary circuit closing means for maintaining the relay closing circuit, and circuit breaking means for opening the relay closing circuit to allow the valves to close.

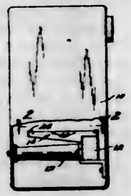


2,389,269
**SURGICAL FIXTURE**
William L. Mermis, Youngstown, Ohio
Application July 31, 1944, Serial No. 547,392
3 Claims. (Cl. 128—1)



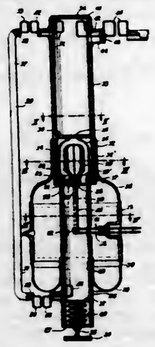
1. A surgical fixture for use in supporting a human patient during the performance of surgical procedures and examinations, said fixture comprising a padded frame having a head-supporting section and an end section adapted to fit beneath the back and shoulder blades of the patient and being connected to the head-supporting section by an upwardly arched neck section, said end section being provided with a relatively enlarged aperture, a back-supporting member swingably mounted in the aperture for supporting the shoulders of the patient at different selected angular positions with respect to the head-supporting member, and manually releasable means for holding the back-supporting member in any one of its several positions of adjustment.

2,389,270
**GAS BURNER**
Russell L. Miller, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application July 20, 1942, Serial No. 451,571
5 Claims. (Cl. 158—104)



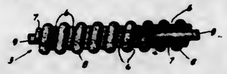
1. A gas burner comprising an inspirator tube having its axis lying in a horizontal plane, a rectilinear plenum chamber having opposite side walls disposed in right angular relation to the longitudinal axis of said tube, one of said side walls being attached to the egress end of said inspirator tube, said chamber having a portion thereof projecting above the top of said inspirator tube, and a plurality of parallel gas distributing troughs attached to the upwardly projecting portion of said plenum chamber and having their upper edges lying in a horizontal plane parallel to and above the axis of said inspirator tube, each of said troughs having a first portion thereof overlying said chamber and a second portion thereof extending laterally from said one side wall of said chamber, said plenum chamber having slots in said one side wall and adjacent portion of the top wall thereof above said inspirator tube in communication with said first and second trough portions.

2,389,271
**TANK CIRCUIT**
Ilia Emmanuel Mouromtseff, Montclair, and George M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 20, 1941, Serial No. 398,910
13 Claims. (Cl. 250—27.5)



1. A discharge device comprising a cathode, a grid and an anode, said grid having a disc secured thereto, said anode having an extension forming a closed-end hollow body resonator, said disc located in an opening in a wall of said hollow body resonator.

2,389,272
**BUTTONHOLE CONSTRUCTION**
Jacob Neuman, St. Louis, Mo.
Application October 1, 1943, Serial No. 504,571
8 Claims. (Cl. 24—202)

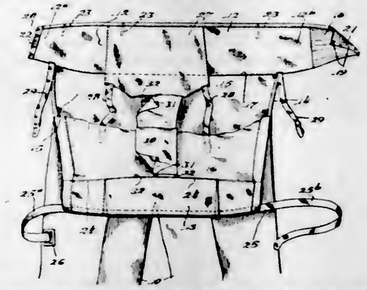


1. A buttonhole construction comprising a piece of material having a buttonhole therein, a coarse foundation thread extending around the edge of said buttonhole and having a multiplicity of circumferentially grooved portions therein, and a thin buttonhole thread extending over said foundation thread and seating in the grooved portions thereof and securing the same to said material.

2,389,273
**SLACKS**
Mary E. Novak, Chicago, Ill.
Application February 26, 1944, Serial No. 523,963
1 Claim. (Cl. 2—227)

Slacks comprising, in combination, leg portions secured together by a crotch seam, the tops of said leg portions being cut downwardly at the sides to provide plackets dividing the top of the

slacks into front and rear sections, a yoke stitched to the top of the front section along a curved line extending upwardly toward the sides, said yoke being of sufficient width in front to serve as an abdominal support as well as a top front section for the slacks, said yoke also having ends tapered to narrower width than the front portion thereof, one of said ends including elastic and being adapted to be connected to the other of said ends to complete said abdominal support, a rear yoke of substantially the same width adjacent the



plackets as the front yoke and stitched to the top of the rear section in position for normal lateral alignment with the front yoke, belt loops secured to the opposite sides of the top edge of the front yoke at positions forwardly of said plackets, said rear section and yoke providing a drop seat normally extending upwardly to cover the extended ends of the front yoke and having a belt adapted to pass through said belt loops and hold the rear section in the upward position with the sides thereof overlapping the sides of the front section

---

2,389,274
**AIRCRAFT CONTROL SYSTEM**
**Earle S. Pearsall, Jr., Hollywood, and Robert Richolt, Tujunga, Calif., assignors to Lockheed Aircraft Corporation, a corporation of California**
**Application February 4, 1941, Serial No. 377,290**
**14 Claims. (Cl. 121—41)**

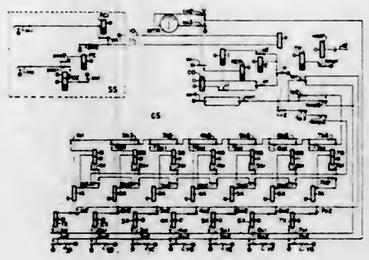


5. In an aircraft control system, a balanced four-way valve comprising a casing, a piston valve arranged to reciprocate within said valve casing, a source of hydraulic fluid under pressure, a conduit from said source to a centrally located port in said valve casing, a servo-cylinder having a movable piston adapted for the operation of a movable aircraft element, fluid conduits connecting the ends of said servo-cylinder with feed ports in said valve casing normally covered by said piston valve in its neutral position, fluid spaces within said valve casing between each end and the end faces of said piston valve adapted to contain an initial supply of hydraulic fluid, fluid conduits interconnecting said spaces with the adjacent conduits to the said ports closed by said piston valve, and means for applying manual control forces to said piston for the hydraulic operation of said movable element, such control forces acting to force an initial supply of hydraulic fluid into the servo-cylinder prior to the uncovering of said feed ports.

9. In a power booster system for aircraft including a source of fluid pressure, a control valve, a fluid motor, a control surface operably connected to said fluid motor, and supply and return conduits connecting said pressure source through said control valve to said fluid motor, a gust lock comprising a bypass interconnecting the supply and return conduits between said source and said control valve, a metering valve in the return line disposed between the control valve and said bypass connection and means operable to cut off the pressure source at said bypass and to direct the reaction pressure flow developed in said fluid motor by gust loads acting on said control surface, through said metering valve.

---

2,389,275
**TELEMETERING ARRANGEMENT**
**Thomas Robert Rayner, Wallasey, and George Arthur Burns, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application August 14, 1942, Serial No. 454,772**
**In Great Britain November 20, 1941**
**14 Claims. (Cl. 177—351)**

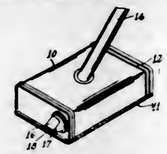


1. In combination with a system wherein energy is transmitted at a variable rate, a telemetering circuit, means controlled by said transmission of energy for transmitting electrical impulses over said circuit at a rate depending upon the rate of said transmission of energy, an indicating instrument, means associated with said circuit for receiving said impulses and causing said instrument to display an indication depending upon the number of impulses which have been received during an elapsed predetermined interval of time, means for maintaining said display unchanged throughout a subsequent invariable interval of time regardless of the number of impulses transmitted over said circuit during such subsequent interval, and means operated automatically at the end of said subsequent interval of time to wipe out said display.

---

2,389,276
**CONTAINER AND APPLICATOR FOR WAX OR THE LIKE**
**Abraham T. Rogovin, New Haven, Conn.**
**Application December 14, 1943, Serial No. 514,286**
**2 Claims. (Cl. 91—25)**

1. A container for wax or the like, having a flat face and an applicator secured upon said face, a handle detachably secured to said container at a side opposite that upon which the applicator is secured, said container being provided with outlet means on an end wall thereof joining said faces, said outlet means being normally closed, and



means engageable with the floor or the like for opening said outlet means.

---

2,389,277
**ELECTRONIC DEVICE**
**Carl H. Scullin, East Orange, and Leo C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 15, 1944, Serial No. 540,370**
**9 Claims. (Cl. 250—27.5)**



1. In an electron device, a helical electron-emissive filament, a cooperating electrode, a supporting stem for said filament, and means for restricting distortion of said filament comprising an insulating member mounted on said stem, said member having a plurality of apertures disposed toward its periphery, and means extending into said apertures and restrainingly engaging said filament intermediate its ends.

---

2,389,278
**FASTENING MEANS**
**John W. Simmons, Cleveland Heights, Ohio**
**Application July 29, 1944, Serial No. 547,199**
**5 Claims. (Cl. 85—32)**

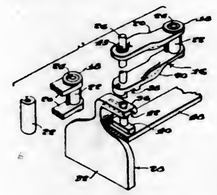


1. A fastener comprising a base, a loop extending from an end of the base inwardly over the base and constituting an element contacting portion, the base having an aperture for the passage of an entering element, said contacting portion being perforated to produce tooth-like edges for engagement with one side of an entering element projected through said aperture, and a second element contacting portion for engagement with the other side of said element.

---

2,389,279
**CONVEYER**
**Alfred De Los Sinden, Aurora, Ill., assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts**
**Application July 27, 1944, Serial No. 546,809**
**7 Claims. (Cl. 198—176)**

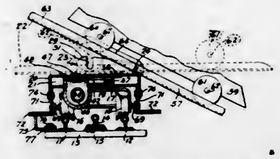
1. A conveying element comprising a tension element including a plurality of pivotally connected chain links each having a hub and a pair of spaced arms adapted to embrace the ends of the hub of an adjacent link, one of said arms having a groove, a plurality of individual spaced conveying flights connected to said links, each



flight having a connecting arm forming a tongue adapted to be received in said groove formed in one arm of each link, and a plurality of pins pivotally connecting said links and detachably retaining the parts in assembled relation.

---

2,389,280
**CURRENT COLLECTOR FOR TOY ELECTRIC ROLLING STOCK**
**Richard G. Smith, Amsterdam, N. Y.**
**Original applications May 28, 1940, Serial No. 337,625, now Patent No. 2,373,148, dated April 10, 1945, and October 14, 1942, Serial No. 461,947. Divided and this application June 26, 1943, Serial No. 492,433**
**8 Claims. (Cl. 246—195)**



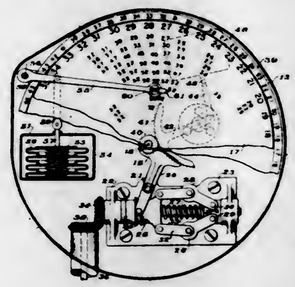
1. Current collecting equipment for wheeled toys, including the combination with a track and a wheeled toy adapted to travel therealong, of an electrically conductive current feeder stationed beside and elongated in the direction of said track, a support element carried by said toy, and a flexible spring coil comprised of loops of resilient helically wound conductive wire, said coil having one of its ends anchored to said support element and having a freely flexible portion of its length projecting from said support element in such position that the convexly curved wire loop surface of the outside of said coil wipes yieldingly against said current feeder as the toy travels along said track.

---

2,389,281
**INSTRUMENT FOR INDICATING PRESSURES SUITED TO VARIOUS SPEEDS**
**Allen C. Staley, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application May 23, 1942, Serial No. 444,195**
**8 Claims. (Cl. 73—112)**

4. In an indicating instrument for aircraft having a supercharged engine, a movable dial having rows of figures thereon for indicating the maximum supercharger discharge pressure at which the supercharger may be operated without stalling, a cover for the dial, said cover being

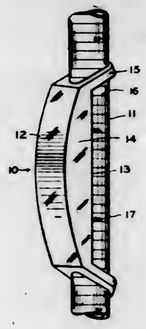
formed with an aperture through which one of the rows is visible, means driven in timed relation to the speed of the supercharger for moving said dial to various positions corresponding to different supercharger speeds, whereby one of the



rows of figures is visible through the aperture at any one time, a pointer mounted to sweep across the aperture, said pointer having an opening formed therein to encircle one of the figures of the exposed row, and altitude responsive means for controlling the position of the pointer.

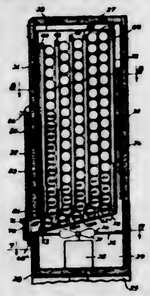
---

**2,389,282**
**MAGNIFYING DEVICE**
**Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application January 13, 1944, Serial No. 518,067**
**3 Claims. (Cl. 88—39)**




2. A magnifying device comprising relatively long, narrow lens means and means for adjustably supporting the lens means on an elongated body, said last-named means comprising a pair of normally diverging arms extending from the respective ends of the lens means, each of said arms having an aperture through which the body is passed, the arms being yieldable whereby they may be flexed into substantially parallel relation to receive the body through the apertures, the resilience of the arms normally urging the arms into diverging relation whereby the walls of the apertures are urged into frictional engagement with the body to hold the device in adjusted position on the body.

**2,389,283**
**MACHINE FOR VENDING BOTTLES**
**James E. Stewart, Rye, N. Y.**
**Application September 8, 1941, Serial No. 409,939**
**10 Claims. (Cl. 312—36)**



1. In a vending machine, a casing, means defining a vertical column therein adapted to carry a stack of horizontally disposed bottles, a belt associated with said column and including at least a portion lying within said column, non-metallic tabs secured to said portion and adapted to extend between adjacent bottles, thereby preventing the latter from contacting each other, means for delivering bottles from the bottom of said column to a point external to said casing, said belt being advanced solely by the vertical weight of said bottles.

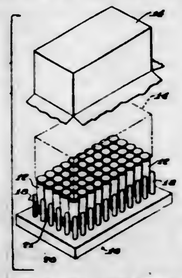
---

**2,389,284**
**SELECTIVELY HYDROGENATED TALL OIL AND METHOD OF MAKING SAME**
**Joseph Abrahm Valentine Turck, Jr., and John Ross, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware**
**No Drawing. Application July 5, 1940, Serial No. 344,066**
**11 Claims. (Cl. 260—97.5)**

1. The process of saturating olefinic bonds of unsaturated fatty acids in tall oil which comprises treating tall oil with hydrogen at a pressure of at least 50 pounds per square inch in the presence of a nickel catalyst and at a temperature above 50° C. but below 135° C.

---

**2,389,285**
**METHOD OF PACKING BULLETS**
**Robert William Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts**
**Application March 19, 1943, Serial No. 479,683**
**2 Claims. (Cl. 86—47)**

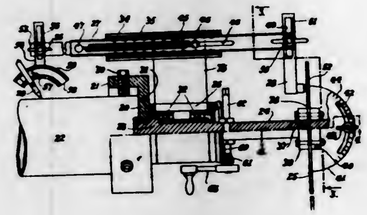


1. In a method of packing tapered bullets in a carton, the steps comprising arranging the bullets vertically with their smaller pellet ends pointing downwardly and with the peripheral surfaces of their larger cartridge ends in contacting engagement to form a compact mass of bullets, holding the bullets in such position by supporting them intermediate their tapered sides while maintaining the cartridge ends in peripheral engagement, placing over the bullets an inverted carton of a size such as to snugly fit the mass of bullets, and subsequently inverting the mass of bullets and the carton to effect disposition of the bullets in the carton.



---

**2,389,286**
**APPARATUS FOR MARKING OR CUTTING PIPES**
**Wilfrid Weatherston Watkins, Helensburgh, Scotland**
**Application January 6, 1944, Serial No. 517,259**
**In Great Britain January 13, 1943**
**11 Claims. (Cl. 33—21)**

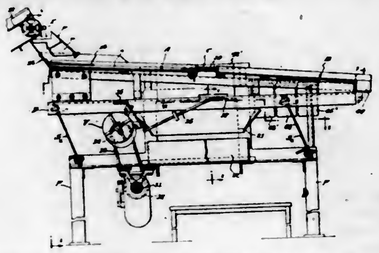


1. A portable apparatus for forming an oblique end on a pipe comprising a central stator to be fixed to the end portion of the pipe and to extend away from the pipe coaxially therewith and a rotor journalled on said stator for rotation about the common axis of the stator and pipe, said stator having means for affixing it to the pipe end portion and a swash-plate track which encircles and is angularly adjustable on said stator so as to be in a plane of predetermined obliquity to said axis, and said rotor having an axially movable holder which in rotation with said rotor engages said track so as to move axially in conformity with the obliquity thereof and a former held by said holder in working relationship with the pipe so as to perform thereon the required oblique end forming operation under the control of said track and holder in the rotation of the rotor.

---

**2,389,287**
**ARTICLE INSPECTION METHOD AND MACHINE**
**James B. Whitmore, Bloomfield, William Makenny, Mountain View, and Frank A. Newcombe, Nutley, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 21, 1942, Serial No. 439,892**
**7 Claims. (Cl. 198—33)**

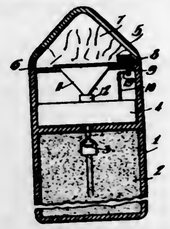
1. A lamp base inspection device comprising a pair of pans, means supporting the pans in end spaced relation in a plane inclined to the horizontal, the upper one of said pans being provided with a plurality of runways extending in the direction of inclination, and a plurality of helical guides, one for each said runway, bridging the space between said pans to receive bases from the upper pan while reversing their positions and to convey the same to the lower pan, and means to vibrate said pans and guides at a frequency



effective to impart a relatively rapid rate of movement to said bases.

---

**2,389,288**
**AUTOMATICALLY DETONATED PROJECTILE**
**Leslie J. Anderson, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware**
**Application April 30, 1942, Serial No. 441,081**
**6 Claims. (Cl. 102—70.2)**



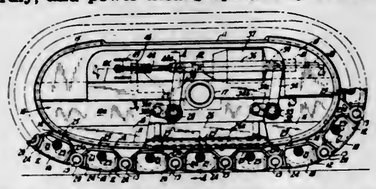
1. A projectile including an explosive charge, a detonator for said charge, a timing mechanism, and a parachute all enclosed within said projectile, means responsive to predetermined operation of said timing mechanism for releasing said parachute to support said projectile in space, means disposed within said projectile for deriving energy in response to the impingement thereon of sound waves, means for applying said energy to said detonator for actuating said detonator, and means responsive to predetermined operation of said timing mechanism and operable subsequent to said release of said parachute for selectively conditioning said sound responsive means and said energy applying means for actuating said detonator.

---

**2,389,289**
**BRAKE FOR CRAWLER TRACKS**
**Raymond Q. Armington, Shaker Heights, Ohio, assignor to The Euclid Road Machinery Co., Euclid, Ohio, a corporation of Ohio**
**Application February 18, 1944, Serial No. 522,886**
**1 Claim. (Cl. 305—9)**

In combination, a frame having guide rail means substantially parallel to the ground, an endless crawler track on said frame having a lower run extending between said rail means and the ground, said track comprising a plurality of shoes hinged together, each of said shoes having a roller engaging said rail means, a pair of substantially parallel brake shoes carried by said frame above said lower run of said track, said brake shoes being adapted to engage the shoes

of said track on opposite sides thereof, lever means for moving each of said brake shoes downwardly, and power means operatively connected



with said lever means for actuating both of said brake shoes coincidentally in track-engaging direction.

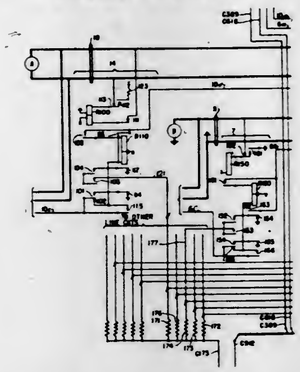
---

2,389,290

**TELEPHONE SYSTEM**

Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware

Application October 9, 1941, Serial No. 414,258
9 Claims. (Cl. 179—17)



1. In a mixed service connector having access to multiparty lines arranged for selective signaling and to a group of trunks, means for selecting said group of trunks, means for thereafter automatically testing said trunks in succession until an idle trunk is found, and means operative while said last-named means tests for an idle trunk for selecting a signal for transmission over the idle trunk.

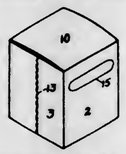
---

2,389,291

**CARTON WITH REMOVABLE LINER**

Robert Morris Bergstein, Cincinnati, Ohio, assignor to Robert Morris Bergstein and Frank David Bergstein, trustees

Application June 12, 1944, Serial No. 539,901
13 Claims. (Cl. 229—14)




1. A package comprising an outer paperboard carton and an inner tubular flexible liner, said carton having main body walls and closure means at both ends whereby it is capable of wholly containing said liner and contents packed therein, said liner being in adhesive union with walls of said carton so that the act of erecting the carton results in similarly erecting a portion of the liner, the areas within which said liner is adhered to walls of said carton being less in extent in said walls than the areas of the walls themselves, and the said areas of adhesive union being demarked in said walls by lines for severance, whereby by severing said areas, said liner may be removed from said carton with said areas of paperboard still in adhesive union with said liner.

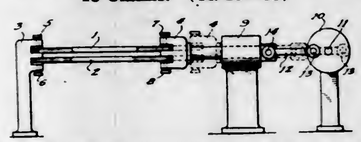
---

2,389,292

**PREPARATION OF PROTEIN COMPOSITIONS AND MASSES HAVING IMPROVED PHYSICAL CHARACTERISTICS**

Johan Bjorksten, Chicago, Ill.

Application February 8, 1945, Serial No. 576,736
18 Claims. (Cl. 18—48)



1. The method of improving the physical characteristics of a protein mass which comprises alternately stretching and relaxing said mass at least about 20 times while said mass is under the influence of a tanning agent.

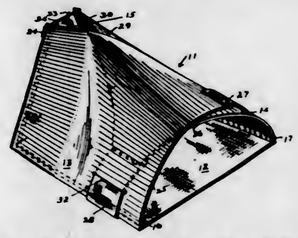
---

2,389,293

**INHALANT HOOD**

John A. Blosser, Oakland, Calif.

Application July 12, 1943, Serial No. 494,323
8 Claims. (Cl. 128—140)



1. In an inhalant hood, a quadrilateral base member arranged for the supported disposal of the head portion of a person's body longitudinally thereover to extend from the foot end thereof, a flat head-wall member extending upwardly from the head end of the base member, normally flat side-wall members of resiliently elastic sheet material extending along and upwardly from the sides of the base member, said side wall members having their head ends sealedly connected to and along the sides of the head-wall member and being flexed into mutually lapped relation over said head portion of the person's body to provide a generally fitted engagement of their foot ends therewith whereby the base and head and side members are cooperative to define a space enclosing said head portion of the person's body, said space being effectively gas-tight at its sides and bottom and having a top opening defined by the upper edges of the head and side walls members.

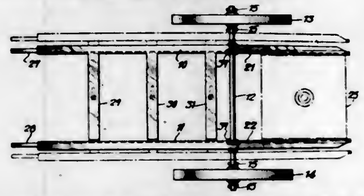


2,389,294

**CARBOY TRUCK**

Edward W. Burke, Mahopac, N. Y., assignor to Pulmosan Safety Equipment Corporation, Brooklyn, N. Y., a corporation of New York

Application November 13, 1943, Serial No. 510,232
1 Claim. (Cl. 280—34)



A carboy truck which comprises an axle, a pair of wheels mounted on said axle, a pair of side rails of angle cross-section positioned in spaced position above and at right angles to said axle with a downwardly extending flanges, said flange being slit above said axle and said side rails being bent upwardly at said slit, a plate welded to the vertical flanges of said side rails in a position spanning said slit to form slidable supports for said side rails on said axle, cross beams extending between and connecting said side rails at one side of said axle, said cross beams each comprising a channel iron welded to the vertical flange of one side rail and extending at a right angle thereto, a plate welded to and extending at a right angle from the opposite side rail into the space between the flanges of said channel iron, a plate welded to the lower edges of the flanges of said channel iron to enclose said plate and a screw threaded through said closing plate.

---

2,389,295

**EARRING CLIP**

Michael Chernow, New York, N. Y.

Application June 2, 1943, Serial No. 489,327
2 Claims. (Cl. 63—14)



1. An earring clip comprising a unitary blank of soft metal having a strip with a rounded U-turn, said strip having opposed bowl-shaped enlargements at its opposite ends and serving for clamping an earlobe therebetween, substantially the entire length of said strip between said enlargements being of I-beam cross-section, thereby to impart resiliency and stiffness thereto.

---

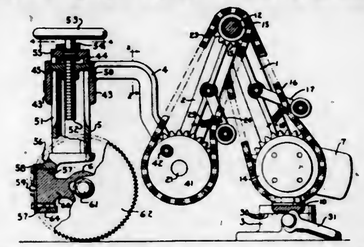
2,389,296

**TOOL SUPPORT**

Everett E. Crane, Seattle, Wash.

Application July 7, 1941, Serial No. 401,350
20 Claims. (Cl. 143—46)

13. Mechanism of the character described comprising a base, a supporting arm pivoted at one end to said base, a supported arm pivoted at one end to the other end of said supporting arm and having its other end free, a sprocket wheel fixed to said base in axial alinement with the pivot between the latter and said supporting arm, a sprocket wheel fixed to said supported arm in axial alinement with the pivotal connection between said arms, and a sprocket chain connecting and cooperating with said sprocket wheels to constrain said arms to swing simulta-



neously and to cause the free end of said supported arm to traverse a straight line.

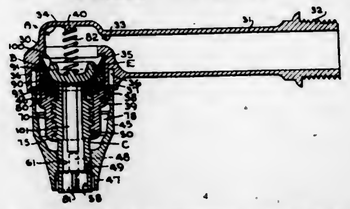
---

2,389,297

**VALVE**

Vasco Crevatin, Gilio Crevatin, Waldemar Crevatin, and Mario Crevatin, Sao Paulo, Brazil

Application August 25, 1943, Serial No. 499,980
3 Claims. (Cl. 251—8)



1. In a valve, a valve element including a valve head and a depending valve stem, a housing including an upper stationary portion provided with a downwardly-opening circular groove; means for actuating the valve element, including a rotatable housing portion, having an open lower end, an upper cylindrical extension disposed within said groove, spaced from the side walls thereof, and spaced from the bottom of said groove when the valve is closed, and a hollow valve element support extending upwardly through and secured to said rotatable housing portion, with the head of said valve element disposed upon the upper end of said support and said stem extending into the hollow of said support and free of attachment with and spaced from said support, said support having exterior screw threads an upper opening in communication with the interior of said upper housing, when said valve is open, and a lower opening into said open lower end; a depending, hollow stationary carrier secured to said upper stationary housing, disposed within and spaced from the walls of said rotatable housing and provided with interior screw threads, cooperating with said first-named screw threads, and a valve seat supported upon the upper end of said carrier and provided with a bevelled valve head-receiving face.

---

2,389,298

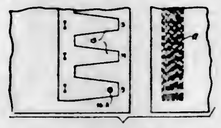
**APPAREL FASTENER**

Robert Ellis, Belleville, N. J.

Application March 27, 1943, Serial No. 480,749
2 Claims. (Cl. 2—96)

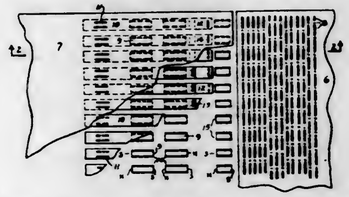
1. An apparel closure comprising two oppositely disposed flexible flaps of an article of wearing apparel, one or more permanent mag-

nets attached to the margin of one of said flaps, and a plurality of armatures attached to the margin of the opposite flap, said armatures consisting of substantially thin flexible magnetically attractive wires or strips arranged parallel to said margin of said opposite flap and slightly separated from each other.



---

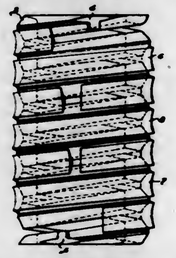
**2,389,299**
**APPAREL CLOSURE**
**Robert Ellis, Belleville, N. J.**
**Application March 22, 1944, Serial No. 527,624**
**10 Claims. (Cl. 2—96)**



1. In a magnetic apparel closure, an article of apparel provided with an inner flap and an outer flap, means for laying the margin of the outer flap over the margin of the inner flap, an armature attached to the margin of the inner flap, an elastic band having one end attached to the margin of the outer flap, and a permanent magnet attached to the other end of said elastic band, said flaps being held together in closed position and causing said elastic band to stretch when said permanent magnet is contacted with said armature.

---

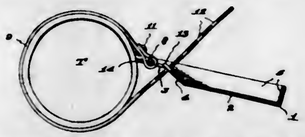
**2,389,300**
**FRICTION SPRING**
**Louis E. Endsley, Pittsburgh, Pa., assignor to The Frost Railway Supply Co., Detroit, Mich., a corporation of Michigan**
**Application April 8, 1944, Serial No. 530,139**
**2 Claims. (Cl. 267—9)**



1. A friction spring structure comprising an inner coil and a plurality of outer coil sections threaded on the inner coil, in end-to-end relation, the convolutions of the outer coil sections having their sides partially interposed between the sides of the convolutions of the inner coil, and a plurality of the convolutions of the inner coil, adjacent to each end thereof, being of gradually increasing pitch toward the extremities of the coil.

---

**2,389,301**
**SCREW-TOP JAR WRENCH**
**Charles Escher, Jersey City, N. J.**
**Application October 18, 1944, Serial No. 559,203**
**2 Claims. (Cl. 81—3.43)**



1. A screw top jar wrench comprising a handle having an outer end portion constituting a hand grip and an inner end portion provided with a pair of spaced apart openings forming between them a transversely extending attaching bar, a post rigid with the handle and extending into the opening which is contiguous to the hand grip, and a band attached at one end to said bar with its other end normally free and unattached and provided with longitudinally spaced apart perforations adapted for selective engagement with said post, the opening at the other side of the bar being spaced from the inner end of the handle to form a nose extending parallel to said attaching bar and adapted to engage with the outer surface of a jar top when the band is wrapped about the jar top and engaged with said post, whereby said nose will force said bar and post in a direction away from the center of the jar top as the handle is moved from non-radial to substantially radial relation to said jar top.

---

**2,389,302**
**TREATMENT OF INSECT-DAMAGED WHEAT**
**Cyril Harry Evans, Cleethorpes, England, assignor to Spillers Limited, London, England, a British joint-stock corporation**
**No Drawing. Application September 29, 1942, Serial No. 460,172. In Great Britain September 26, 1941**
**6 Claims. (Cl. 99—91)**

1. A process for counteracting the harmful effects of the presence in wheat of grain damaged by *Hemiptera* of the genera Aelia and Eurygaster, consisting in adding to the wheat in a condition selected from the granular and milled conditions of the wheat an amount of sodium chlorite exceeding 1 gram per sack of 280 lbs.

---

**2,389,303**
**LETTERING-GUIDE HOLDER**
**Gustav J. Forslund, Chicago, Ill.**
**Application April 15, 1944, Serial No. 531,200**
**6 Claims. (Cl. 33—75)**

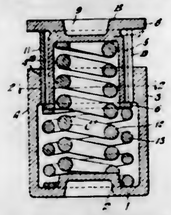


1. A holder for an elongated letter guide containing openings distributed lengthwise of the same comprising an arm, means at one end of the arm to hold the letter guide crosswise of the arm for sliding movements in the direction of the length of the guide, a pin extending through the arm and having at the lower end a point to penetrate a drawing board or the like, a bearing sleeve on the arm for the pin, and means yieldingly to hold the pin in the sleeve and to release the same when a moderate force acts lengthwise on the pin.

---



**2,389,304**
**SHOCK ABSORBER**
**William A. Geiger, Chicago, Ill., assignor to William P. Sidley, M. F. Back, Albert P. Withall, Edwin C. Austin, and George A. Johnson, all of Chicago, Ill., and Alice T. Miner, Chazy, N. Y., trustees of the William H. Miner Foundation**
**Application October 13, 1943, Serial No. 506,083**
**3 Claims. (Cl. 267—9)**



1. The combination of a friction casing open at one end and having an interior, longitudinally extending, annular friction surface at said open end, a plunger movable lengthwise within the casing in concentric relation thereto, said plunger having laterally projecting flanges at the inner and outer ends thereof, a longitudinally disposed metal tubular spring member split lengthwise and expanded by its own resiliency against the annular friction surface of the casing, said member being embraced between said flanges of the plunger so as to be moved in unison with the plunger and having direct frictional engagement with the annular friction surface of the casing, and springs within the casing opposing inward movement of the plunger.

---

**2,389,305**
**GLASS COMPOSITION**
**Raymond W. Goodwin, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York**
**No Drawing. Application September 25, 1943, Serial No. 503,836**
**3 Claims. (Cl. 106—53)**

1. A glass composition suitable for sealing to iron having substantially the following composition:

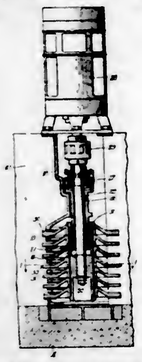
| | Per cent |
|---|---|
| $SiO_2$ | 40 to 48 |
| PbO | 32 to 38 |
| $Al_2O_3$ | 1 to 8 |
| $Li_2O$ | 1 to 2.5 |
| $Na_2O$ | 2 to 5 |
| $K_2O$ | 12 to 17 |

the total alkali oxides being not over 19 per cent.

---

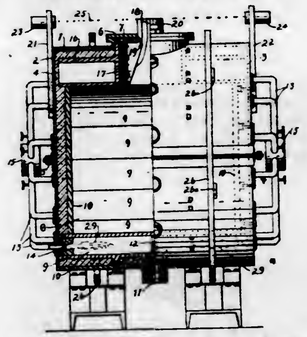
**2,389,306**
**SEWAGE COMMINUTOR**
**Walter H. Green, Batavia, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware**
**Application October 4, 1943, Serial No. 504,979**
**7 Claims. (Cl. 210—152)**

1. A sewage solids cutting and straining device comprising a semi-cylindrical grid adapted to be interposed across a flowing stream of sewage, a plurality of horizontal slots extending circumferentially of said grid, a plurality of rotatable discs extending through said slots to the upstream side of said grid, a prime mover connected to said discs, cutting teeth on the peripheries of said discs, a stationary cutter bar adjacent to the peripheries of said discs, and notches in said cutter bar interposed in the path of travel of said cutting teeth.



---

**2,389,307**
**MAGNESIUM MELTING FURNACE**
**Henry M. Griffoul, San Jose, Calif.**
**Application May 13, 1944, Serial No. 535,525**
**3 Claims. (Cl. 263—22)**



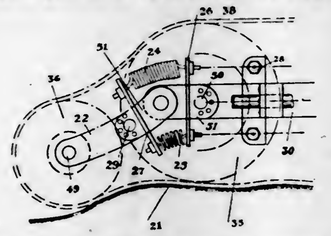
1. A hollow cylindrical drum and means for imparting a rolling movement thereto, the inner cylindrical wall of said drum being formed of a series of juxtaposed heating units, each unit having a fuel discharge nozzle in each end and an exhaust leading outwardly from its center.

---

**2,389,308**
**CONVERTIBLE WHEEL ENDLESS DRIVE MECHANISM**
**Collins Denny Grove, Joliette, Quebec, Canada**
**Application April 19, 1943, Serial No. 483,707**
**1 Claim. (Cl. 305—9)**

A convertible wheel endless belt mechanism comprising a frame formed of side members, cross members joining said side members together, extension members having a plurality of link rods connected to one another and to said side members, spring brackets secured to said link rods, tension and compression springs secured to said

spring brackets, a plurality of shafts journalled in said side members and in said link rods and extending therebeyond, vehicle wheels of the same diameter secured to the shafts of said side mem-



bers, vehicle wheels of another diameter secured to the shafts of said link rods, and an endless belt adapted to engage with the vehicle wheels of said side members and said extension members.

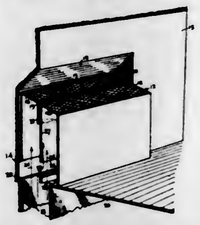
---

**2,389,309**
**PROCESS FOR REGENERATING EXHALED AIR**
**Nicolas Herzmark, Indianapolis, Ind.**
**No Drawing. Application February 2, 1942, Serial No. 429,347. In Great Britain December 3, 1941**
**10 Claims. (Cl. 23—4)**

1. The method of regenerating exhaled air, containing carbon dioxide and water vapor, to render it fit for breathing, comprising subjecting the exhaled air to the action of a mixture of barium peroxide, ferrate of barium, sodium peroxide and manganate of barium.

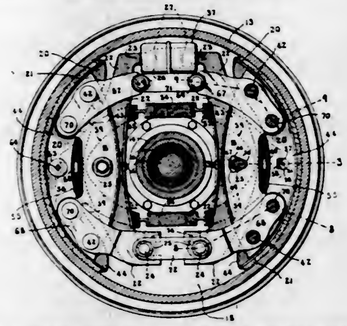
---

**2,389,310**
**AIR INLET**
**Louis Franklin Hess, Los Angeles, Calif., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif., a corporation of New York**
**Application March 1, 1943, Serial No. 477,679**
**8 Claims. (Cl. 98—108)**



1. In combination with an air supply conduit, an air inlet comprising a duct having two sections hinged together at their open ends, one of said sections being hinged at the opposite end to a support and adapted to receive air from said air supply conduit when in a vertical position the forward wall of said section being shortened to permit it to be swung on its hinged support to a horizontal position and receive air from said air supply conduit, the other of said sections being hinged to said first mentioned section so that it will lie adjacent to and parallel with said first mentioned section when in a vertical position and will form a continuous duct with said first mentioned section when said sections are extended in a horizontal position.

**2,389,311**
**BRAKE**
**Harry J. Hirschman and Frederick A. Hirschman, Rock Hill Village, Mo.**
**Application April 21, 1943, Serial No. 483,958**
**22 Claims. (Cl. 188—78)**



1. A brake device comprising a rotary member having an internal friction face, a brake shoe provided with an arcuate friction member adapted to engage said internal friction face, and operating means comprising a bridge connected to said brake shoe, an operating member, a pivotal thrust member through which pressure is transmitted from said operating member to said bridge, anchor pins for the brake shoe, and articulating links connecting said bridge to the anchor pins.

---

**2,389,312**
**COIN DISPLAY HOLDER**
**Charles R. Honza, Bethel, Kans.**
**Application April 28, 1945, Serial No. 590,943**
**2 Claims. (Cl. 206—0.82)**



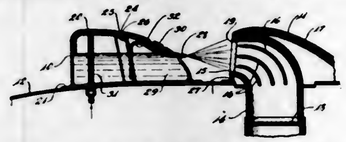
1. In a coin holder of the kind described, a member composed of transparent non-frangible material impervious to air or moisture and having two opposite flat parallel sides one having in it a circular cavity having on its periphery at one side of its diameter two spaced apart resilient projections, said cavity being adapted to receive flatwise therein a circular coin of a thickness not greater than the depth of said cavity and having a diameter less than that of said cavity but such that, when the coin bears at one edge against the periphery of said cavity at the side opposite to said projections, its opposite edge will press against and bend and hold under tension said projections, thereby holding the coin from edgewise movement.

---

**2,389,313**
**SHIELD ASSEMBLY FOR AIR SCOOPS OR THE LIKE**
**Willson H. Hunter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application September 11, 1943, Serial No. 501,979**
**13 Claims. (Cl. 98—1)**

1. A shield assembly for an air scoop or the like projecting from a surface of aircraft, said assembly comprising a body disposed on the surface in the air stream in advance of the mouth of the scoop to deflect air-borne foreign matter while permitting free flow of air to the scoop, means for intercepting and deflecting liquid flow-

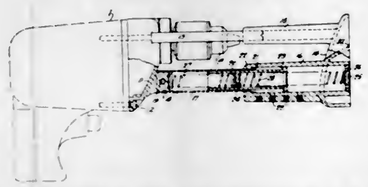




ing rearwardly along the body surface, and means within said body and extending through the rear wall thereof for introducing anti-icing fluid into the air stream rearwardly of the said body and in a rearward direction against the mouth of said scoop.

---

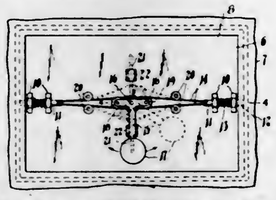
**2,389,314**
**PORTABLE TOOL**
**Alfred Godfrey Imhof, London, and Louis Hoyles, Stanmore, England; said Hoyles assignor to said Imhof**
**Application December 13, 1943, Serial No. 514,152**
**In Great Britain January 27, 1943**
**8 Claims. (Cl. 77—55)**



1. In a portable tool, the combination of a tool holder, a guide plate adapted to be pressed against the work to be operated on by said tool, and at least one guide comprising three members slidably mounted relatively to one another, one of the members serving to maintain the other two members in line with one another, means constraining the said member to move relatively to the two members as the guide is extended or retracted, the said guide connecting said guide plate to said tool, whereby the guide plate is constrained to move in a direction parallel with the axis of said tool holder, and means tending to force said guide to its extended position.

---

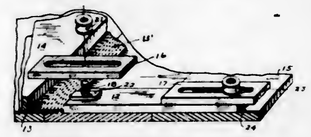
**2,389,315**
**RELEASE DEVICE FOR SAFETY ROOF EXITS**
**Robert Kerr, Detroit, Mich.**
**Application January 1, 1945, Serial No. 570,971**
**2 Claims. (Cl. 292—21)**



1. An automatic release mechanism for the cover of a roof exit, comprising a pair of latches mounted at opposite side edges of the cover including outwardly projected bolts, a flexible cable connecting the bolts and drawn substantially taut thereby, a weighted lever pivoted intermediate of the length of the cable, an eccentric device on the lever engaged with the cable for flexing the intermediate extent thereof in a manner to pull the ends of the same for withdrawing the bolts, and means connected to the cable for causing uniform withdrawal of the bolts.

---

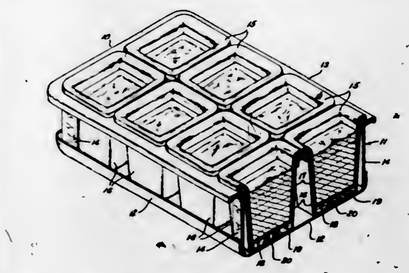
**2,389,316**
**RULE SETTING GAUGE**
**Charles F. Kirby, Berkeley, Calif., assignor to himself and Charles R. Kirby, Berkeley, Calif., as joint tenants**
**Application September 12, 1942, Serial No. 458,095**
**5 Claims. (Cl. 33—103)**



1. A gauge for use in setting a free rule in parallel relation to a relatively long straight side edge of a sheet of flexible material disposed on a support surface, comprising an elongated and relatively narrow base member for direct positioning disposal upon said surface and having a flat end transverse to its bottom plane arranged for abutting engagement with said edge of the sheet while supported upon said surface, and an elongated arm member mounted on said base longitudinally thereof to dispose its free end transversely beyond said flat base end and in spaced relation to the bottom plane of the base member for spacedly overlying a sheet having its straight edge engaged by said flat side of the base member when the base is supportedly mounted upon the surface beside the sheet, said free end of the arm member providing a reference stop for use in positioning the rule upon the sheet.

---

**2,389,317**
**REFRIGERATION**
**William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application November 3, 1938, Serial No. 238,575**
**28 Claims. (Cl. 62—108.5)**

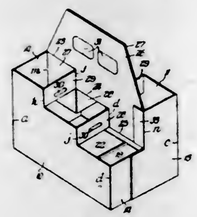


16. A device of the character described comprising a wall having a pocket formed therein

for receiving water to be frozen into a unit of ice, the bottom wall of said pocket being deformable; means cooperating with said bottom to form a chamber; and a body of fluid confined in said chamber in position to react against said deformable bottom wall; said means being constructed and arranged to transfer heat from an external source to said fluid and said fluid being of such character and being present in such amount as to exert, upon a rise in temperature thereof, a force upon said bottom sufficient to move the same toward the center of said pocket and break the bond between the walls of said pocket and ice frozen therein.

---

2,389,318
**BOTTLE HOLDER**
**Samuel N. Lebold, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois**
Application July 12, 1944, Serial No. 544,594
7 Claims. (Cl. 229—52)

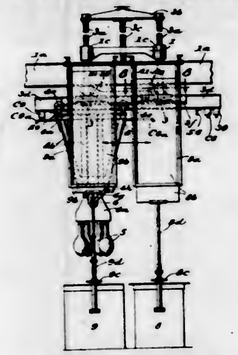


1. A carrier for packaging bottles and the like, comprising a paper board blank formed into a receptacle having two side walls and two end walls arranged alternately and hinged to one another at their lateral margins, bottom flaps hinged to the lower margins of opposite walls and adapted to form a bottom for the receptacle, two handle panels hinged respectively to medial portions of respective end walls so that the latter may be swung to and from positions where they lie at right angles to the handle panels and side walls, and partition strips connecting respective side walls to respective handle panels along hinge lines extending at right angles relative to the lower margins of the side walls, the hinge lines of different partition strips in respective side walls being disposed at different distances from the lower margins of the latter and the partition strips being located at different distances from the lateral margins of the side walls and handle panels which they connect, the upper edges of said partition strips being arranged in stepped, vertically offset relationship.

---

2,389,319
**DIPPING MACHINE**
**Stanley McMordie, Arlington, and Dewey A. Peterson, Chelsea, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts**
Application November 10, 1941, Serial No. 418,598
22 Claims. (Cl. 18—24)

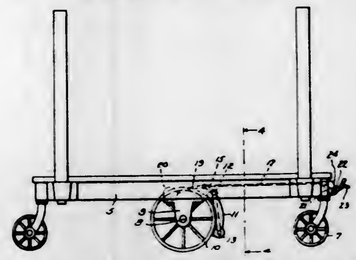
22. Dipping apparatus comprising, in combination, a dipping frame mounted for vertical movement, means including a motor for raising and lowering said frame, and means controlled by the movement of said frame for changing the speed



of said motor at predetermined points in the vertical movement of said frame.

---

2,389,320
**TRUCK BRAKE**
**Willard L. Nance, Peoria, Ill.**
Application June 14, 1944, Serial No. 540,339
1 Claim. (Cl. 188—21)



In a truck, a frame including side bars, a pair of side wheels supporting said frame, a pair of upstanding brake shoes for the wheels, a pair of rods connecting the upper and lower ends of said shoes, one rod having ends journaled in said side bars whereby said shoes are suspended for swinging into and from brake-applying position, an arm upstanding from said journaled rod, an operating rod pivoted at one end to said arm, a foot rocker pivoted on said frame and to which the other end of the operating rod is pivoted, and a detent for holding said rocker in different positions comprising a pawl on said rocker and a ratchet bar on said frame.

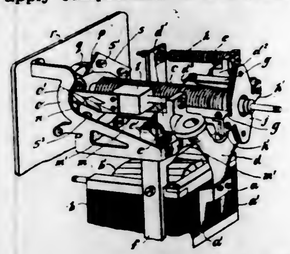
---

2,389,321
**ELECTRIC REGULATOR**
**Leslie Reginald Nixon, New Eltham, England, assignor to J. Stone & Company Limited, Deptford, England, a joint-stock company of Great Britain**
Application February 15, 1944, Serial No. 522,521
In Great Britain February 19, 1943
3 Claims. (Cl. 201—51)

1. An electric regulator comprising in combination a resistor pile, an adjustable abutment engaging one end of said pile, a presser device engaging the opposite end of said pile, a hingedly



mounted two-armed lever, operative connections between one arm of said lever and said presser device, a spring connected with the said lever arm and operative for causing said presser device to apply compression to said pile, an elec-



tro-magnet, an armature mounted on the other arm of said lever and co-operative with said magnet for decompressing said pile, an indicator device fixedly mounted on said lever so as to extend therefrom, and means on the regulator framing in indicative relation with said indicator.

---

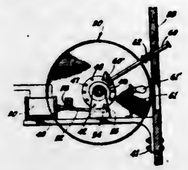
2,389,322
**ROOFER'S MOP**
**Burton A. Olsen, Elisha T. Combs, and John H. Nelson, Oakland, Calif., assignors to California Cotton Mills Company, Oakland, Calif.**
Application November 29, 1943, Serial No. 512,286
2 Claims. (Cl. 15—229)



1. A roofer's mop comprising a straight stick providing a handle and an outer end at opposite ends thereof respectively, a tubular imperforate sleeve reciprocable on said stick, a U-shaped yarn holder, the legs of which extend along opposite sides of said stick with the closed end of said holder extending across said outer end of said stick, a quantity of mop yarn positioned between said closed end of said holder and said outer end of said stick, said sleeve enclosing the outer end portion of said stick including said legs for holding the latter against said stick, said sleeve being formed with a bell-shaped end portion coaxial therewith and having parallel sides and axially facing free end edges, the said free end edges of said end portion being in tight engagement with said yarn, the part of said yarn that is between said closed end of said holder and said outer end of said stick being tightly packed within said bell-shaped portion, outwardly opening recesses formed in the sides of said stick, projections on said legs extending into said recesses, said sleeve being slidable on said stick toward the handle end thereof in direction away from said mop for uncovering said holder and said part of said yarn and means on said sleeve for releasably securing said sleeve against so sliding on said stick.

---

2,389,323
**ANNUNCIATOR SYSTEM**
**Herman Stewart Ott, Rosemead, and Preston W. Coombs, Los Angeles, Calif.**
Application March 6, 1944, Serial No. 525,134
3 Claims. (Cl. 177—338)



1. An annunciator mechanism comprising an electric circuit including a push button switch, a source of electric energy and a solenoid device adapted to be actuated by said electric energy, a rotatably mounted drum carrying a succession of characters, a series of prongs arranged in a circle about the axis of rotation of the drum corresponding in number and relative position to the characters, a spring-pressed detent having a head end adapted to be normally pressed into the space between adjacent prongs, a return mechanism adapted to return the drum to initial position upon manual release of the detent, and a hook member having an end engageable one at a time with the prongs and attached at the other end to the solenoid adapted thereby to rotate the drum one step at a time against the resistance of the detent.

---

2,389,324
**SPOT-WELDING MACHINE**
**Arthur Pedley, Bentley, near Walsall, England, assignor to Rubery Owen & Co. Limited, Darlaston, England**
Application June 10, 1943, Serial No. 490,345
In Great Britain June 18, 1942
5 Claims. (Cl. 219—4)



1. In a multiple spot-welding machine, a plurality of movable electrodes, a block having bores to slidingly receive the electrodes, a rigid

current-conducting bar bolted to said block, spaced plungers carried by said block and coacting with one of said electrodes, and spring means urging said plungers to press said one electrode into contact with one side of its associated bore, whereby to ensure good conductivity between said bar and said one electrode.

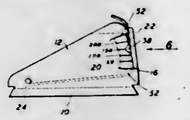
---

2,389,325
**PROCESS FOR THE MANUFACTURE OF α-HYDROXYCARBONYL COMPOUNDS**
**Tadeus Reichstein, Basel, Switzerland**
No Drawing. Application January 21, 1942, Serial No. 427,669. In Switzerland February 14, 1941
6 Claims. (Cl. 260—397.4)

1. Process for the manufacture of α-hydroxycarbonyl compounds of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series comprising dissolving in a solvent a compound of the said series having free hydroxyl groups on at least three vicinal carbon atoms in the 17, 20, 21 and 22 positions, at least one of which is a primary hydroxyl group, combining it with a solution containing an approximate equimolecular amount of an oxidizing agent selected from the group consisting of periodic acid and lead tetraacylates causing to split off the primary carbinol group, and arresting the reaction after the oxidizing agent has been substantially all consumed.

---

2,389,326
**GUN SIGHT**
**Eugene G. Reising, Hartford, Conn.**
Application November 29, 1943, Serial No. 512,127
3 Claims. (Cl. 33—58)

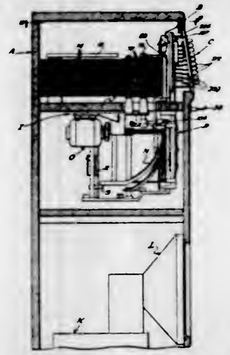


1. As an article of manufacture, a base plate adapted for attachment to a firearm, said base plate being provided with a pair of upwardly extending side walls, said side walls having corresponding end edges notched, an arm swingably mounted in the device and having an angular end spring portion means on the latter cooperating with said notches for latching the spring arm in various adjusted positions relative to the base, and means in the spring arm providing a sight.

---

2,389,327
**PHONOGRAPH**
**David C. Rockola, Lawrence E. Dettle, and Eugene L. Triman, Chicago, Ill., assignors to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware**
Application April 28, 1941, Serial No. 390,774
33 Claims. (Cl. 274—10)

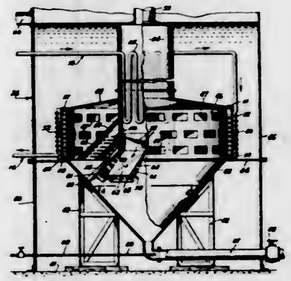
1. The combination comprising a multirecord automatic phonograph, means in said phonograph for predetermining the playing of a record therein and for predetermining the playing of numerical series of the records therein, means mounted in said phonograph for predetermining the playing of any record therein and for predetermining the playing of each of any plurality of records therein, means responsive to the actuation of the second said means for rendering ineffective the first said means, means including an actuating device located at a distance from said phonograph for predetermining any record therein and for predetermining each of any plu-



rality of said records, and means responsive to the actuation of the last said means for rendering the first said means and the second said means ineffective but not inoperative.

---

2,389,328
**APPARATUS FOR TREATING PETROLEUM**
**David W. Stilwell, Los Angeles, Calif.**
Application May 18, 1942, Serial No. 443,409
4 Claims. (Cl. 196—5)

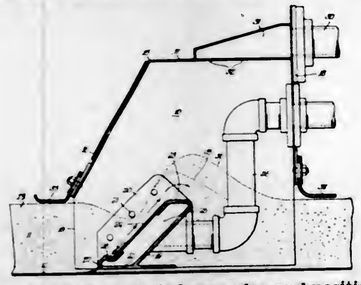


1. A petroleum wash tank comprising: a receiving chamber, vertical heating coils therein, distributing heads extending outwardly from said chamber, spreader cones extending from said chamber and overlying the distributing heads, a cone below the chamber to receive foreign matter passing downward through petroleum in the chamber, and a passage permitting the flow of petroleum out of said cone.

---

2,389,329
**FILTER BED CLEANING**
**Philip B. Streander, Maplewood, N. J.**
Application February 14, 1941, Serial No. 378,931
19 Claims. (Cl. 210—128)

1. A travelling cleaning device adapted to move along a filter bed in which the filter medium is composed of granular material, said travelling cleaning device comprising an open-bottom caisson movable over the surface of the bed, a hollow transverse cleaner head beneath the caisson and movable therewith, said cleaner head being so positioned that its bottom is closely adjacent the bottom of the filter bed and having a continuous leading face extending substantially the length of said caisson and of a height substantially the depth of said bed, means to supply water under pressure to within said head, orifices

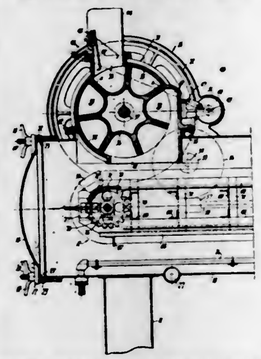


through said face at its lower edge and positioned to direct jets of water forwardly and downwardly, whereby the bed material will be loosened and lifted over the head as it advances, and means for removing dirty water from the caisson.

---



2,389,330
**VALVE MECHANISM FOR PRESSURE COOKERS**
**Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware**
Application April 20, 1942, Serial No. 439,738
11 Claims. (Cl. 198—211)

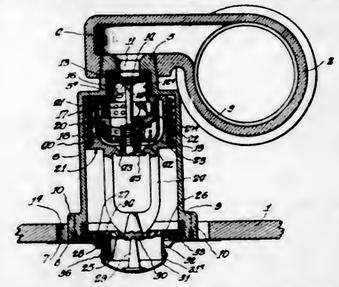


1. A valve mechanism comprising a housing having a feed opening and a discharge opening, a valve in said housing including a pocket movable between said openings to receive and discharge fruit, a gate movable to open and closed position for controlling the feed of fruit to the pocket through said feed opening, and means for opening the gate to admit fruit to the pocket and for subsequently closing the gate ahead of the trailing edge of the pocket to interrupt the flow of fruit to the pocket before the same leaves the feed opening.

---

2,389,331
**SPRINKLER HEAD**
**Emil Tyden, Hastings, Mich.**
Application July 12, 1944, Serial No. 544,512
12 Claims. (Cl. 169—37)

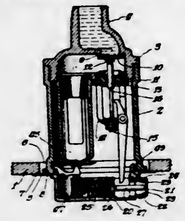
1. A sprinkler head for a fire extinguishing system comprising a housing with its lower end disposed substantially flush with a ceiling, a closure for said lower end of the housing including a cap and fusible means securing said cap, a normally closed valve in the housing, a carrier supporting the spreader and slidable vertically in the housing,



means interposed between the cap and said carrier upholding the carrier, whereby, upon fusing of the means securing the cap, said carrier descends in the housing, lowering the spreader to an operative position below the plane of the ceiling, and means operable by the downward movement of the carrier to open the valve.

---

2,389,332
**SPRINKLER HEAD**
**Emil Tyden, Hastings, Mich.**
Application July 14, 1944, Serial No. 544,882
12 Claims. (Cl. 169—37)



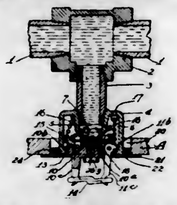
1. A sprinkler head for a fire extinguishing system, comprising a housing with its lower end disposed substantially flush with a ceiling, a closure for said lower end of the housing releasably secured thereto, a downwardly open flow passage within the housing, a valve controlling said passage, a fusible element carried by said closure, means whereby the valve is opened upon fusing of said element, admitting water to the flow passage, a spreader disposed adjacent the lower end of the flow passage in position to be forced downwardly by the flow of water, means actuated by the downward movement of the spreader to release said closure, and means arresting said spreader at a suitable distance below the plane of the ceiling for performing its spreading function.

---

2,389,333
**SPRINKLER HEAD**
**Emil Tyden, Hastings, Mich.**
Application July 21, 1944, Serial No. 545,989
16 Claims. (Cl. 169—40)

1. A sprinkler head for a fire extinguishing system comprising a housing, a water discharge port within said housing, a closure cap for said port, a

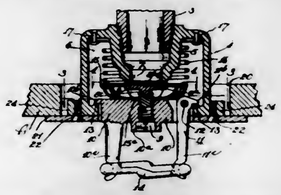
spreader with collapsible means connecting said spreader to the housing, said means being dimensioned when extended to support the spreader at an operative position, a pair of levers pivoted together forming a toggle with their respective ends



engaging a portion of the housing, arms extending from said levers, a fusible link connecting said arms, and means carried by the toggle holding said cap in port closing position with said spreader and its collapsible supporting means disposed within the housing.

---

**2,389,334**
**SPRINKLER HEAD**
**Emil Tyden, Hastings, Mich.**
**Application September 11, 1944, Serial No. 553,541**
**11 Claims. (Cl. 169—40)**



1. A sprinkler head for a fire extinguishing system comprising a water supply conduit having a discharge port, a closure cap for said port, a spreader, a fixed anchorage, and resilient collapsible supporting means connecting the spreader to said anchorage and self-extensible to hold the spreader in operative relation to the said discharge port, together with means including a fusible element normally holding the cap in port closing position and retaining the spreader at a position with its supporting means collapsed, but operable, upon fusion of said element, to release said cap and said spreader, allowing the supporting means to be extended for presenting the spreader at operative position.

---

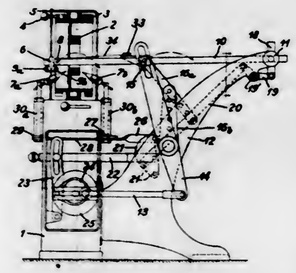
**2,389,335**
**STRAP FASTENER**
**William George Vasey, New Westminster, British Columbia, Canada**
**Application February 21, 1944, Serial No. 523,205**
**2 Claims. (Cl. 24—71)**



1. A wrist strap fastener comprising a casing having enclosing walls and an entrance opening for a wrist strap through one of said walls, an anchorage within the casing, an elastic media secured at one end to the anchorage and adapted for connection to the inner end of said wrist strap whereby said strap is drawn inwardly into the casing in response to contraction of the elastic media, a rockingly mounted pawl carried by the casing and adapted to cover a portion of the entrance opening, said pawl being adapted to normally close upon the strap to prevent its retraction, said pawl having a member extending outwardly from said casing to facilitate the rocking of said pawl by finger pressure towards the centre of said casing to release the engagement of the pawl with the strap.

---

**2,389,336**
**MACHINE FOR WINDING THE STATORS OF ELECTRIC MOTORS**
**Otto Wirth, Zurich, Switzerland, assignor to Micafil Ltd. Works for Electrical Insulation and Winding Machines, Zurich, Switzerland**
**Application August 28, 1942, Serial No. 456,565**
**In Germany August 5, 1941**
**33 Claims. (Cl. 242—1)**

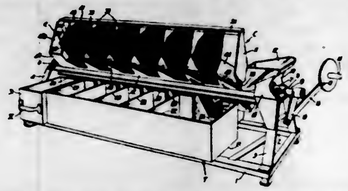


1. In a machine for winding the slotted stator of an electrical device, a relatively stationary ring frame for supporting a slotted stator, wire laying mechanism having wire guiding means at one end thereof, means for imparting reciprocating movement to said wire laying mechanism to carry said wire guiding means back and forth through the bore of the stator supported by the ring frame, means for moving the wire guiding means angularly in opposite directions at opposite sides of the stator, a guide finger at each side of the ring frame, means pivotally supporting each guide finger for oscillatory movement over an arcuate path, and means for oscillating each finger to pick up the wire during angular movement of the wire guiding means adjacent that finger and to move away from the wire after the wire guiding means has moved into the stator and drawn the wire into the slot of the stator.

---

**2,389,337**
**ARTICLE TREATING MACHINE**
**Erich R. Zademach, Elizabeth, N. J., assignor, by mesne assignments, to Metalwash Machinery Company, Newark, N. J., a copartnership**
**Application November 16, 1940, Serial No. 365,938**
**16 Claims. (Cl. 134—66)**

1. In a tumbling machine for treating material, the combination of a conveyer having an axis, a plurality of pockets secured to said conveyer on one side of said axis, a plurality of pockets secured to the conveyer on the other side of said axis, means for causing the material to pass from a pocket on one side of said axis to one on the opposite side thereof upon oscillation of said conveyer, tanks adapted to contain treating fluids and disposed in the paths of certain of

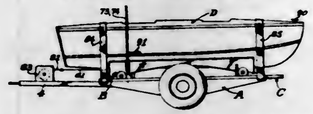


said pockets and means for oscillating said conveyer.

---



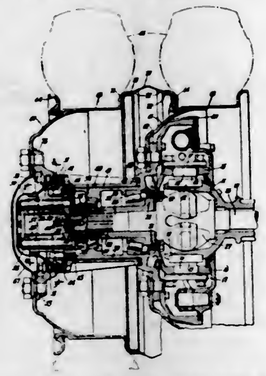
**2,389,338**
**BOAT LAUNCHING TRAILER**
**Frank J. Zore, Jr., Waukegan, Ill.**
**Application February 26, 1945, Serial No. 579,843**
**16 Claims. (Cl. 214—85)**



1. A boat launching trailer comprising a wheeled platform, a pair of parallel rails secured in spaced relation on top of said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp unit including a pair of parallel rails adapted to be positioned, when inoperative, independent of said boat carrier on said platform and parallel to and between the rails secured to the latter, and means for detachably securing said ramp in its operative position with respect to one end of said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier adapted to guide said boat carrier off the rails on said platform.

---

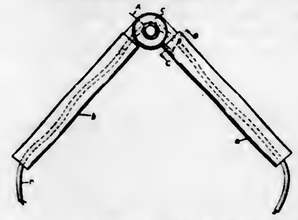
**2,389,339**
**DUAL WHEEL ASSEMBLY**
**Charles S. Ash, Milford, Mich.**
**Application October 31, 1942, Serial No. 464,063**
**17 Claims. (Cl. 180—22)**



1. A dual wheel assembly comprising, in combination, a vehicle axle, a live shaft within the axle to be driven by the vehicle power means, a first wheel hub rotatably mounted on the end of the axle, a second wheel hub rotatably mounted on the first hub, an inwardly dished demountable at the hub wheel mounted on the inner end of the first hub, another inwardly dished demountable at the hub wheel mounted on the outer end of the second wheel hub, and differential gearing means between the live shaft and the two wheel hubs, the overall diameter of said differential gearing means being less than the inner diameter of said wheels.

---

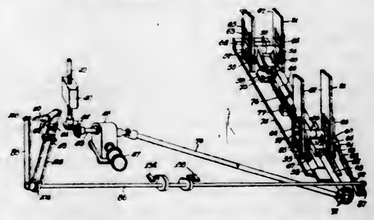
**2,389,340**
**ADJUSTABLE HOLDER FOR ELECTRIC LAMPS AND THE LIKE PURPOSES**
**James Robert Bateman, Hatfield, England**
**Application June 19, 1944, Serial No. 541,035**
**In Great Britain June 17, 1943**
**1 Claim. (Cl. 287—96)**



A hinge joint between the tubular arms of adjustable holders for electric lamps and the like, comprising lugs at the ends of the arms and formed with apertures and overlapping, friction washers of compressible material interposed between the lugs, annular members constituting spacers and acting as guides for the electric conductor in its passage from one tubular arm to the other and engaging with the arms to rotate therewith, a bolt passing through the apertures in the lugs and through apertures formed in the friction washers and through the spacers, and a friction washer interposed between the annular members and providing a frictional bearing surface without metallic contact and in addition to that afforded by the overlapping lugs and the interposed friction washers.

---

**2,389,341**
**SPEED CONTROL MECHANISM FOR CUTOFFS**
**Herbert C. Behrens, Haddon Heights, N. J., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey**
**Application November 20, 1943, Serial No. 511,039**
**23 Claims. (Cl. 164—68)**

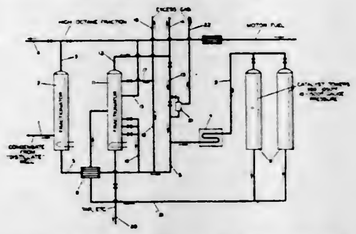


23. In a machine for cutting a traveling web into sheets, a cutter, an infinite speed change drive for said cutter and having a speed adjusting member, a motor for operating said adjust-

ing member, a sheet length scale, a member movable over said scale and operated from said motor for indicating the length of sheet cut, a sheet length preselecting member manually movable over said scale, control means for operating said motor in a direction to move said indicating member towards registry with said preselecting member, and including a pair of manually operable electric switches causing rotation of said motor in either direction when actuated from normal positions and automatically restored to normal positions when manually released, means for continuing the rotation of said motor after said switches have been released, means for automatically stopping said motor when said indicating member reaches a position in registry with said preselecting member, a pair of jog electric switches for operating said motor in either direction, and means operable when said jog switches are rendered inoperative for converting said first-mentioned switches into jog switches, whereby said motor is made to operate only as long as said first-mentioned switches are actuated.

---

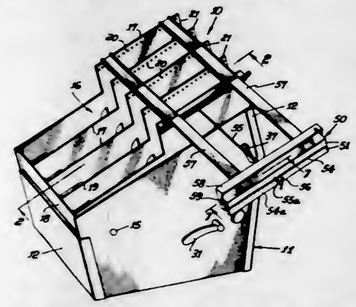
**2,389,342**
**CATALYTIC DEHYDROGENATION**
**Miller Wade Conn, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application August 10, 1942, Serial No. 454,311**
**1 Claim. (Cl. 196—9)**



A process which comprises subjecting a normally liquid condensate obtained from the hydrocarbon mixture occurring naturally in the gaseous phase in distillate wells under a pressure in excess of 1000 pounds per square inch to fractionation to separate a first fraction containing the high octane components in the motor fuel boiling range and a second fraction containing the low octane and heavier components, passing said second fraction in the presence of recycled hydrogen and $C_3$ and $C_4$ hydrocarbons formed in this step in contact with a granular bauxite catalyst at a temperature within the range of approximately 900° to approximately 1100° F. and at a pressure within the range of approximately 10 to approximately 1500 pounds per square inch gauge, fractionating the effluent from the last-named step to recover at least six fractions as follows: (1) a fraction consisting of essentially pure hydrogen, (2) a fraction containing $C_3$ and lighter hydrocarbons, (3) a fraction containing $C_3$ and $C_4$ hydrocarbons, (4) a normally liquid fraction containing the high octane components in the motor fuel boiling range, (5) a second liquid fraction containing the low octane components and components heavier than those in the motor fuel boiling range, including unconverted and incompletely converted normally liquid components of the charge to said last-named step, and (6) a fraction containing tars and heavy material unsuitable for recycling, recycling at least a portion of said hydrogen fraction (fraction 1) and at least a portion of said $C_3$ and $C_4$ fraction (fraction 3) to said catalytic conversion step, recycling said second liquid fraction (fraction 5) to said catalytic conversion step for additional conversion along with fresh material, and blending said first-named high octane fraction with said second-named high octane fraction (fraction 4) to give a high octane motor fuel.

---

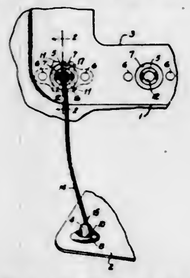
**2,389,343**
**CARD SORTING MACHINE**
**Roger Connor, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation**
**Application October 30, 1943, Serial No. 508,385**
**6 Claims. (Cl. 129—16.1)**



4. An apparatus of the character described comprising a frame, an inclined platform on the frame, laterally spaced templates superposed on the platform, said templates being complementary to cards to be received between the templates and having holes formed therethrough to register with holes in cards to be interposed therebetween, means for independently raising and lowering the platform with respect to the bottom of the templates, vibrating means connected with the templates for vibrating the same, and means for automatically placing the vibrating means in operation upon the lowering of the platform and ceasing operation of the vibrating means automatically upon raising of the platform from its lowered position.

---

**2,389,344**
**RETAINING DEVICE**
**Alvin Constance, Carsonville, Mo.**
**Application February 24, 1944, Serial No. 523,763**
**11 Claims. (Cl. 24—221)**



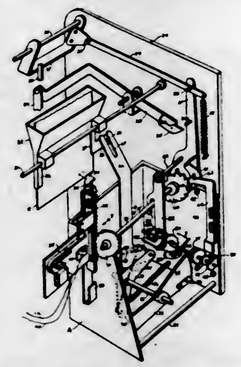
1. In apparatus for limiting the extent of separation of separable members which are provid-



ed with openings and having associated therewith a detachable holding means comprising a holding element positionable in the openings and provided with a headed portion for cooperation with one of the separable members and detachable means mounted on said holding element and engageable with cooperating means on the other of the separable members to thereby hold the members secured together, said apparatus comprising an elongated element secured at one end to the holding element and capable of being pulled through the opening in said other of the separable members when the holding means is caused to be inoperative, and means on said elongated element for preventing the other end of the elongated member from being drawn through the opening in said other of the separable members, said elongated element and said last named means together with the holding element cooperating with the separable members to positively limit the extent of separation thereof.

---

**2,389,345**
**CARD TIME RECORDER**
**James A. Dell and Harold E. Hobby, Gardner, Mass., assignors to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts**
**Application June 17, 1944, Serial No. 540,859**
**8 Claims. (Cl. 234—43)**

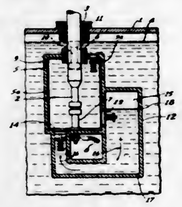


1. In a card time recorder including a main frame and a card chute slidable horizontally therein, the feature of an auxiliary unit having mounted therein, a plurality of devices comprising a card abutment, means to move said abutment vertically step-by-step, a connection to the card chute, means to move said connection and card chute horizontally step-by-step, and means to coordinate said vertical and horizontal movements in predetermined order, and said auxiliary unit and said devices mounted therein being removable together from said main frame.

---

**2,389,346**
**CIRCUIT INTERRUPTER**
**Clinton L. Denault, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 8, 1942, Serial No. 454,135**
**16 Claims. (Cl. 200—150)**

1. In a circuit breaker, means defining an arcing chamber, means for establishing an arc within said arcing chamber, a second adjacently disposed chamber, a compressible fluid partly filling said second chamber, a first valve means connecting said two chambers to compress said compressible fluid during the establishment of said



arc, a second valve means operative after the subsidence of pressure within said arcing chamber to utilize the energy stored in said compressible fluid for flushing out said arcing chamber.

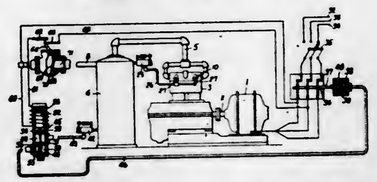
---

**2,389,347**
**MANUFACTURE OF POLYHYDRIC ALCOHOLS**
**Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application April 19, 1941, Serial No. 389,418. In Great Britain April 3, 1940**
**7 Claims. (Cl. 260—635)**

1. Process for the production of a polyhydric alcohol, which comprises subjecting a hydroxyl-group-containing halogen derivative of a polyhydric alcohol containing fewer carbon atoms to the action of heat in presence of a metal selected from the group consisting of copper and silver said metal being prepared in a finely divided and chemically reactive form, by reduction with sulphur dioxide of a compound of the metal dispersed in an aqueous medium so as to eliminate halogen from said compound to produce a polyhydric alcohol of higher molecular weight.

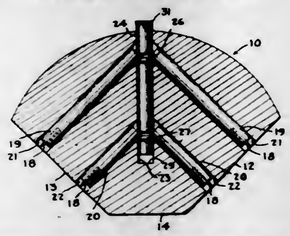
---

**2,389,348**
**PUMP CONTROL SYSTEM**
**Ralph C. Dustin, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts**
**Application August 10, 1942, Serial No. 454,219**
**16 Claims. (Cl. 230—18)**



1. In a control system, in combination, a compressor, a motor for driving said compressor, a normally closed switch for controlling the supply of electric current to said motor, means operative on the supply of pressure fluid thereto for effecting an opening of said switch, passage means for conducting pressure fluid to said fluid operated means, means including valve means operative at a predetermined maximum compressor discharge pressure for supplying pressure fluid to said passage means, and means responsive to the flow of pressure fluid from said compressor to a point of use for controlling the flow of fluid through said passage means.

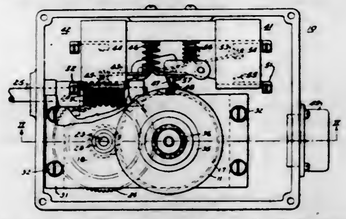
**2,389,249**
**SUPPORT OR BRACE**
**Harold Eastman, Port Washington, N. Y., assignor of one-half to George Lasher, Great Neck, N. Y.**
**Application March 31, 1943, Serial No. 481,358**
**7 Claims. (Cl. 211—134)**



3. A shelf having edge faces including a front face, and converging side faces that fit against the walls at a corner of a room, a chamber within the shelf, said chamber opening through the front face of the shelf, and branch chambers opening through the side faces of the shelf, a cam element in the chamber, an end portion on the cam element projecting through the opening in the front face of the shelf, a slide in each of the branch chambers, a rearward face on each slide in contact with the cam element, and a fastening projecting from the forward end of each slide.

---

**2,389,350**
**LIMIT SWITCH**
**Donald W. Exner, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 6, 1942, Serial No. 453,773**
**3 Claims. (Cl. 200—47)**

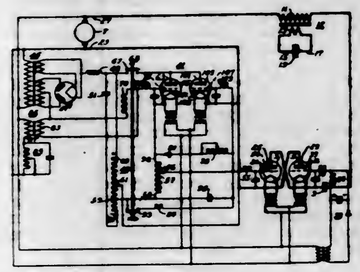


1. In a device of the class described, in combination, a plurality of pairs of adjacent cams, means driven by the same source for continuously rotating the cams of each pair at different speeds first in one direction and then in the other direction, switching means actuated by each pair of adjacent cams independently of the other pair when one cam has made a predetermined number of revolutions in the same direction as and relative to the other cam of said pair, and means for adjusting the relative angular positions of the cams of each pair.

---

**2,389,351**
**ELECTRONIC FULL CYCLE TIMING CONTROL**
**Donald P. Faulk, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 30, 1942, Serial No. 463,988**
**6 Claims. (Cl. 250—27)**

1. For use in supplying power from an alternating current source to an inductive load, the combination comprising a pair of electric discharge valves of the arc-like type connected in anti-parallel between said source and load, means for rendering one of said valves conductive in a half period of said source, a capacitor connected



in series with said source and load and said one valve to be charged by current flowing through said one valve and means operable in response to the potential across said capacitor after charging thereof to render the other of said valves conductive in the following half-period.

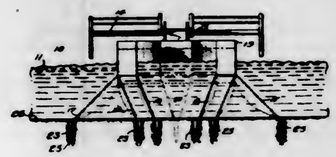
---

**2,389,352**
**ALUMINUM SILICATE PRODUCT AND PROCESS OF MAKING SAME**
**Elbert E. Fisher, St. Louis, Mo.**
**No Drawing. Substituted for abandoned application Serial No. 442,121, May 7, 1942. This application November 13, 1944, Serial No. 563,319**
**3 Claims. (Cl. 23—110)**

1. The process comprising mixing aluminous and siliceous materials in proportions such as to yield a mixture having within less than one percent (1%) of three molecules of alumina to each molecule of silica, firing the mixture to a temperature of at least 4200 degrees Fahrenheit, and then cooling.

---

**2,389,353**
**FLOATING DOCK**
**Henry O. Foss, Tacoma, Wash.**
**Application April 14, 1943, Serial No. 483,022**
**7 Claims. (Cl. 61—48)**



1. A dock construction comprising a floating dock unit, a plurality of anchoring elements completely embedded in the ground beneath the water, and normally slack flexible elements connecting said dock unit to said anchoring elements at points spaced from the top surface of such ground, said flexible elements being connected to the dock unit at oppositely facing points and diverging downwardly at substantially uniform angles to the vertical.



**2,389,354**
**CELLULOSE ETHER COMPOSITION**
**Walter E. Gloor, New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 26, 1942, Serial No. 467,045**
**12 Claims. (Cl. 106—179)**

1. As a new composition of matter, a cellulose ether plasticized and stabilized by a compound selected from the group consisting of para-tertiary butyl phenoxy ethanol, para-tertiary amyl phenoxy ethanol, and para-tertiary butyl phenoxy ethyl acetate; the total amount of plasticizer in said composition being in amounts of from 10 to 60% of the total weight of plasticizer and cellulose ether.

---

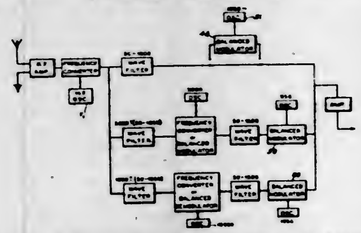
**2,389,355**
**SURGICAL NEEDLE**
**Philip P. Goland and Charles R. Drew, Washington, D. C., assignors of two-fifths to said Goland, two-fifths to said Drew, as trustee, and one-fifth to Althea D. Kessler**
**Application January 27, 1943, Serial No. 473,736**
**6 Claims. (Cl. 128—214)**



1. A surgical needle comprising, in combination: an outer cannula having a base carrying one member of a readily detachable connection; an inner cannula carrying a second member of said connection and one member of a tube connector; said one members being alike whereby said joint may be separated and the remaining member of said tube connector may take the place of said second member to place a tube into direct communication with said outer cannula.

---

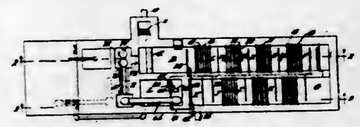
**2,389,356**
**METHOD OF REDUCTION OF SELECTIVE FADING**
**Hallan E. Goldstine, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application November 24, 1942, Serial No. 466,745**
**8 Claims. (Cl. 250—6)**



1. In a secret signalling system, a source of signalling voltages, selective circuits for splitting said signalling voltages into at least two bands of frequencies located adjacent to each other in the signal voltage frequency spectrum, said bands together covering the entire signal voltage frequency spectrum, a frequency inverter coupled to the selective filter passing the lowest band of frequencies and inverting the same, a frequency reducer and inverter coupled to the other of said selective filters for inverting the other band and reducing the frequency thereof so that it falls in the band occupied by said lowest band of frequencies, and a modulation system for modulating carrier energy in accordance with the resulting signals.

---

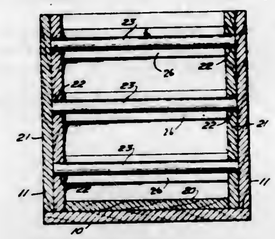
**2,389,357**
**SYSTEM OF SEWAGE CLARIFICATION AND SLUDGE REMOVAL**
**Llewellyn Brooks Griffith, Austin, Tex.**
**Application January 15, 1942, Serial No. 426,906**
**19 Claims. (Cl. 210—8)**



1. In a sewage purification stream, a channel, submerged transverse weir plates separating the channel into a plurality of tanks, a plurality of baffle plates in said channel, one baffle plate in each tank, extending above the liquid surface and leaving an open space at the bottom of the channel, a plurality of partitions in each tank on both sides of said baffle plate, and means for discharging air in each tank near the liquid surface in a direction to cause a portion of the sewage to pass over a submerged weir plate to the next successive tank, said means being out of vertical alinement with the partitions and plates.

---

**2,389,358**
**FUSE PACKING BOX**
**Fred E. Gross, Lonoke, Ark.**
**Application February 7, 1944, Serial No. 521,412**
**3 Claims. (Cl. 206—65)**



3. In a packing receptacle, an outer container including spaced upright side and end walls, and a bottom, a frame member having upright spaced walls adapted to be received in said container with its walls abutting adjacent walls of said container, the spaced walls of said frame being formed with a plurality of openings arranged in lateral alinement, rods for receiving a plurality of vanes formed with radiating blades removably arranged in said openings and extending from side wall to side wall, said rods terminating flush with the outer faces of said side walls and abutting the inner wall faces of said container, and spaced tie bars connecting the spaced walls of the frame, there being one tie bar immediately adjacent, opposite to and parallel with each of said rods; said last named spaced tie bars being positioned to extend between the vane blades to retain the same against rotation.

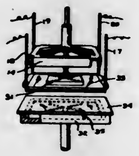
**2,389,359**
**PILOT INSTRUCTING DEVICE**
**Harlow B. Grow, Freeport, N. Y.**
**Application June 24, 1941, Serial No. 399,435**
**4 Claims. (Cl. 35—12)**



2. In a pilot instructing device or the like, a casing, a removable cover for the latter, said cover representing a flying field, a rider representing an aircraft in flight and being operative beneath the cover and having means for indicating its position in respect to the latter, means within the casing for producing audible "A" and "N" signals, means without the casing for the reception of these signals, other means within the casing for controlling the intensity of the signals according to the position of the rider in respect to the cover, means operative within the casing for positioning the rider in respect to the cover, and means without the casing for controlling said rider positioning means and representing a compass rose, and an electric power source supplying current to said signal producing and said rider positioning means, said rider positioning means comprising two cooperating rider-engaging members movable at right angles to each other and a members-actuating mechanism which includes two rectangularly disposed double shaft units, each composed of two parallel, individually driven shafts, and two pair-sets of intermeshed gears, one for each of the members, the gears being in operative engagement with the shafts of each unit.

---

**2,389,360**
**DOUBLE GLAZED WINDOW AND METHOD OF MANUFACTURE**
**Edwin M. Guyer, Jesse T. Littleton, and Morton R. Shaw, Jr., Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**Application April 7, 1942, Serial No. 438,036**
**18 Claims. (Cl. 49—82)**

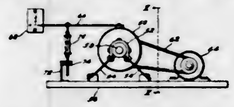


2. A method of making a double glazing unit, which includes holding a pair of similar sized glass sheets flatwise in horizontal parallel planes and in spaced relation by engagement of the sheets solely outside the space between them, heating the marginal edges of the uppermost sheet until they sag down a desired distance bridging the gap between the sheets and then sealing the sheets by fusing them to one another.

8. The method of heating a band of glass comprising a marginal portion of a sheet, which includes applying a conductive coating to the band to be heated, successively and repeatedly including sections of the band between different pairs of electrodes and supplying the electrodes with an electrical potential of a character suitable for initially heating the glass by passing current through the coating and subsequently through the glass as it reaches a conducting temperature.

---

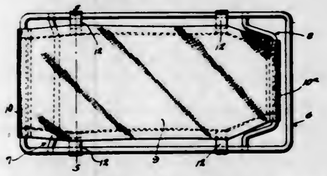
**2,389,361**
**DYNAMOMETER**
**Arthur C. Hagg, Wilkinsburg, and John Boyd, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 12, 1942, Serial No. 434,318**
**5 Claims. (Cl. 73—134)**



3. The combination in a dynamometer of a motor including a casing and a rotatable shaft for driving a rotatable member, a base member, a pair of crossed spring members engaging said casing to support said motor from said base member, said spring members being angularly flexible in a plane perpendicular to the axis of said rotatable shaft and normally intersecting in line therewith, and means for indicating the displacement of said casing relative to its normal undisplaced position to provide an indication of the torque applied to the rotatable member.

---

**2,389,362**
**BABY BATHING COT**
**Agnes Morgan Newman Harper, Jacksonville, Fla.**
**Application October 12, 1944, Serial No. 558,342**
**5 Claims. (Cl. 4—185)**



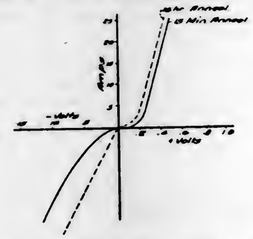
1. A miniature baby bathing cot of the class described comprising a rectangular frame, supporting legs to support the frame in an inclined position in respect to a relatively stationary support, and a tautly stretched sheet of waterproof canvas having one transverse end and opposite longitudinal edge portions attached to and suspended from said frame, the remaining transverse end of the canvas being attached to the adjacent leg and declined to serve as a drainage chute.

---

**2,389,363**
**COPPER OXIDE RECTIFIER**
**Carl C. Hein, Forest Hills, and John W. Stevenhagen, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 23, 1941, Serial No. 408,056**
**3 Claims. (Cl. 175—366)**

1. The method of improving the electrical characteristics of copper oxide rectifiers in which the copper blancs have been subjected to heating in high vacuum before oxidation which consists in annealing the rectifier elements subsequent to oxidation, and at a temperature of the order

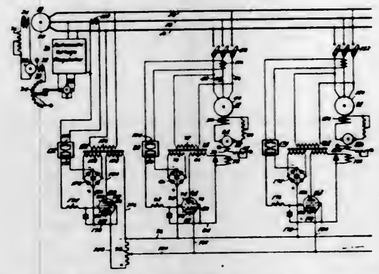




of 425° C. for a period of the order of sixteen hours.

---

**2,389,364**
**REGULATING SYSTEM**
**Harold C. Jenks, Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 1, 1944, Serial No. 561,371**
**6 Claims. (Cl. 171—119)**

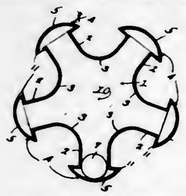


1. A system for regulating the operation of parallel connected alternating-current generators, comprising, in combination, an exciter disposed for operation to control the excitation of a first one of the generators, an automatic voltage regulator responsive to the voltage across the first-named generator for controlling the operation of the exciter, a second exciter disposed for operation to control the excitation of a second one of the generators, the second exciter having a pair of field windings, means for controlling the energization of one of the field windings for controlling the initial excitation of the second-named generator, means responsive to the power factor of the second-named generator disposed to control the energization of the other field winding of the second exciter, and means responsive to the power factor of the first-named generator disposed to cooperate with the power factor responsive means of the second-named generator to limit the functioning thereof whereby the excitation of the second-named generator is controlled to maintain balanced output between the generators.

---

**2,389,365**
**BALANCING TOY**
**Keith Whitaker Johnson, Washington, D. C.**
**Application February 16, 1945, Serial No. 578,183**
**3 Claims. (Cl. 46—134)**

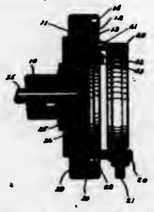
1. A stelliform, balancing toy comprising a hollow central body, and more than two hollow arms radiating from the circumference of the body providing a body adapted to roll over a supporting surface, the arms being spaced apart at distances small enough so that any arm may become conveniently a supporting arm, the arms



having outer end portions presenting supporting surfaces which are convexed both circumferentially of the toy and transversely thereof, and a ball-weight movable in the toy and of such diameter as to enter any of the arms.

---

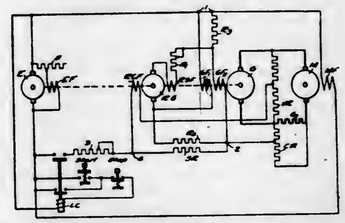
**2,389,366**
**CHUCK**
**Alvin J. Jones, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.**
**Application May 20, 1943, Serial No. 487,742**
**2 Claims. (Cl. 279—46)**



1. A chuck comprising a base member, a flexible plate secured thereto, jaws on said plate for gripping or releasing a work piece in response to flexing of said plate, and means for controlling the flexing of said plate which consists of substantially inflexible sections at the center of said plate and at the portion where said jaws are located and flexible sections between said inflexible sections and between said jaw section and the outer edge of said plate.

---

**2,389,367**
**CONTROL SYSTEM**
**George E. King, Swissvale, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 27, 1944, Serial No. 542,403**
**8 Claims. (Cl. 172—179)**

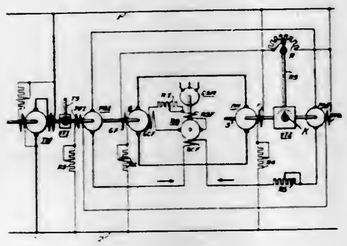


1. In a system of control for a direct current motor having an armature winding and a field winding, the combination of, a main generator

having an armature winding and a pair of field windings, circuit means electrically connecting the armature winding of said generator and the armature winding of said motor in series circuit relationship, an electrical bridge circuit, said pair of generator field windings being connected in opposite legs of the electrical bridge circuit, electrical resistance means connected in the remaining opposite legs of the bridge circuit for electrically balancing the bridge circuit, a regulating generator having an armature winding, a series field winding and a separately excited field winding, a resistor connected in series with the series field winding and armature winding, said armature winding, series field winding and series resistor being connected across the output terminals of said bridge circuit, a source of constant direct current potential for energizing the motor field winding and said bridge circuit, means for producing a voltage proportional to the motor armature voltage, means for producing a voltage proportional to the motor armature current, means for producing a voltage proportional to the electrical energy supplied to the electrical bridge circuit from said source, circuit means interconnecting the voltage producing means, and circuit means connecting the separately excited field winding of said regulating generator across said voltage producing means.

---

**2,389,368**
**CONTROL SYSTEM**
**George E. King, Swissvale, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 20, 1944, Serial No. 545,754**
**11 Claims. (Cl. 172—239)**

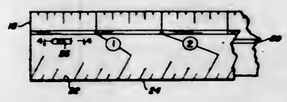


1. In combination, a driving element, means for producing a first electrical quantity proportional to the speed of operation of said element, means for producing a second electrical quantity proportional to the speed of operation of said element, a driven element responsive to said second mentioned electrical quantity, means for producing a third electrical quantity proportional to the speed of operation of said driven element, circuit means for connecting said means for producing said first and third electrical quantities in electrical opposition and producing an electrical quantity which is the differential of said first and third electrical quantities and means responsive to the differential of the first and third electrical quantities for controlling said means for producing said second electrical quantity.

8. The method of controlling the ratio of the speeds of a motor and a reference element which comprises the steps of, producing a first electrical quantity proportional to the speed of said element, producing a second electrical quantity proportional to the speed of said element, energizing the motor with the second electrical quantity, producing a third electrical quantity proportional to the speed of said motor, producing an electrical quantity which is the differential of the first and third electrical quantities utilizing the differential electrical quantity to control the second electrical quantity, varying the second electrical quantity independently of the speeds of the motor and the element to change the ratio of the speeds of the motor and the element, and maintaining the value of the third electrical quantity independent of the speed change of the motor due to the independent variation of the second electrical quantity.

---

**2,389,369**
**COMPUTER SCALE**
**Howard B. Kittleson, Salt Lake City, Utah**
**Application March 12, 1943, Serial No. 478,914**
**2 Claims. (Cl. 33—111)**



2. A computer scale comprising strip means including: an elongated base member having greater width than thickness, a graduated scale along one edge of said base member, said strip means also including a U-shaped member to enclose said base member aside from the portion whereon is displayed said graduated scale, a graduated scale inscribed upon said U-shaped member and having sub-divisions of the same order but incommensurable with relation to said first scale, and a lead line on the U-shaped member from at least one major point in the scale thereon to a point registrable with a correlative major point in the scale on the base member.

---

**2,389,370**
**PLASTIC COMPOSITION**
**William W. Koch, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 25, 1943, Serial No. 511,709**
**7 Claims. (Cl. 106—189)**

1. A plastic composition comprising ethyl cellulose and from about 0.5% to about 3% of a catechol, having a para-mono substituted methyl group, as a stabiliser therefor.

---

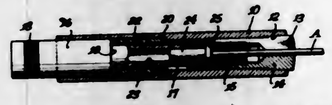
**2,389,371**
**PRINTING INKS**
**John W. Kroeger, Drexel Hill Plaza, and Daniel J. O'Connor, Jr., Yeadon, Pa., assignors to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application July 26, 1944, Serial No. 546,738**
**6 Claims. (Cl. 106—30)**

1. A printing ink comprising a suspension of pigment in a vehicle consisting of a resin dissolved in a liquid polyglycol and a proportion of a liquid selected from the class consisting of pine oil and mono-terpinyl ethylene glycol ether effective to prevent "fill-in" in half-tone plates but insufficient to substantially interfere with the speed of steam-drying of said ink.



---

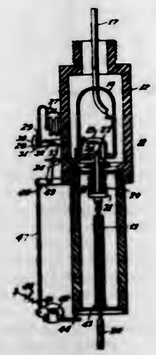
**2,389,372**
**COLLET HOLDER**
**William C. Lea, Los Angeles, Calif.**
**Application October 28, 1943, Serial No. 507,942**
**1 Claim. (Cl. 279—53)**



A collet holder comprising a tubular body having a cylindrical axial bore therethrough the forward end of which is tapered correspondingly to the external taper of a collet, a contractible collet having a cylindrical portion fitting the cylindrical portion of the bore and having an externally tapered head adapted to be drawn against the tapered interior of the body, the rear end of the body being internally enlarged to provide a rearwardly facing shoulder, an actuator fitting the internally enlarged portion of the body and projecting rearwardly from the body, the forward end of the actuator being externally reduced providing a forwardly facing shoulder and being threaded into the rear of the collet, and a compression spring disposed between the shoulders and around the forwardly extending portion of the actuator, the actuator being tubular from end to end thereof, and a stop having a shank receivable in the forward end of the actuator and a head adapted to abut against the forward end of the actuator within the collet for limiting the extent to which articles may be inserted through the collet.

---

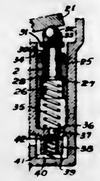
**2,389,373**
**PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS**
**Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 24, 1942, Serial No. 463,208**
**8 Claims. (Cl. 200—81.5)**



1. In a protective device for electrical apparatus provided with electrical coils and a body of dielectric disposed in a closed container, in combination, a switch connected in circuit relation with the coils, means for operating the switch, a pressure responsive device disposed to receive the pressures developed in the dielectric, a temperature responsive device disposed to operate upon changes in temperature in the dielectric, the pressure and temperature responsive devices being disposed to compensate for the operations of each other within a range resulting from temperature and pressure changes caused by the operation of the electrical apparatus within predetermined limits, the pressure and temperature responsive devices serving to control the functioning of said switch operating means, whereby the switch is actuated only when the operating conditions are outside of the predetermined limits established for the electrical apparatus.

---

**2,389,374**
**HIGH-PRESSURE HYDRAULIC PUMP**
**René Lucien Levy, Paris, France, assignor to Societe d' Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland**
**Application May 4, 1943, Serial No. 485,663**
**In France May 9, 1941**
**1 Claim. (Cl. 103—178)**



A high pressure pump comprising at least one cylinder, a piston slidable in said cylinder and including a hollow body and a head formed with a bore, a ring slidable in said bore, an internal shoulder in said bore forming a stop for said ring, the terminal of said bore at the end of the piston head constituting a valve seat, an inlet valve engageable with said seat and having a hollow stem slidable in said bore and abutting said ring, the portion of the stem adjacent said valve having a radial port therein, a spring tending to move the ring in one direction against the shoulder and thereby open said valve and actuate the piston, and means for closing the valve and moving the piston in the opposite direction.

---

**2,389,375**
**DEVICE FOR BOLTING UP DOUBLE WINDOWS CONNECTED WITH ONE ANOTHER**
**Josef Enar Lundholm, Stockholm, Sweden**
**Application February 4, 1943, Serial No. 474,667**
**In Sweden June 13, 1941**
**5 Claims. (Cl. 20—56.5)**

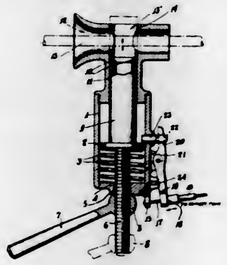


1. In combination, a pair of sashes connected with one another, an eccentric lock mounted

between said sashes, a press-stud mounted between said sashes adjacent to said lock, said lock including means for locking said sashes and means for pressing said sashes and said press-studs apart when said sashes are opened.

---

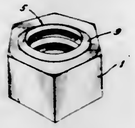
**2,389,376**
**MEANS FOR CUTTING OFF TOWING CABLES AND THE LIKE**
**Sven Gustaf Adolf Mandin, Norrkoping, Sweden**
**Application May 25, 1943, Serial No. 488,392**
**In Sweden March 18, 1941**
**5 Claims. (Cl. 164—47)**



1. A device for cutting off towing cables and the like, comprising a tubular cable guide having a transverse recess, a cutter having a pair of substantially parallel edges respectively cooperating with the edge of said recess, means mounting said cutter for movement through said recess transversely of said guide, a cylinder, a plunger movable in said cylinder for driving said knife, a spring for driving said piston, and locking means for releasably restraining said piston against driving movement.

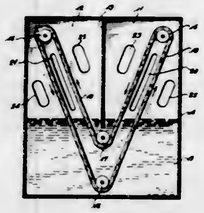
---

**2,389,377**
**LOCK NUT**
**Richard C. Manning, San Gabriel, Calif.**
**Application May 19, 1944, Serial No. 536,232**
**3 Claims. (Cl. 151—7)**



1. A lock nut comprising a nut having a body portion of comparatively hard material and having a screw thread on a portion of its bore, with a recess around said bore at the base of said nut, an annular lock nut section of comparatively soft material in said recess and rigidly united therewith, said lock nut section having a screw thread forming a continuation of the thread in said body portion and of the same pitch, said lock nut section having an extension beyond the face of the base of said body portion, said lock nut section adjacent the end thereof opposite said extension being provided with an annular recess facilitating locking action of said lock nut section.

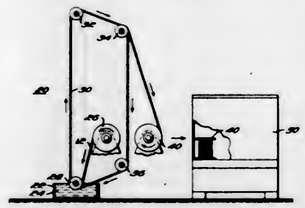
**2,389,378**
**CATALYTIC CONVERSION SYSTEM**
**Milton M. Marisic, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**Application June 14, 1944, Serial No. 540,293**
**6 Claims. (Cl. 196—52)**



1. The process of converting hydrocarbons which comprises passing an endless belt of adsorbent porous fibers of silica-alumina hydrogel in a continuous path including a reaction zone, a regeneration zone and at least one purge zone wherein the belt is immersed in a bath of molten lead, passing hydrocarbon vapors at conversion conditions of temperature and pressure in contact with said fibers in said reaction zone, purging hydrocarbon vapors from said fibers in said purge zone, contacting oxidizing gas with said fibers in said regeneration zone and returning regenerated fibers to said reaction zone.

---

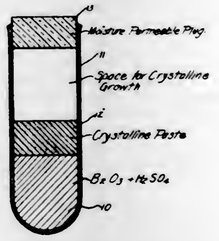
**2,389,379**
**ELECTRICAL INSULATION**
**Leon McCulloch, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application December 3, 1942, Serial No. 467,755**
**5 Claims. (Cl. 117—65)**



4. The method of insulating electrical conductors with the resin derived from reacting substantially equivalent proportions of maleic anhydride and styrene which comprises dissolving the resin in a solvent, adding a high boiling point alcohol and thereafter adding nitric acid in the proportion of 1% to 5% of the weight of the resin whereby an enamel of predetermined characteristics is obtained, applying the enamel to an electrical conductor, heat treating the applied enamel to remove the solvent whereby an insulating enamel coating is produced, and further heat treating the applied insulating enamel at a temperature of from 85° C. to 150° C., for a prolonged period of time to increase the hardness, toughness and moisture resistance of the enamel.



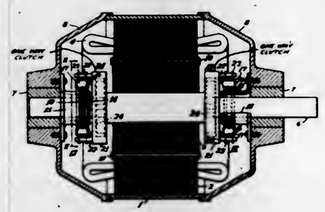
**2,389,380**
**DRYING AGENTS OR DESICCANTS**
**Leon McCulloch, Pittsburgh 6, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 5, 1943, Serial No. 474,879**
**3 Claims. (Cl. 252—194)**




1. A drying agent consisting of 95 to 5 parts by weight of boric oxide treated with from 5 to 95 parts by weight of sulphuric acid.

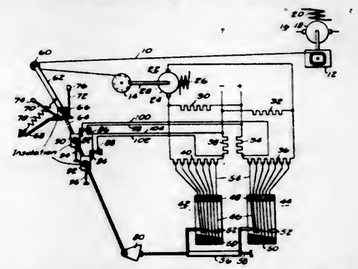
---

**2,389,381**
**REVERSIBLE SINGLE-PHASE MOTOR**
**Alexander McLennan, Norwood, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 23, 1943, Serial No. 484,133**
**13 Claims. (Cl. 172—279)**



1. A reversible, single-phase induction motor comprising a stator member, a main primary winding and an auxiliary primary winding on said stator member, a rotor member, a secondary winding on said rotor member, means for connecting said primary windings to a single-phase supply line, said connecting means including means for reversing the connection of one of said primary windings with respect to the other to effect reversal of the direction of rotation of the motor, a pair of independently operable speed-responsive switches, each of said switches being normally closed and being adapted to move to open position when actuated at a predetermined speed of the motor, means for connecting one of said switches in series with said auxiliary winding when the primary windings are connected for one direction of rotation and for connecting the other of said switches in series with the auxiliary winding when the primary windings are connected for the opposite direction of rotation, means for actuating one of said switches only when the motor is running in one direction, and means for actuating the other of said switches only when the motor is running in the opposite direction.

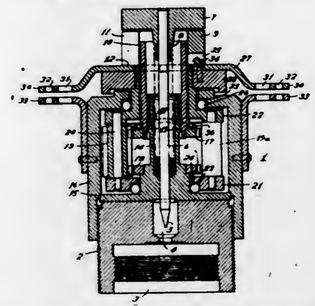
**2,389,382**
**REGULATING SYSTEM**
**Stanley J. Mikina, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 21, 1944, Serial No. 527,450**
**12 Claims. (Cl. 172—239)**



12. In a regulating system, in combination, a motor the speed and direction of operation of which is to be controlled, a generator connected to supply current to the motor, a pair of opposed field windings for controlling the excitation of the generator, a pair of resistor circuits each of which is connected in circuit relation with one of the field windings, means disposed for operation to inversely vary the resistance of the pair of resistance circuits, a member disposed for rotational movement in response to operating conditions of the motor, means responsive to positional movement of the rotatable member for effecting the operation of the inversely varying means, and means responsive to directional movement of the rotatable member disposed for selectively effecting quick initial changes in the resistance of the resistor circuits to effect quick initial changes in the excitation of the generator, the quick change means being disposed to maintain the initial change in the selected field circuit for the duration of the directional movement.

---

**2,389,383**
**BOMB NOSE FUSE**
**Andrew J. Nicholas, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 13, 1942, Serial No. 465,412**
**6 Claims. (Cl. 102—81.2)**

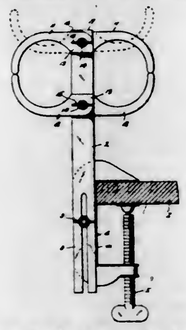


1. In a fuse housing the combination of a housing for connection to the nose of an aerial bomb, the combination of a sleeve movable axially with respect to said housing to an arming

position, and driving means for said sleeve comprising an arming hub having a threaded connection with said sleeve, a pair of differential gears respectively mounted on said hub and said sleeve, a planetary gear engaged with said differential gears, a cage for said planetary gear comprising a pair of parts rotatably mounted in said housing, each of said parts respectively supporting an end of said planetary gear, and a propeller connected to one of said parts for rotating said cage and thus rotating the planetary gear about said differential gears.

---

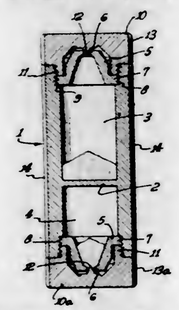
**2,389,384**
**HOLDER FOR FISHING POLES**
**Paul S. Odward, Lake Geneva, Wis.**
**Application June 21, 1944, Serial No. 541,317**
**3 Claims. (Cl. 248—42)**



1. A holder for fishing poles and attachment to a boat seat comprising a bar-like shank, means at one end of said shank adapted for attaching the same to said seat in upright position, and superposed pairs of hook-shaped arms pivoted on said shank and swingable thereon into laterally extending oppositely turned positions to form pairs of collars at opposite sides of the shank for holding fishing poles therein.

---

**2,389,385**
**RECEPTACLE**
**Robert G. Owen, Sherman Oaks, Calif., assignor to Robert H. Clark, West Los Angeles, Calif.**
**Application August 2, 1944, Serial No. 547,706**
**3 Claims. (Cl. 65—45)**



2. In a condiment holder, the combination of a body member having a condiment receiving chamber formed therein, internal threads formed in the end of said body member, a radially extending shoulder formed in said end of said body member, a shaker top having an opening through which the condiment may be shaken and having a radially extending flange threaded into said threads and bearing upon said shoulder, and a closure member having an annular flange threadedly received in said end of said body member, the end of said flange bearing upon said radial flange of said shaker top, and means formed upon said closure for sealing off the opening in said shaker top.

---

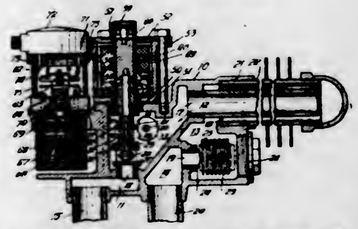
**2,389,386**
**GLAZED CERAMIC**
**Ralston Russell, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 17, 1942, Serial No. 447,377**
**7 Claims. (Cl. 117—125)**



1. A ceramic member having high physical properties comprising, in combination, a porcelain body and a smooth insulating glaze applied to the surface of the porcelain body, the glaze maturing at cones 8 to 13 and composed of from about 70% to 82% silicon dioxide, about 10% to 18% of alumina, 3% to 7% of one or more alkali metal oxides selected from the group consisting of potassium oxide, sodium oxide, and lithium oxide, and the balance including manganese oxides and fluxing oxides including one or more of the group consisting of calcium oxide, barium oxide, zinc oxide, boron oxide, and magnesium oxide, and small amounts of opacifiers and impurities being present in the glaze, the glaze being in high compression relative to the porcelain body at normal operating temperatures and so fitting the porcelain that it does not shiver or otherwise fail.

---

**2,389,387**
**RADIATOR VALVE**
**Frost B. Rutherford and John Van Vulpen, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York**
**Application January 30, 1943, Serial No. 474,688**
**3 Claims. (Cl. 236—36)**

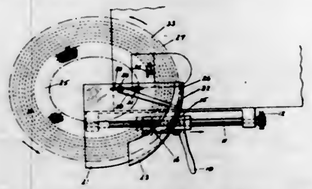


1. A valve structure for controlling the admission of steam to and the discharge of condensate from a radiator comprising a casing formed internally with a high pressure steam chamber and a low pressure steam inlet chamber for communicating therewith and with the inlet end of said radiator, a valve positioned in the low pressure inlet chamber for controlling the admission of steam thereto, a thermostat chamber in said casing communicating with the return end of the radiator, a discharge chamber in said casing having a port communicating with said thermostat chamber and a thermostatic valve positioned in said thermostat chamber in close relation to the return end of said radiator for opening and closing said port.



---

**2,389,388**
**AUTOMATIC DEVICE FOR STITCHING HATBRIMS**
**Morris Schloss, New York, N. Y.**
**Application May 20, 1944, Serial No. 536,456**
**3 Claims. (Cl. 112—2)**



1. In combination with a stitching machine, a holder adapted to hold a hat-brim for feeding movement thereof through the holder by the feed dog of the machine, said holder comprising a substantially flat bottom plate with an arcuate end, a curved side member of the same curvature as said arcuate end with a resilient spring finger at one end of said side member, a top plate, an opening between said top and bottom plate to permit hat brims of different dimensions to be stitched, a resilient movable holding arm for retaining the hat brim during the stitching operation, a split follower, finger pieces for opening said split follower against spring tension, a threaded shaft of uniform outside diameter and varying pitch, a pin in said follower adapted to ride within the thread of said threaded shaft for moving said follower and holder laterally of the line of feeding movement by the feed dog of said machine when said threaded shaft is rotated.

---

**2,389,389**
**MANUFACTURE OF SYNTHETIC CAMPHOR**
**Fryderyk Schwartz, Stockholm, Sweden**
**No Drawing. Application April 18, 1942, Serial No. 439,610. In Sweden February 12, 1941**
**9 Claims. (Cl. 260—588)**

1. A method of manufacturing synthetic camphor which comprises reacting p-cymene with a reagent of the group consisting of water and a mixture consisting of 2 parts by volume of hydrogen and 1 part by volume of oxygen in the presence of a catalyst of the group consisting of mercury and mercury compounds at a temperature of at least about 35° C. but not exceeding the decomposition temperature of p-cymene and camphor.

---

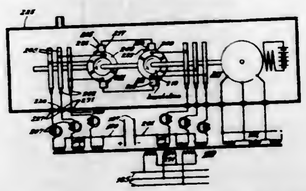
**2,389,390**
**COMBINED PROTECTIVE ENCLOSURE AND SUPPORT FOR INFANTS' FEEDING BOTTLES**
**Eli E. Silverman, Brooklyn, N. Y., and Marcus Greene, Caldwell, and Seymour Greenspan, Newark, N. J.**
**Application January 17, 1945, Serial No. 573,190**
**10 Claims. (Cl. 215—11)**

1. A combined enclosure and support for the purposes described comprising an upwardly open lower cover section within which an infant's feeding bottle having a nipple end may be inserted with its nipple end projecting therefrom, an upper cover section affixed to said lower cover section to extend beyond the upper end of the latter, said upper cover section being laterally foldable to closed position around said lower cover section and said nipple end of a bottle contained therein, means to releasably retain said upper cover section in such closed position, a pad section extending longitudinally from the upper extremity of said upper cover section, said pad section being movable to engage in and across the open end of the closed upper cover section whereby to close said open end, said upper cover section, when opened, being adapted to be folded into underlying relation to the lower cover section and said pad section being adapted to be folded into underlying relation to said thus positioned upper cover section, whereby to support the lower cover section and contained bottle on a side thereof with the bottle downwardly inclined toward its projecting nipple end.



---

**2,389,391**
**ENERGY CONVERTING APPARATUS**
**Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Original application September 20, 1939, Serial No. 295,727. Divided and this application December 3, 1942, Serial No. 467,761**
**2 Claims. (Cl. 175—364)**



1. For use in supplying a load circuit with power from a source of a given frequency the combination comprising a vacuum-tight container, having a gaseous medium at a pressure of the order of one to two centimeters of mercury therein, commutator means within said container, said commutator means including segments and cooperative brush means and said brush means each having an arcing tail parallel to the periphery of said segments and spaced approximately .1 of a centimeter therefrom for striking an arc on the disengagement of said segments and said brush means, a synchronous motor energized from said

source of given frequency for rotating said commutator means within said container, and connections for interposing said commutator means between said source and said circuit.

---

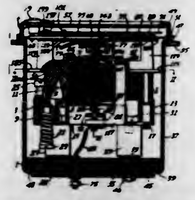
**2,389,392**
**CIRCUIT INTERRUPTER**
**Albert P. Strom, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 7, 1944, Serial No. 543,815**
**10 Claims. (Cl. 200—120)**



9. In a fuse, a fuse tube, conducting means in the fuse tube between which an arc is formed on interruption of the circuit, the fuse tube composed of sheets of fibrous material, a binder and ammonium borate, the ammonium borate evolving an arc extinguishing gas when subjected to the action of an arc.

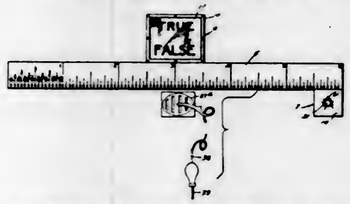
---

**2,389,393**
**ELECTRICAL MEASURING INSTRUMENT**
**Veron S. Thomander, Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 2, 1943, Serial No. 500,895**
**33 Claims. (Cl. 171—95)**



1. In a permanent-magnet moving-coil device having parts located between a pair of parallel, spaced planes, a first magnetic pole-piece positioned substantially between said planes, a second magnetic pole-piece spaced from said first magnetic pole-piece to define therewith an air-gap positioned substantially between said planes, a permanent magnet substantially positioned between said planes and having first and second magnetic pole-faces disposed respectively substantially in said spaced planes, said first and second magnetic pole-pieces having portions cooperating respectively with said pole-faces for directing magnetic flux from said permanent magnet through said air-gap, a coil having a portion disposed in said air-gap, and means mounting said coil for rotation about an axis intercepting said planes.

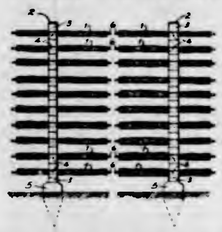
**2,389,394**
**ELECTRIC MATHEMATICAL EDUCATIONAL APPLIANCE**
**Allan H. Thomas, Butte, Mont., assignor of one-half to Joseph L. Lenz, Butte, Mont.**
**Application February 19, 1944. Serial No. 523,141**
**2 Claims. (Cl. 35—48)**




1. A didactic measuring apparatus for training persons in the use of measuring systems comprising a rule provided with graduation marks indicating several length units and small fractions of said units, each graduation mark being provided with a contact, and corresponding fractional contacts in successive units being connected with each other, a switch provided with two rows of contacts, each contact of a row being connected with one of the graduation mark contacts, two indicator signals arranged in different circuits and a test contact arranged in a branch common to both aforesaid circuits said test contact being manipulated by the person using the apparatus and adapted to be brought into operative connection with the graduation mark contacts, a manually operated sliding means on said switch, said switch being provided with means for closing all the circuits connected with one indicator signal over any one of the connections between switch contacts and graduation marks but one, when the test contact is operated, and further provided with means for opening all the circuits through the other indication signal while at the same time closing the circuit of one contact and graduation mark through said signal.

---

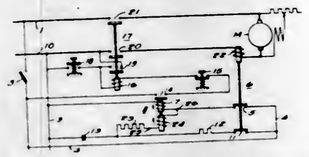
**2,389,395**
**SNOW FENCE**
**Poul Tholstrup, Roskilde, Denmark; vested in the Alien Property Custodian**
**Application February 3, 1940, Serial No. 317,139**
**In Denmark February 9, 1939**
**3 Claims. (Cl. 256—12.5)**



1. A snow fence, comprising in combination a number of bands made of straw that is affixed to a rope-like carrier member transversely thereto, a number of carrier posts spaced a distance from each other, and supporting means applied to the posts for carrying the bands in horizontal rows above each other, said supporting means being so spaced relatively that the bands may swing free of each other between the posts.



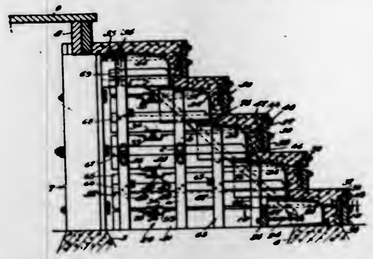
**2,389,396**
**TIME DELAY CIRCUITS**
**Amos J. Winchester, Jr., Swissvale, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 28, 1943, Serial No. 488,937**
**9 Claims. (Cl. 175—294)**



1. In a system of control, in combination, a load circuit, a source of direct current power comprising a pair of energized terminal conductors, a normally closed double pole switch operable to open in response to an operating characteristic of the load circuit, a current limiting resistor and a capacitor connected in series with each other connected to said terminal conductors through one pole of said switch, a relay having make contact members and two actuating coils, one of said coils of few and relatively heavy turns being connected to said terminal conductors through the other pole of said switch, the second coil having many relatively fine high resistance turns, a high resistance resistor and said second coil being connected in series circuit, one terminal of this last-named series circuit being connected between the capacitor and the current limiting resistor and the other terminal of this last-named series circuit being connected between the first-named coil and the said other pole of said switch.

---

**2,389,397**
**FORM FOR CONSTRUCTING STEPS**
**Ralph O. Zimmerman, Des Plaines, Ill.**
**Application June 9, 1944, Serial No. 539,539**
**3 Claims. (Cl. 25—118)**

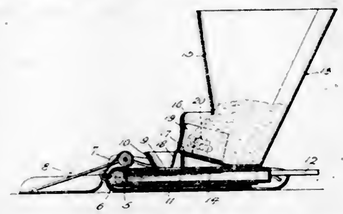


1. A concrete stairway form comprising riser forms, side supporting structures for the riser forms and inside step forms supported by the said side supporting structures, said side supporting structures each including a plurality of props each constructed of hinged knock down sections.

---

**2,389,398**
**TOBACCO FEEDING DEVICE**
**George Zint, Wapakoneta, Ohio**
**Application August 3, 1944, Serial No. 547,859**
**7 Claims. (Cl. 131—44)**

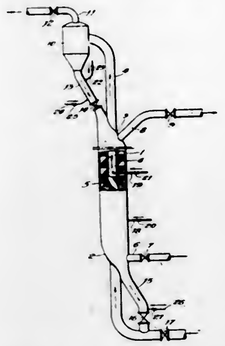
1. A filling device for a cigarette rolling machine, comprising a substantially flat casing having an open front end for insertion into a tobacco receiving channel of the rolling machine, the top of said casing having a tobacco entrance slot and a tobacco measuring hopper surrounding said slot, and a forwardly and rearwardly slidable plunger in said casing, said plunger being



movable to one position in which it closes said slot and forms a bottom for said tobacco measuring hopper, being movable rearwardly from said one position to open said slot and permit the measured tobacco to enter said casing, and being then movable forwardly to force the measured tobacco into the machine.

---

**2,389,399**
**METHOD AND APPARATUS FOR CONTACTING FINELY DIVIDED SOLID PARTICLES WITH FLUIDS**
**Joseph G. Alther, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application May 27, 1943, Serial No. 488,681**
**14 Claims. (Cl. 196—52)**



1. A continuous process for the conversion of hydrocarbon oils which comprises passing finely divided solid cracking catalyst particles in a downward direction and with substantially uniform cross-sectional particle distribution through a zone maintained at a cracking temperature, simultaneously passing hydrocarbon vapors helically through said zone in an upward direction in contact with said catalyst particles whereby said hydrocarbon vapors are converted and a carbonaceous material is deposited upon said catalyst particles, withdrawing said catalyst particles having said carbonaceous deposit and passing them commingled with oxygen-containing gas in an upward direction in heat exchange relation with but out of contact with said hydrocarbon vapors and said downward passing catalyst

particles whereby said carbonaceous deposit is removed from said upward passing catalyst particles by combustion, separating the thus reactivated catalyst particles from the products of combustion and returning said reactivated catalyst particles to said zone to again pass downwardly therethrough.

9. An apparatus for contacting finely divided solid particles with a fluid which comprises in combination a vertically elongated closed vessel, at least one conduit extending through said vessel from one end to the other thereof, at least one perforate helical flight extending within said vessel from adjacent its lower end to adjacent its upper end, said conduit and helical flight being so arranged that they in combination occupy substantially the entire cross-sectional area of said vessel, means for introducing finely divided solid particles to the upper end of said vessel, means for withdrawing said solid particles from the lower end of said vessel, means for introducing fluid to the lower end of said vessel, means for withdrawing fluid from the upper end of said vessel and means for passing a heat convective fluid through said at least one conduit.

---

**2,389,400**

## LOCKING MECHANISM FOR ELECTRIC SWITCHES

James M. Anderson, Broomall, Pa., assignor to General Electric Company, a corporation of New York

Application June 30, 1942, Serial No. 449,060
16 Claims. (Cl. 200—89)



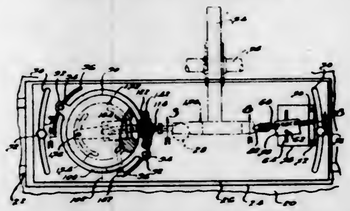
1. In a locking mechanism for an electric switch having relatively movable cooperating contacts provided with actuating means for effecting a circuit closing movement thereof together with means for holding the contacts in the circuit closing position and means for releasing the holding means; locking means movable from an initial position to another position to prevent the release of the holding means and to a third position to prevent relative movement of the contacts, and a rotatable member for effecting the movement of said locking means longitudinally movable in one direction while the locking means is in the initial position to effect the release of the holding means.

**2,389,401**

## MECHANISM FOR RELIEVING THE TEETH OF CIRCULAR CUTTING ELEMENTS

Rudolf W. Andreasson, Detroit, Mich.

Application December 17, 1942, Serial No. 469,368
6 Claims. (Cl. 51—95)



4. In a device of the class described, in combination, a head stock, a center member axially slidably but non-rotatably mounted in said head stock, a center point member swivelably mounted upon one end of said center member, a driving member rotatably mounted upon said center point member and swivable therewith, an axially facing cam fixed to said driving member and rotatable therewith, means fixed with respect to said head stock in engagement with said cam whereby rotation of said driving member acts through said cam and fixed means to move said center member axially thereof.

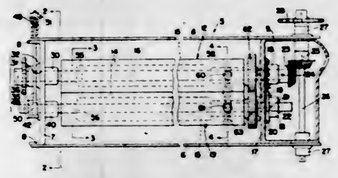
---

**2,389,402**

## HUSKING MECHANISM

Norman F. Andrews, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application January 31, 1944, Serial No. 520,566
6 Claims. (Cl. 130—5)



1. In combination, a pair of roll shafts, a pair of bearings disposed on relatively fixed centers for supporting adjacent ends of said shafts, respectively, power transmitting means connected with said shafts near said bearings, for driving said shafts in relatively opposite directions, a second pair of bearings for supporting the opposite ends of said shafts, respectively, supporting means for said second pair of bearings providing for relative movement toward and away from each other, resilient means for urging said bearings toward each other, a pair of hollow rolls mounted on said shafts, respectively, between the bearings, means securing the ends of said rolls adjacent said second pair of bearings to said shafts but permitting the rolls to shift angularly about axes perpendicular to said shafts adjacent the last mentioned ends, thereby permitting the ends of said rolls adjacent said fixed bearings to move apart, and resilient means disposed between said shafts and their respective rolls for yieldingly retaining said rolls in coaxial relation to said shafts, respectively.

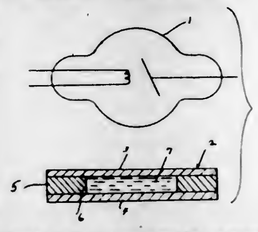


**2,389,403**

## METHOD AND APPARATUS FOR REMOVING HAIR FROM THE HUMAN BODY

Violet Arnold, Detroit, Mich.

Application September 25, 1943, Serial No. 503,761
6 Claims. (Cl. 250—86)



1. A method of permanently removing hair from the human body comprising the steps of subjecting the portion of the body from which the hair is to be removed to X-rays from a tube to which is applied 60 to 70 kv. and filtering the X-rays in a series of treatments of 5 to 10 minutes exposure through a sheet of aluminum having a thickness of one-half to one millimeter (½ to 1 mm.) for at least two treatments and through a laminated filter constituting spaced sheets of aluminum and an intervening body of water for the remaining treatments, administering such treatments in three successive treatments on three successive days at intervals spaced from three to five weeks, and after an elapse of eight to twelve weeks subjecting the treated portion to filtered rays monthly for a period of ten to fifteen minutes.

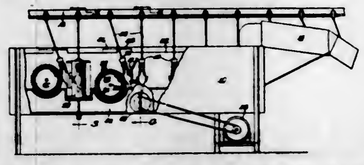
---

**2,389,404**

## METHOD OF AND APPARATUS FOR DEFEATHERING FOWLS

Seth S. Barker, Ottumwa, Iowa

Application September 5, 1940, Serial No. 355,415
23 Claims. (Cl. 17—11.1)



1. Apparatus for defeathering fowls consisting of a tank, a conveyor over said tank, means for supporting fowls from said conveyor in inverted position, and water jets in said tank for directing streams of water at high velocity onto fowls therein, for removing feathers from said fowls.

---

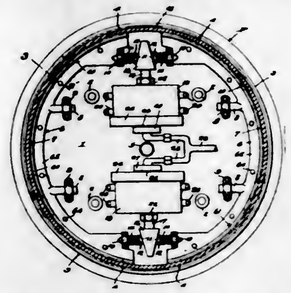
**2,389,405**

## HYDRAULIC BRAKE

Roy R. Birchfield, Shreveport, La.

Application January 12, 1944, Serial No. 518,005
3 Claims. (Cl. 188—152)

1. In a vehicle brake, a support and means for mounting it fixedly on a vehicle, a wheel-carried drum, oppositely-disposed shoes movably mounted on the support and engageable with the drum, oppositely-disposed guides of approximately cylindrical form fixedly mounted on the support and having inner and outer end walls, cylinders carried by the inner end walls, means for supplying fluid pressure to the inner ends of the cylinders, approximately cylindrical slides mounted for reciprocation in the guides and having inner and outer end walls, sleeves carried by the inner end walls of the slides and mounted to reciprocate on the cylinders, guide rings secured, respectively, to the outer surfaces of the sleeves and to the inner surfaces of the slides, guide brackets secured to the cylinders and having annular ribs slidably received between the corresponding



rings, piston rods secured to the outer end walls of the slides and received slidably in the outer end walls of the guides, pistons on the rods and slidable in the cylinders, compression springs interposed between the outer end walls of the guides and of the slides, cushions secured to the ribs and engageable with the rings, under the impulse of the springs, and coacting means on the rods and on the shoes for pressing the shoes against the drums when the pistons move outwardly.

---

**2,389,406**

## PRODUCTION OF OLEFINIC HYDROCARBONS

Herman S. Bloch, Riverside, and Raymond E. Schaad, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application January 20, 1944, Serial No. 518,996
14 Claims. (Cl. 260—683.2)

1. A process for producing normal and iso-olefins which comprises subjecting a normal paraffin to the simultaneous action of a dehydrogenating catalyst comprising alumina and a promoter comprising a compound of an element selected from the left-hand columns of Groups V and VI of the periodic table and an isomerizing catalyst comprising a composite of silica and thoria.

---

**2,389,407**

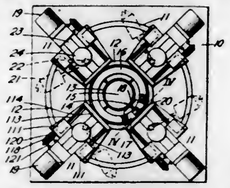
## MILLING AND LIKE MACHINE FOR COPYING AND REPRODUCING

John Thomas Bolas, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a company of Great Britain

Application September 12, 1943, Serial No. 502,182
In Great Britain July 28, 1942
8 Claims. (Cl. 90—13.5)

1. A milling or like machine comprising a cutter support and a work support, which cutter support is mounted for movement relatively to the work support along two substantially perpendicular paths, a pattern support and a follower to co-operate with a pattern on the pattern support, which follower is mounted for movement relatively to the pattern support along two paths

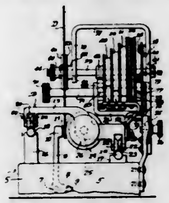
parallel to the aforesaid paths and is so interconnected with the cutter support that their compounded relative movements are similar, two reversible hydraulic motors arranged one to impart the said relative movement to the cutter support and the follower along one pair of parallel paths and the other along the other pair of paths, a separate variable delivery pump and re-



lief valve for supplying each motor with motive fluid at constant pressure, means for independently varying the delivery of each pump, and control means automatically operable to adjust the direction of operation of each motor and the rate at which motive fluid is supplied to it in accordance with the configuration of a pattern on the pattern support and the position of the follower relatively to that pattern.

---

**2,389,408**
**ATTACHMENT FOR TYPEWRITING MACHINES**
**Albert W. Boyd, Detroit, Mich.**
**Application April 28, 1944, Serial No. 533,140**
**19 Claims. (Cl. 197—180)**

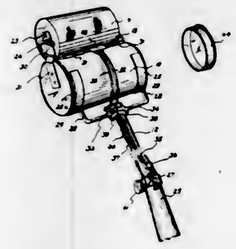


1. A circular printing attachment for typewriting machines having a platen and carriage therefor, comprising bracket means adapted to be affixed to the frame of said typewriting machine, a rotary shaft carried by said bracket means extending forwardly and above said carriage for rotatably supporting a sheet of paper with the peripheral portion thereof positioned in close proximity to the platen of said typewriting machine, and means drivingly connecting said carriage to said rotary shaft and responsive to the operation of said carriage for rotating said sheet of paper.

---

**2,389,409**
**PAINTING MACHINE**
**John Brzeski, Toronto, Ontario, Canada**
**Application January 13, 1945, Serial No. 572,675**
**2 Claims. (Cl. 91—50)**

2. A machine of the kind described, comprising a tank for liquid paint, the tank being open at its upper side, a roller mounted horizontally over said opening on its axle ends in brackets having downwardly extending slots therein, a paint supplying drum mounted for rotation within the tank, parallel to the roller and in frictional contact with its surface, to be rotated thereby, lever means applicable to the roller to lift said roller above the drum, to discontinue



frictional contact therewith, and means to support the tank with the roller thereon for operation.

---

**2,389,410**
**FOUNDATION GARMENT**
**Abe Meyer Butow, New York, N. Y., assignor to Artistic Foundations, Inc., New York, N. Y., a corporation of New York**
**Application May 14, 1942, Serial No. 442,980**
**2 Claims. (Cl. 2—38)**



1. In a foundation garment having a brassière portion made of frail fabric and having a linear opening extending from the uppermost edge of said brassière portion to an intermediate portion of said garment and being defined by continuous fabric tapes secured to the side edges of said opening, said tapes carrying complemental slide-fastener elements extending upwardly and terminating substantially at the lower level of said frail fabric, a continuous strip of eye-bearing fabric secured to said garment along one side edge of said opening and underneath one of said tapes, each of said eyes being secured directly to said strip and lying fully exposed on said strip when the fasteners are detached, hooks secured directly to one of said slide-fastener tapes, said eyes being positioned in spaced-apart relation from the slide fastener elements secured to the side edge of the garment to which said strip is secured, said spacing being sufficient to permit the metallic portion of the complemental slide-fastener elements to enter between said eyes and slide fastener elements and lie in non-superposed relation with said eyes, said hooks lying fully exposed on said



tape when said fasteners are detached, said hooks and eyes extending along the entire length of said opening, the lower portion of the strip carrying said eyes being wider than the upper portion of said strip and being designed to overlap and shield the wearer from contact with said fastener elements when said opening is closed, said hooks and eyes at the upper portion of said garment being spaced closer together than at said lower portion and being independently adapted to absorb the stress in the upper portion of said garment, a row of reinforcing stitching at the lower end of said opening, said garment being elastic crosswise of said closure and causing said slide-fastener elements and said hooks and eyes to be under tension in use, said eye-bearing strip being non-stretchable in a direction crosswise of said linear opening and substantially equally dividing the strain with said slide-fastener, said slide-fastener comprising thin woven tapes and interlocking elements made of metal considerably thicker than said tapes, said spaced-apart relation of said eyes causing said hooks and eyes and said metallic fastener elements to lie in non-superposed relation against a substantially plane surface, thereby causing said garment at said opening to be of minimum thickness and flexible.

---

**2,389,411**
**ROOT HARVESTING MACHINE**
**Eudore Cadieux, Letellier, Manitoba, Canada**
**Application March 15, 1944, Serial No. 526,604**
**2 Claims. (Cl. 198—9)**

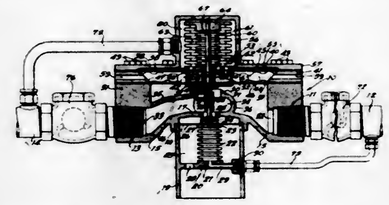


1. In a machine of the character described an element for initially gathering the material, said element comprising a plate having a flat material gathering section for travel above and in horizontal relation to the ground and an integral upwardly curved delivery section, said plate being mounted with its gathering section projecting laterally of the machine and delivering inward, an elevating conveyor carried by the machine transversely disposed and located in continuing relation to the delivery end of the plate, and a rotatable material moving element mounted above the plate, said element including material engaging members adapted on rotation of said element to effect a continuing movement of material laterally over the plate on to the conveyor.

---

**2,389,412**
**ANTIBACKFLOW AND ANTISIPHONAGE VALVE**
**Frank Carlton, Los Angeles, Calif.**
**Application September 26, 1941, Serial No. 412,372**
**13 Claims. (Cl. 277—1)**

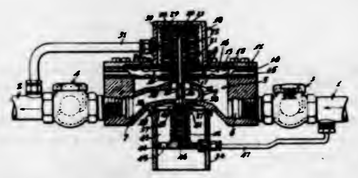
1. An anti-backflow device adapted to be interposed between an induction line and an eduction line within both of which variable fluid pressure prevails, an intermediate partition in said device having a valve opening therethrough and through which fluid may flow from the induction line to the eduction line, a main valve element for closing said opening, a check valve in the eduction line opening in the direction of normal flow, fluid pressure responsive means associated with the main valve for moving the same, the induction fluid pressure acting thereon to open the main valve, and a conduit connecting with the eduction line at a point beyond the check valve and delivering eduction fluid to the fluid pressure re-



sponsive means to exert a pressure opposing that of the induction fluid and acting to urge the main valve toward a closed position, the fluid pressure responsive means including differential pressure responsive areas acted upon by the induction and eduction fluids, whereby the main valve will close when the eduction pressure rises to a predetermined amount below the induction pressure.

---

**2,389,413**
**METHOD OF PREVENTING BACKFLOW OR BACK-SIPHONAGE IN PRESSURE SYSTEMS**
**Frank Carlton, Los Angeles, Calif.**
**Original application September 26, 1941, Serial No. 412,372. Divided and this application January 17, 1944, Serial No. 518,516**
**7 Claims. (Cl. 137—78)**



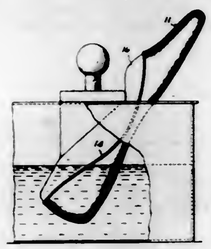
6. The method of preventing backflow in a water distribution system in which water normally flows at a higher than atmospheric pressure to an eduction line from an induction line which comprises the steps of establishing a substantial predetermined drop in a zone between the lines during normal flow and at cessation of normal flow and draining said zone to the atmosphere when the eduction pressure is less than the induction pressure by an amount less than the predetermined differential, and discontinuing the draining upon resumption of the predetermined differential.

---

**2,389,414**
**FOOT COVER**
**William E. Crofut, Jr., Beachwood Village, Ohio**
**Application October 8, 1943, Serial No. 505,431**
**1 Claim. (Cl. 36—10)**

A protective foot cover to be applied to the foot and having a knit body formed to provide

heel and toe portions and a relatively narrow shank connecting the heel and toe portions, the heel seat and counter portion being impregnated



with a solidified resilient rubber-like material and shaped to provide a form retaining but resilient heel receiving portion, the shank and the remaining portions being soft and stretchable.

---

**2,389,415**

## CONDENSATION PRODUCTS OF THE MODIFIED UREA-ALDEHYDE TYPE

**Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**

No Drawing. Application February 17, 1939, Serial No. 256,998
16 Claims. (Cl. 260—70)

1. A composition of matter comprising the resinous product of reaction, in the absence of a protein, of ingredients including (1) a polyamide selected from the class consisting of urea, thiourea, phenyl thiourea, malonic diamide, succinic diamide, citric triamide and phthalamide, (2) an aldehyde and (3) a salt of a crystalloidal amino carboxylic acid.

---

**2,389,416**

## COMPOUNDS PRODUCED FROM SALTS OF SULPHAMIC ACID AND THEIR PREPARATION

**Gaetano F. D'Alelio, Northampton, Mass., assignor to General Electric Company, a corporation of New York**

No Drawing. Original application February 17, 1939, Serial No. 256,998. Divided and this application August 6, 1943, Serial No. 497,682
20 Claims. (Cl. 260—69)

11. The method which comprises bringing into contact at reaction temperature (1) a polyamide selected from the class consisting of urea, thiourea, malonic diamide, succinic diamide, citric triamide and phthalamide, and (2) a reaction product of formaldehyde and a salt of sulphamic acid, said reaction product containing a methylol grouping.

---

**2,389,417**

## REACTION PRODUCTS OF ALDEHYDES AND TRIAZINE DERIVATIVES

**Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York**

No Drawing. Application October 12, 1942, Serial No. 461,760
22 Claims. (Cl. 260—42)

1. A composition of matter comprising the product of reaction of ingredients comprising an aldehyde and a compound corresponding to the general formula



where $n$ represents an integer and is at least 1 and not more than 3, R represents a member of the class consisting of monovalent aliphatic hydrocarbon radicals and monovalent aromatic and nuclearly halogenated aromatic hydrocarbon radicals, R′ represents a member of the class which is the same as R and in addition hydrogen, and Z represents a member of the class consisting of divalent aliphatic hydrocarbon radicals and divalent aromatic and nuclearly halogenated aromatic hydrocarbon radicals.

---

**2,389,418**

## PLYWOOD STRUCTURES AND RELATED ARTICLES AND METHOD OF MAKING THE SAME

**Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**

No Drawing. Application October 15, 1942, Serial No. 462,206
17 Claims. (Cl. 20—89)

1. A plywood body, the individual plies of which are joined together by means of an adhesive comprising (1) the resinous reaction product of an alkaline-catalyzed liquid phenol-aldehyde condensation product and a derivative of a polycarboxylic acid containing at least three carbon atoms, said derivative containing at least one —COOH radical and at least one amidated carboxylic radical having at least one hydrogen atom attached directly to an amide nitrogen and (2) from 1.75 to 4.75 per cent by weight based on the weight of (1) of an aldehyde-reactable monohydroxy aryl sulfonic acid containing a phenolic hydroxy radical.

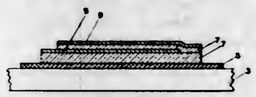
---

**2,389,419**

## PREPARATION OF ELECTRICAL CAPACITORS

**Alden J. Deyrup, Westfield, Kermit H. Ballard, Perth Amboy, and John J. Strickarz, Sewaren, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

Application October 4, 1943, Serial No. 504,884
4 Claims. (Cl. 75—22)



1. The process of preparing unitary monolithic ceramic capacitors of the type wherein the dielectric layers comprise a vitreous composition and the electrode layers comprise metallic silver, which comprises: building up alternate layers of vitreous enamel dielectric composition and metallic silver, both in the unfired condition, on a temporary base provided with a layer of a material to which said built-up elements will adhere during the building-up process, but to which they will not adhere after said built-up elements have been subjected to drying; drying the resulting structure, so rendering said structure readily removable from said temporary base; transferring said structure to a second temporary base; and firing said structure to a unitary monolithic ceramic capacitor on said secondary base.



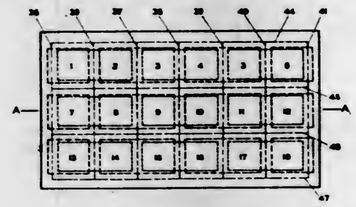
---

**2,389,420**

## MANUFACTURE OF CAPACITORS

**Alden J. Deyrup, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

Application October 4, 1943, Serial No. 504,885
3 Claims. (Cl. 75—22)



1. The method of preparing an electrical capacitor of the type comprising a plurality of vitreous enamel dielectric layers separating fired silver electrode layers which comprises: building up on a temporary supporting base a plurality of alternate layers of vitreous enamel dielectric and powdered silver suspended in suitable vehicles, said layers being built up as follows: first, placing on said temporary support a layer of vitreous enamel suspended in a suitable vehicle, said vitreous enamel layer being sufficient in extent to serve for a number of individual capacitor units; applying thereto, after said vitreous enamel layer has dried, a layer of metallic silver suspended in a suitable vehicle, said layer being applied in the form of a number of individual areas, each separated from the other, said silver being sufficient in extent to provide electrode plates for a large number of individual capacitor units; applying on top of said metallic silver layer, and over such portions of said first-named vitreous enamel dielectric layer as remain uncovered, a second layer of vitreous enamel dielectric; applying on top of said second layer of vitreous enamel dielectric, after said layer has dried, a second layer of powdered silver suspended in a suitable vehicle, said layer being applied in the form of a number of individual areas spaced from each other, sufficient in extent to provide electrode plates for a large number of individual electrical capacitor units; continuing said process, applying alternate layers of vitreous enamel dielectric and alternate layers of metallic silver suspended in a suitable vehicle, until the required number of electrode plates separated by vitreous enamel dielectric layers has been built up; and then cutting said resulting structure apart, directly through said vitreous enamel layers and metallic silver layers, to provide a large number of individual electrical capacitor units.

---

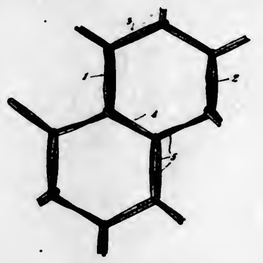
**2,389,421**

## TREATED FABRIC AND METHOD OF MAKING

**Sidney M. Edelstein, Elizabeth, N. J.**

Application March 31, 1944, Serial No. 528,986
8 Claims. (Cl. 28—80)

1. An article of manufacture comprising a knitted fabric having spaced series of warp threads and substantially closed loops extending from one of said series and interlaced with the threads of an adjacent series, so as to limit movement away from each other of the series of warp threads, the loops being in elongated condition so that the two sides of each loop are in close proximity to each other, and a cellulosic



film bridging the space within the elongated loops, holding together the two sides of the loops, restricting movement of warp threads within the loops under ordinary conditions of use and laundering and serving to set the shape of meshes in and approximate width of the fabric but not closing the meshes in the fabric.

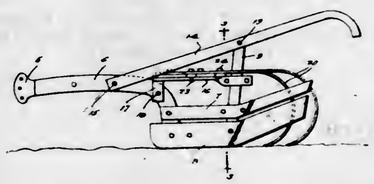
---

**2,389,422**

## CULTIVATOR

**Joe Evans, Heflin, Ala.**

Application February 1, 1944, Serial No. 520,659
1 Claim. (Cl. 97—170)



In a cultivator having a draft tongue comprising a pair of rearwardly diverging arms having depending ends, a pair of handlebars extending rearwardly and upwardly from said arms beyond said ends of the arms, a vertical frame in the rear of said arms including side members connected at upper ends thereof to said handlebars, guide plates attached to said ends of the arms and to the side members, a pair of horizontal shelves extending rearwardly from said arms and secured to said side members, cross bars secured to said shelves in forwardly converging pairs, and cultivator teeth trailing said blades and having forwardly extending shanks overlying and secured to said cross bars.

---

**2,389,423**

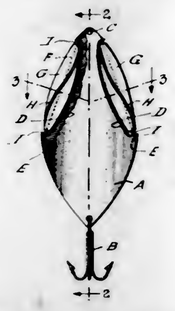
## FISHING LURE

**Vere R. Evans, Bemidji, Minn.**

Application June 23, 1944, Serial No. 541,721
1 Claim. (Cl. 43—42)

In a fishing lure, a spoon-like body comprising a dished plate having edges diverging from its

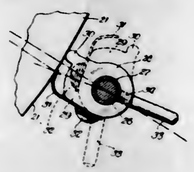
front end to approximately its transverse medial plane and converging therefrom to the rear end, the edges of the plate adjacent the front end being recessed, shafts extending substantially longitudinally of the lure through the recessed portions and anchored in the plate at the ends of the recesses, and members rotatably mounted on the shafts, each of said members having an



external surface flared from the front end thereof to about the transverse medial plane thereof and tapered therefrom to the rear end, the surface of each of the rotatable members having an outline in substantial conformation to the outline of the edge of the front portion of the plate, and each of said members having curved grooves the surfaces of which form cams resistant to water pressure.

---

**2,389,424**
**LOCKING DEVICE**
**Otto De Cardy, Chicago, Ill., assignor to The Heyer Corporation, a corporation of Illinois**
**Application January 8, 1941, Serial No. 373,594**
**6 Claims. (Cl. 188—74)**

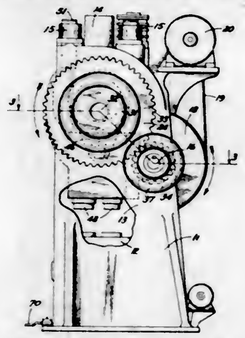


1. In combination with a cylinder, a locking device movably mounted on a rod located exteriorly of the periphery of the cylinder and having a projecting thumb having frictional braking contact with the periphery of said cylinder, a spring located on said device having frictional contact with said cylinder, and adapted to be depressed by revolution of the drum whereby the frictional contact of said thumb with the periphery of the drum is broken.

---

**2,389,425**
**METHOD AND APPARATUS FOR FORGING**
**Earl R. Frost, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio**
**Application December 5, 1940, Serial No. 368,638**
**36 Claims. (Cl. 78—39)**

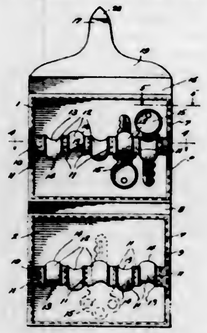
1. The method of forging comprising striking a metal work piece an impact blow with a freely falling member, and before the metal flow ini-



tiated by the impact has stopped, pressing the work piece to continue the forging thereof.

---

**2,389,426**
**KEY CONTAINER**
**Samuel H. Geffner, New York, N. Y.**
**Application March 28, 1944, Serial No. 528,468**
**1 Claim. (Cl. 150—40)**



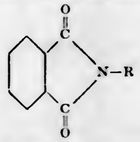
A key container comprising a main sheet of pliable material, sheets for reinforcing and stiffening the main sheet disposed flat against the inner face of the main sheet and extending the full width thereof, one reinforcing sheet having an outer end even with an end of the main sheet, the second reinforcing sheet having its inner end spaced from the inner end of the first reinforcing sheet, the main sheet having an end portion projecting from the outer end of the second reinforcing sheet and tapered to form a flap having a tongue intermediate its width, frames secured upon said reinforcing sheets and extending along side edges and end edges thereof, said frames each carrying a transversely extending strip spaced from ends of the frame and having its ends connected with side portions of the frame, each strip being secured at longitudinally spaced points and between the said points being free and forming key-receiving loops each one having one end formed with an inwardly bowed arcuate edge and having its other end projecting outwardly and formed with an outwardly bowed arcuate edge, adjoining loops of each strip having their projecting ends extending in opposite directions, said main sheet being folded between the spaced inner ends of said frames to close the key container and dispose the frames in confronting relation to each other, and said flap being folded across ends of the closed container and releasably secured to hold the container closed.

---



**2,389,427**
**INSECT REPELLENTS**
**Samuel I. Gertler, Washington, D. C., assignor to the United States of America, as represented by the Secretary of Agriculture**
**No Drawing. Application February 16, 1945, Serial No. 578,272**
**10 Claims. (Cl. 167—33)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. An insect-repellent composition comprising a liquid compound of the formula



where R is a butyl radical, incorporated in an applicator.

---

**2,389,428**
**COMBINED SPECTACLE AND TELESCOPE**
**Charles J. Glasser, Chicago, Ill.**
**Application May 23, 1945, Serial No. 595,421**
**5 Claims. (Cl. 88—41)**

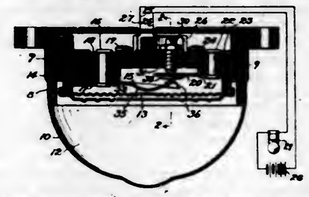


1. A spectacle telescope comprising a pair of lenses and a mounting therefor for securing them in position with respect to the eyes of the user, and a telescope mounted directly on and carried and supported solely by one of said lenses completely within and completely surrounded by the vision field of the lens on which it is mounted, said telescopic vision field being relatively small with respect to said lens vision field, said telescope comprising a supporting barrel extending forwardly from the lens, an objective lens piece mounted on the forward end of said barrel and an eyepiece mounted adjacent the rear end of the barrel, said barrel being frusto conical and tapering from front to rear, the distance between said eyepiece and objective being adjustable for focusing.

---

**2,389,429**
**THERMOSTAT**
**William B. Griffith, Stone Harbor, N. J.**
**Application November 17, 1944, Serial No. 563,927**
**7 Claims. (Cl. 200—140)**

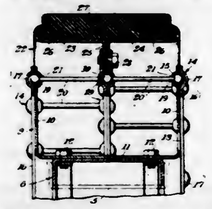
1. A thermostat having a base of insulating material, an elongated flexible metal terminal plate, means mounting one end of said plate upon the base, a second metal terminal plate mounted upon the base normally in overlapping spaced relation to the free end of said first mentioned plate, means upon the base for connecting said plates in an electric circuit, a protuberance upon one of said plates, said protuberance having a spherical surface presented toward the opposite plate, a pair of parallel ribs upon said



opposite plate presented toward said protuberance, and means for moving the free end of said first plate for engaging said protuberance and said ribs for completing said circuit.

---

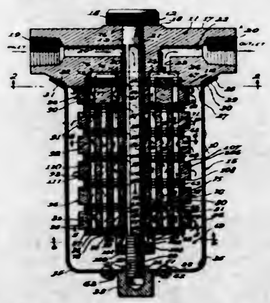
**2,389,430**
**RESILIENT TIRE AND THE LIKE**
**Eugene Hajos, Jamaica, N. Y., assignor to Ampat Corp., New York, N. Y.**
**Application April 22, 1942, Serial No. 439,977**
**6 Claims. (Cl. 152—21)**



1. A tire structure comprising an inner rim, an intermediate unit mounted on said rim and having resilient lateral walls formed with seats, an outer tread rim having a central wall disposed between said lateral walls and formed with similar seats, and a plurality of rods having spherical ends disposed in said seats and being the sole means of support between said tread rim and said intermediate unit.

---

**2,389,431**
**FILTER**
**William W. Hallinan, Mendota, Ill.**
**Application April 30, 1942, Serial No. 441,077**
**11 Claims. (Cl. 210—183)**

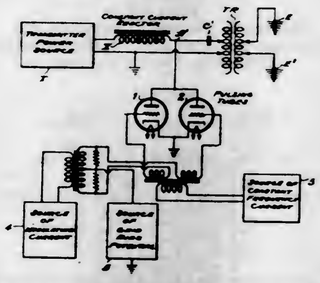


1. In a filter, an assembly comprising a support having an inlet conduit and an outlet con-

duit, one of said conduits leading to an annular conduit spaced from the center of said support, and said support having a centrally located bore provided with a threaded supporting member, and the other of said two conduits leading to said centrally located bore, said supporting member having portions of its sides removed to form liquid conduits extending longitudinally of said supporting member when associated with filter elements and pressure plates, and a plurality of filter elements and pressure plates arranged alternately on said supporting member said filter elements and pressure plates having cylindrical apertures for said supporting member, said filter elements each comprising a fibrous member of substantially cylindrical shape with upper and lower flat surfaces, and having a multiplicity of through apertures, said through apertures having cylindrical walls adapted to serve as filter surfaces, said pressure plates being provided with annular grooves and through apertures to communicate with the through apertures in said filter elements, one of said pressure plates at the inlet end being closed with respect to one series of apertures in said filter elements, while the pressure plate at the other end of the assembly is open with respect to the same series of apertures in said filter elements, and a housing surrounding said filter elements and pressure plates, said housing being spaced from the filter elements, and threaded means for clamping the pressure plates against the filter elements whereby the liquid to be filtered passes in at the inlet and longitudinally of said supporting member into said housing, thence through openings in the end pressure plate into and through a series of intermediate openings in the pressure plates and filter elements, and thence laterally inwardly and outwardly toward two other series of openings in the filter elements and pressure plates, thence to an annular conduit at the other end of the assembly and out of the outlet of said filter assembly.

---

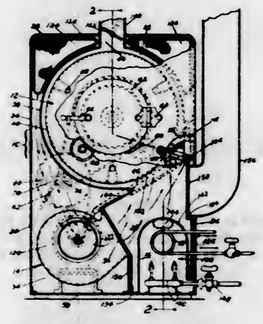
**2,389,432**
**COMMUNICATION SYSTEM BY PULSES THROUGH THE EARTH**
**Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 24, 1942, Serial No. 448,223**
**20 Claims. (Cl. 250—3)**



13. An earth signalling system comprising, in combination, a transmitter having a pair of spaced electrodes connected to ground, means for impressing upon said spaced electrodes high power pulses of electrical energy of short duration and with relatively long time periods between pulses, a source of modulating current coupled to said transmitter for modulating the frequency of said pulses, and a receiver having an energy collector in the form of a pair of spaced electrodes connected to ground, said receiver including an amplifier coupled to said last electrodes, a frequency selective circuit in the output of said amplifier and tuned to the means pulse frequency but broad enough to respond to the frequency modulation of the pulses, an amplitude limiter coupled to said selective circuit, and a frequency modulation detector coupled to the output of said limiter.

---

**2,389,433**
**HEATING, DRYING, AND AIR CONDITIONING APPARATUS**
**Earl B. Hough, Detroit, Mich.**
**Application August 18, 1943, Serial No. 499,304**
**5 Claims. (Cl. 34—37)**



1. In a device of the character described, a cabinet having a chamber and an air passageway therein, the wall of the cabinet having an air inlet for the admission of outside air into one end of said air passageway, a blower having its inlet communicating with said passageway, a motor for actuating the blower, a rotary drier located within said chamber, a driving connection between said drier and said motor for actuating said drier during operation of said motor, a heat exchange device arranged in the path of air discharged by said blower, said chamber having an inlet connected with the discharge side of said blower, said passageway having an outlet for discharging heated air externally of said cabinet, a damper for selectively controlling the passage of air into said chamber through the inlet thereof or through said outlet, and common control means for shifting said damper to close said inlet and for breaking said driving connection, said chamber being provided with an air outlet therefrom.

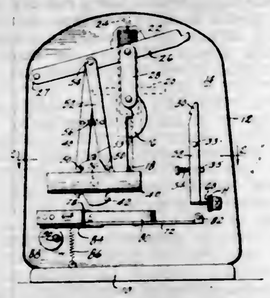
---

**2,389,434**
**TIMER FOR TOASTERS AND THE LIKE**
**Alfred J. Huck, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri**
**Application December 31, 1942, Serial No. 470,882**
**17 Claims. (Cl. 161—1)**

1. Timing mechanism for an electrical appliance comprising a dash pot, means for inverting said dash pot and closing the main switch for said electrical appliance, a latch for said last means, electrically operated means for releasing said latch, and contacts for controlling said electrically operated means when the movable member



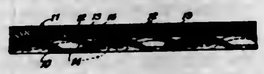
of said dash pot reaches a predetermined position, said contacts being moved to position ef-



fecting energization of said electrically operated means when said movable member of said dash pot assumes said predetermined position.

---

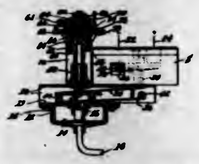
**2,389,435**
**FILTER MATERIAL**
**Robert Karlström, Stockholm, Sweden, assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware**
**Application January 26, 1943, Serial No. 473,609**
**In Sweden July 9, 1942**
**8 Claims. (Cl. 183—69)**



1. Filter material for separating solid particles from a gas including a flexible supporting layer having relatively substantial tensile strength, a flexible layer of fibrous filtering material adjacent thereto, one of said layers having projections and depressions, and a binding agent securing said layers together at the tops of said projections whereby said depressions form spaces between said layers, said supporting layer being formed with apertures communicating with said spaces.

---

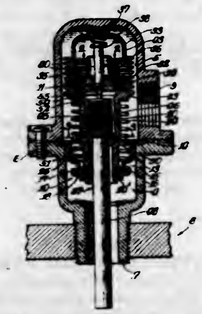
**2,389,436**
**DIFFERENTIAL WIDENING MEANS FOR CONTROL STRUCTURES**
**Kenneth O. Kearney, St. Louis, Mo., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa**
**Application November 17, 1944, Serial No. 563,963**
**14 Claims. (Cl. 200—83)**



1. In a control structure, an actuated lever movably mounted, an actuating lever pivoted thereto, a control device for actuation by said actuating lever, a power element for moving said actuated lever, a range determining stop engageable by said actuating lever in opposition to said power element whereby movement of said power element is translated into movement of said actuating lever to actuate said control device, and means for widening the differential of operation of said actuating lever comprising a differential widening element adapted to engage said actuating lever, a spring to effect such engagement, and a differential determining stop engageable by said differential widening lever to permit pivotal movement of said differential widening lever relative to said actuated and actuating levers while said power element moves said last levers, and said range determining stop becoming effective to stop movement of said actuating lever and thereupon effect movement thereof to operate said control device.

---

**2,389,437**
**TEMPERATURE RELIEF VALVE**
**Leo J. Kmiecik, Chicago, Ill., assignor to Everett N. McDonnell, Chicago, Ill.**
**Application June 21, 1943, Serial No. 491,800**
**2 Claims. (Cl. 236—80)**

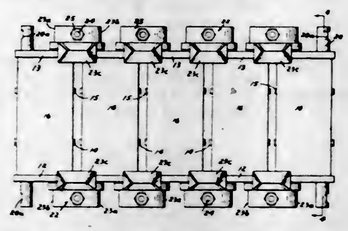


1. A temperature relief valve comprising, a valve housing having an inlet compartment and an outlet compartment, a main valve member in said housing and having a main valve seat extending into the inlet compartment of said valve housing, a hollow carriage member in said valve housing having one end extending beyond said valve seat of said main valve member into said inlet compartment, a main valve at said one end of said carriage member, a spring between said main valve seat member and said carriage member for normally urging the latter in a direction to seat said main valve on said main valve seat, an expansible chamber comprising a flexible bellows at the other end of said carriage member, a pilot valve seat at said other end of said carriage member opening into said expansible chamber, a temperature responsive means having a flexible bellows disposed within said carriage member and subject to the temperature of the fluid in said inlet compartment, a pilot valve at the other end of said flexible bellows of said temperature responsive means, spring means between said pilot valve and said expansible chamber for normally seating said pilot valve on said pilot valve seat, the cross-sectional area of the opening of said pilot valve seat being substantially less than the cross-sectional area of the opening of said main valve seat, said flexible bellows of said temperature responsive means at a predetermined temperature being adapted to expand to unseat said pilot valve and admit pressure from said inlet compartment into said expansible chamber, said expansible chamber having an effective area against which pressure admitted therein acts of substantially greater area than the area of said main valve subject to the pressure in said inlet

compartment, whereby said main valve carried by said carriage member is urged against the pressure in said inlet compartment away from said main valve seat.

---

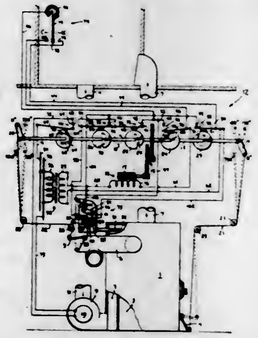
2,389,438
**TRACK SHOE**
**Harry A. Knox, Washington, D. C.**
**Application August 31, 1942, Serial No. 456,749**
**7 Claims. (Cl. 305—10)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In a track shoe, a pair of spaced continuous tubes, separated individual end plates joining the tubes, intermediate plates separated from the end plates and joining the tubes, and grousers mounted on the end plates and intermediate plates.

---

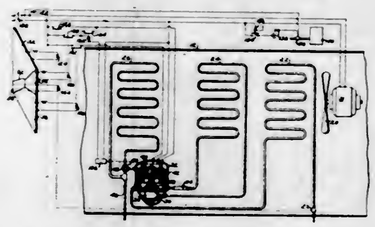
2,389,439
**CONDITION CONTROL SYSTEM**
**John P. Kriechbaum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application March 2, 1942, Serial No. 432,983**
**3 Claims. (Cl. 236—9)**



1. In combination, a furnace for heating a temperature changing medium, regulating means for regulating the temperature changing rate of said furnace, circulating means for circulating said medium to heat a space, electrical control means for controlling the operation of said regulating means and said circulating means, a plurality of switches connected in a series circuit with said electrical control means and moved to open position in sequence by said control means, a first of said switches being moved to open position when said control means is in a position rendering said regulating means and said circulating means both inactive, a second of said switches being moved to open position when said control means is in a position rendering said regulating means active while maintaining said circulating means inactive, a third of said switches being moved to open position when said control means is in a position rendering both said regulating means and said circulating means active, a fourth of said switches being moved to open position when said control means is in a position rendering said regulating means inactive and said circulating means active, a space thermostat switch which closes when cold, a circuit including a direct shunt for first switch controlled by said space thermostat and the remaining three of said series connected switches whereby said control means is energized and moves to that position in which said second switch opens, a first furnace switch responsive to the temperature of said medium which moves to closed position upon rise of the temperature of said medium to a predetermined value, a circuit for shunting said second switch controlled by said first furnace switch and including the remaining three of said series connected switches whereby said control means moves to the position in which said third switch is open, a second furnace switch responsive to the temperature of said medium and which moves to closed position upon an excessive temperature of said medium, a circuit for shunting said second and third switches controlled by said second furnace switch and including the remaining two of said series connected switches whereby said control means moves to the position in which said first switch is open, a space thermostat switch which closes when hot for shunting said second, third and fourth switches, and a third furnace switch responsive to the temperature of said medium which closes when said medium is cold for shunting said third and fourth switches whereby upon the occurrence of either of said conditions said control means returns to its original position in which said first switch is open.

---

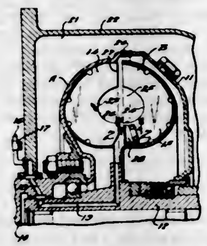
2,389,440
**REFRIGERATING APPARATUS**
**Andrew A. Kucher, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application November 30, 1940, Serial No. 367,997**
**21 Claims. (Cl. 257—3)**



8. Control means for controlling the supply of heat transfer medium to a plurality of coils for either heating or cooling air comprising a photovoltaic cell for each of said coils, a source of light, and means for directing said light onto said cells in accordance with changes in the temperature and moisture content of the air.



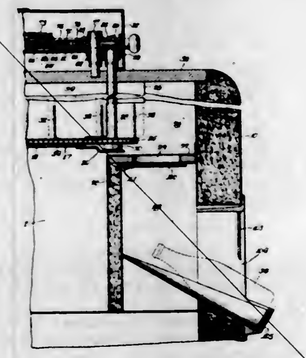
2,389,441
**FLUID POWER TRANSMITTER**
**Ludger E. La Brie, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application June 17, 1941, Serial No. 398,455**
**7 Claims. (Cl. 60—54)**



1. A fluid coupling comprising a cooperating pair of rotatable substantially hemi-toroidal driving and driven members each having a series of circumferentially spaced generally radially extending vanes substantially normal to the plane of rotation of the members defining vane passages providing vortex fluid flow between said members, the vanes of said members being recessed at the central region of the vortex and defining a coreless substantially toroidal fluid chamber coaxial with said members at said region directly open to said vane passages substantially throughout the peripheral edges of said recesses.

---

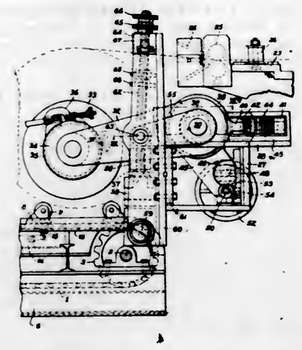
2,389,442
**MULTIPLE-FLAVOR VENDING MACHINE**
**Harvey T. Larimore, Congress Park, Ill., assignor to Kalva Venders, Inc., Chicago, Ill., a corporation of Illinois**
**Application October 16, 1941, Serial No. 415,250**
**8 Claims. (Cl. 312—95)**



6. In a vending machine for dispensing a variety of types of units, a plurality of endless conveyors one for each type of unit and an insulated casing for housing the conveyors, an improved actuating mechanism including a frame, a plurality of hand operated axially slidable rods positioned horizontally on the frame having an end of each adapted to be grasped by an operator, each said rod having a series of teeth extending along one side in the form of a rack, a series of shafts and pinions for translating movement of each rod through a drive shaft to its respective conveyor, said conveyors being positioned horizontally in the casing and having projections thereon for propelling said units to a discharge location, a normally closed trap door in the casing adjacent and below the discharge end of the conveyor communicating with the outside of the casing and a delivery recess for receiving delivered units, said actuating mechanism having an interlocking mechanism shiftable by each respective shaft during a dispensing movement into locking engagement with all the remaining shafts.

---

2,389,443
**COIL HANDLING APPARATUS**
**Edward L. Lyle, Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 6, 1943, Serial No. 474,901**
**8 Claims. (Cl. 242—78)**



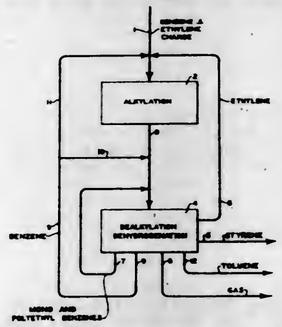
3. In a device for elevating and supporting coiled strip for unwinding, the combination of a horizontal shaft, a pair of rocker arms slidably mounted on said shaft and fixed against rotation thereon, coaxial, opposed coil engaging heads rotatably carried adjacent the free ends of said rocker arms for entering a coil disposed therebetween, means for moving said arms toward each other to enter said heads into the ends of the coil, power actuated means operatively connected to said shaft to turn the same in a direction to move said rocker arms and the coil engaged by said heads upwardly to a coil unwinding position, and means cooperating with said power actuated means for holding said arms against movement downwardly past a predetermined coil receiving position.

---

2,389,444
**MANUFACTURE OF STYRENE**
**William J. Mattox, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application February 11, 1942, Serial No. 430,504**
**2 Claims. (Cl. 260—669)**

1. A process for producing styrene from a hydrocarbon mixture containing mono- and polyethylbenzenes which comprises subjecting said

mixture at a temperature of from about 450° C. to about 700° C. to the action of a catalytic com-




posite comprising silica, alumina and a dehydrogenating metal oxide.

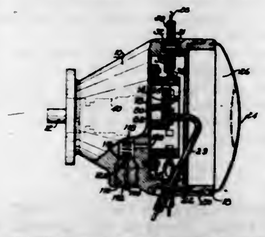
---

**2,389,445**
**PRODUCTION OF ETHYL BENZENE**
**William J. Mattox and Wayne L. Benedict, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application February 11, 1942, Serial No. 430,505**
**5 Claims. (Cl. 260—671)**

1. A process for producing mono ethyl benzene from poly ethyl benzene which comprises subjecting the poly ethyl benzene in admixture with at least one mol of benzene per ethyl side chain in excess of one in said poly ethyl benzene to the action of a catalyst comprising precipitated silica and a refractory metal oxide at a temperature of from about 500° C. to about 700° C. and at a space velocity of from about 0.1 to about 5.0 to effect transfer of an ethyl group from the poly ethyl benzene to the benzene as the principal reaction of the process.

---

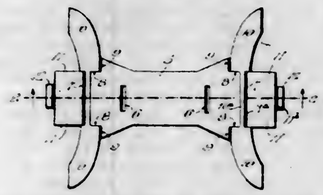
**2,389,446**
**ELECTRICAL APPLIANCE**
**Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application March 27, 1942, Serial No. 436,422**
**6 Claims. (Cl. 200—19)**



1. A distributor for use in high altitude flying comprising in combination, a casing, a first chamber in said casing adapted to contain inert gas under pressure, a second chamber within said casing, a shaft projecting through one wall of said casing and extending through said second chamber and into the first chamber, bearing means for said shaft comprising a first bearing and a second bearing, one of which is disposed within said second chamber, shaft seal means preventing the escape of inert gas from said first named chamber and said second named chamber, shaft seal means for preventing the escape of fluid from said second named chamber to the outside atmosphere, a plurality of contacts projecting into said first named chamber, a distributor contact mounted on said shaft within said first named chamber for distributing spark impulses to said contacts, said first named chamber including a flexible wall portion, said second named chamber adapted to contain a supply of lubricant maintained at a pressure above atmospheric pressure but below the pressure of said inert gas.

---

**2,389,447**
**CASKET PLAQUE**
**Joyce G. Meadows, Mount Pleasant, Tex.**
**Application August 11, 1944, Serial No. 549,050**
**1 Claim. (Cl. 47—41)**



A floral displaying instrumentality stamped as a unit and comprising a main supporting member having transversely disposed slots, pairs of legs at each end of the member integral with and hingedly joined to the member at the ends of said member at its side edges, the legs of each pair being arched to form clearances for convex surfaces of casket tops or covers, the said legs being adapted to be swung downwardly at right angles to the said member, a bar cut from the end of the member integral with the said legs of each pair, a brace integral with said member formed as an extension of the bar and hinged to said bar, a lip at the outer edge of the said brace integral with the brace and hinged thereto, the said brace extending inwardly and upwardly to the under surface of the member when positioned to form the floral support, the said lip being insertable in a slot near the end of the member having the brace, whereby the legs are braced in a position at right angles to the said member, a fibrous material lashed on the member, and flowers having their stems imbedded in and held by the fibrous material.

---

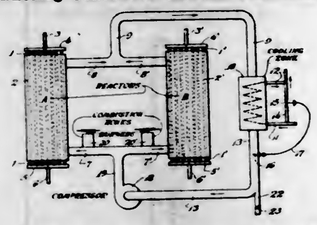
**2,389,448**
**CONTROL OF REACTION TEMPERATURES IN ENDOTHERMIC AND EXOTHERMIC REACTIONS**
**Lev A. Mekler, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application October 7, 1940, Serial No. 360,054**
**9 Claims. (Cl. 23—1)**

1. The method of controlling temperatures in reactions simultaneously conducted at different temperature levels in a plurality of separate reaction zones which comprises, passing a separate stream of convective fluid, each at the required temperature, in indirect heat transfer relation



with the reactants undergoing conversion in each of said reaction zones, subsequently commingling said separate streams, cooling the entire commingled stream to a temperature at least as low as that of the coolest of said separate streams, dividing the cooled stream of convective fluid into a plurality of separate streams, and selectively reheating and supplying the divided streams, each at its required temperature, to said reaction zones as aforesaid, said reheating being accomplished by heat from a source independent of said reaction zones.

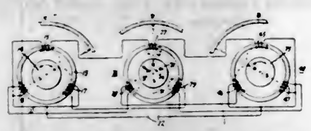
7. An apparatus of the class described comprising a plurality of reactors each having a zone in which to conduct a reaction with means for admitting reactants thereto and means for



removing reaction products therefrom, each reactor having a fluid passageway for the passage of convective fluid therethrough in indirect heat exchange relation with the reactants and conversion products passing through the reaction zone, conduits leading from adjacent one end of the fluid passageway in each reactor to adjacent one end of a common conduit, a cooler at an intermediate point in said common conduit, branch conduits leading from adjacent the opposite end of the common conduit to adjacent the opposite end of the fluid passageway in each reactor, propulsion means disposed between the cooler and said branch conduits for effecting the circulation of convective fluid through said reactors, and a heater associated with each of said branch conduits.

---

**2,389,449**
**TOTALIZING TELEMETERING SYSTEM**
**Hendrik D. Middel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application January 2, 1943, Serial No. 471,120**
**2 Claims. (Cl. 177—351)**



1. An alternating current indication totalizing system comprising in combination a plurality of transmitters of the alternating-current-excited second-harmonic-generating type each having only a single set of windings which serve both as exciting and signal current transmitting windings, output connections for said windings, a pair of excitation terminals for connection to a source of alternating current, and a receiver comprising a stator core composed of saturable magnetic material, a movable magnet in inductive relation thereto, and a single set of windings linking said core which serve both as exciting and signal current receiving windings, each of said receiver windings being connected to said alternating current input terminals in series with a winding of one of the transmitters for combining transmitter effects in said receiver and producing angular deflection of the magnet thereof proportional to the algebraic sum of the indications to be transmitted by the transmitters but having a value which is a fraction thereof.

---

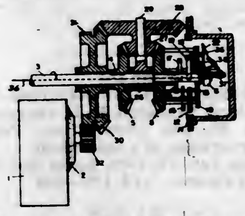
**2,389,450**
**BRASSIÈRE**
**Margaret E. Moy, Orange, N. J.**
**Application December 16, 1942, Serial No. 469,151**
**2 Claims. (Cl. 2—42)**



1. The combination with a brassière, of a pair of straps at each side of the brassière, each pair of straps having corresponding ends thereof secured to the brassière adjacent the lower edge thereof with the straps normally depending therefrom in approximately parallel relation, each strap being provided with fastener means adjacent the free end thereof, and fastener means supported by the brassière adjacent the secured ends of the straps for joint co-operation with the fastener means on the free ends of the straps in the provision of a pair of adjacent loops for slidable engagement with respective loops on a garment disposed below the brassière, the loops being interengageable upon extension of the free ends of the straps through the loops of the lower garment prior to connection of the co-operating fastening means.

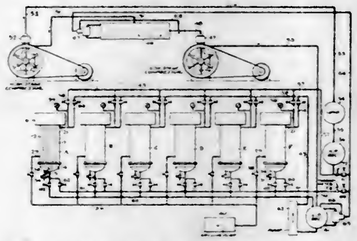
---

**2,389,451**
**MECHANICAL MOVEMENT**
**John J. Moynihan, Rochester, N. Y., assignor of one-half to Joseph B. Brennan, Cleveland, Ohio**
**Application April 1, 1942, Serial No. 437,253**
**16 Claims. (Cl. 74—395)**



1. In a mechanical movement, the combination of a first movable member, a second movable member, and mechanism connecting therebetween including gearing and a regulatable escapement controlling the gearing for maintaining said members in offset-synchronous relation with the degree of such offset proportional to the rate of movement of one of said members.

**2,389,452**
**DRYING**
**Velt C. Patterson, York, Pa., assignor to York Corporation, a corporation of Delaware**
**Application July 10, 1943, Serial No. 494,229**
**5 Claims. (Cl. 34—76)**



4. The combination of a plurality of airtight-enclosures each having means for supporting material to be dried and for supplying thereto the latent heat necessary for sublimation of frozen moisture; evacuating means operable to withdraw noncondensable gases from the various enclosures at will; refrigerative coolers, one mounted in each of said enclosures and comprising hollow means enclosing flow passages for volatile liquid refrigerant, said hollow means having external fins adapted to retain an ice coating until melted; means for supplying volatile liquid refrigerant to the flow passages of selected coolers and for causing it to evaporate therein; and means for passing said liquid on its way to such selected coolers, through the flow passages of an inactive but recently active cooler to de-ice the latter and subcool the liquid.

**2,389,453**
**AMIDES**
**John Harold Perrine, Prospect Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**No Drawing. Application April 15, 1943, Serial No. 483,171**
**4 Claims. (Cl. 260—557)**

1. The mixture of amides formed from a mixture of saturated monocarboxylic acids containing from two to five cycloaliphatic rings per molecule and having the generic formula

$$C_nH_{2n-x}O_2$$

wherein $n$ has a value between 13 and 30 and $x$ has a value ranging from 4 when the number of cycloaliphatic rings is two to 10 when the number of cycloaliphatic rings is five.

**2,389,454**
**ELECTRICAL CONNECTOR**
**Stanislas Picard, Cranston, R. I., assignor to The Monowatt Electric Corporation, Providence, R. I., a corporation of Connecticut**
**Application July 10, 1943, Serial No. 494,218**
**9 Claims. (Cl. 173—328)**



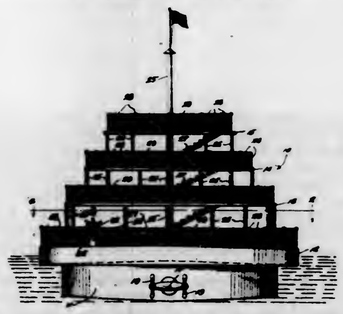
1. An electrical connector comprising an insulating base having an opening, a locking device secured to the opening and having bayonet slots, a pin having lateral projections located in the slots and forming a bayonet connection therewith, means on said device for locking one of the projections in one of the slots, and other means on said device for actuating the locking means to permit assembly and dismantling of the pin and the device.

**2,389,455**
**ELECTRICAL CONNECTOR**
**George B. Benander, Oaklawn, R. I., assignor to Monowatt Electric Corporation, a corporation of Connecticut**
**Application June 22, 1944, Serial No. 541,487**
**4 Claims. (Cl. 173—363)**



1. An electrical connector comprising an insulating base having an opening, a locking device detachably secured to the opening and having a bayonet slot, a tubular, axially split cylindrical contact having a lateral projection located in the slot and forming a bayonet connection therewith, and an axially extending split cylinder forming an extension of the locking device and having an internal diameter less than that of said contact for applying tension to said contact.

**2,389,456**
**MERRY-GO-ROUND ON WATER**
**Karl H. Piesch, New Orleans, La.**
**Application January 31, 1945, Serial No. 575,444**
**9 Claims. (Cl. 272—32)**

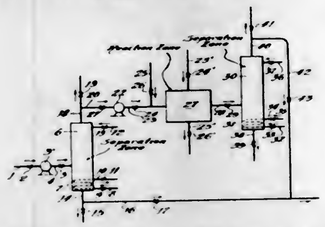


1. In an amusement device of the character disclosed, the combination of a vessel including



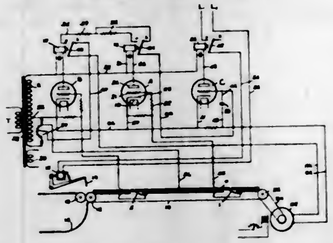
a hull of substantially tubular configuration, a pair of diametrically disposed propeller units mounted on the hull for pivotal movement about an axis extending diametrically of the hull, each said propeller unit comprising at least one propeller mounted for rotation about an axis, a source of power on the vessel driving connections between said source of power and the propellers of said propeller units, and means operable from an operator's station on the vessel for pivoting said propeller units about said diametrical axis selectively under control of the operator.

**2,389,457**
**PURIFICATION OF HYDROGEN HALIDES**
**Herman Pines and Herman S. Bloch, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application December 31, 1943, Serial No. 516,434**
**12 Claims. (Cl. 23—154)**



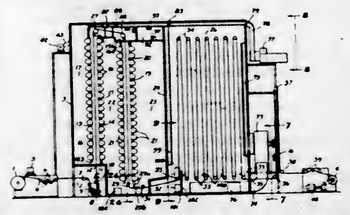
9. A process for purifying a hydrogen halide gas containing a carbon oxide impurity, which comprises liquefying the major portion of said gas and separating the remaining gaseous phase from the liquid phase, contacting said gaseous phase with an organic compound and a metal halide catalyst of the Friedel-Crafts type under reaction conditions to react at least a portion of the carbon oxide impurity with said organic compound, and separating purified hydrogen halide from the resultant reaction products.

**2,389,458**
**CONTROLLING RELAY**
**John E. Preston, Northport, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio**
**Original application March 27, 1942, Serial No. 436,465. Divided and this application June 5, 1944, Serial No. 538,847**
**1 Claim. (Cl. 250—27)**



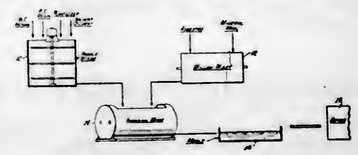
Apparatus of the character described, comprising means for moving an article along a path, trip means adapted to be engaged by the moving article, time delay relay means variously controlled by said trip means in accordance with variations in length of different articles traveling in said path and including a grid controlled electron discharge device and means for changing the grid potential thereof by sequential steps at different selected rates of change during different steps and for varying the relative duration of the steps of the sequence thereby to cause response by said device delayed over periods varying proportionately as the articles vary in length, and means effective upon said relay means and sensitive to variations in the speed of travel of said article moving means for maintaining uniform the relative duration of the steps of the sequence for any article of given length regardless of variations in the total time delay period consequent upon such speed variations.

**2,389,459**
**METHOD AND APPARATUS FOR APPLYING AN ADHESIVE COATING TO CORD FABRIC**
**Isidore J. Remark and Vaughn V. Wheeler, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**
**Application January 1, 1943, Serial No. 471,086**
**7 Claims. (Cl. 117—93)**



1. The method of applying a thin coating of an adhesive containing rubber to spaced cords in sheet form which comprises applying a liquid emulsion containing rubber in suspension to the moving cords, scraping surplus liquid from the sides of the cords, and projecting a jet of air against each side of the sheet of cords at an angle to the sheet and in a direction counter to the cord movement and at the point of scraping to remove surplus liquid from between the cords at the same time that the surplus liquid is scraped from the sides thereof.

**2,389,460**
**THERMAL INSULATION AND METHOD OF MANUFACTURE**
**Harry H. Rinehart, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application March 5, 1943, Serial No. 478,155**
**12 Claims. (Cl. 260—36)**

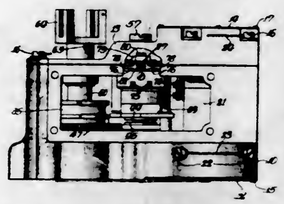


9. A plastic fiber-binder composition consisting essentially of a mass of reinforcing fibers including long and harsh mineral wool fibers and polyvinyl resin binder enveloping said fibers and bonding them together with sufficient cohesion

to retain substantially any form imparted thereto, said composition including a vaporizable solvent adapted to form with the binder a colloidal adhesive gel and having a non-vaporizable binder content approximating 25%–40% of the dry weight of the fibers and said binder comprising approximately 1 part polyvinyl resin and 1½–2 parts flameproofing plasticizer.

---

**2,389,461**
**FUEL COCK DRIVE MECHANISM**
**Howard A. Satterlee, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio**
**Application July 27, 1942, Serial No. 452,485**
**19 Claims. (Cl. 74—421)**



1. In a fuel cock drive mechanism, a housing having a partition therein, a clutch drive gear, a clutch driven thereby, a motor for rotating said drive gear, said drive gear being journaled in said partition, said partition having a bore removably receiving said motor, means to retain said motor in said bore, step-down gearing assemblies for operatively connecting said motor with said clutch drive gear, each of said assemblies comprising a sleeve received in a bore of said partition, a shaft, bearings therefor supported in said sleeve, and gear elements, set screw means for retaining said sleeves removably in said partition, cover plates for said housing for gaining access to said motor, said clutch drive gear and said step-down gearing assemblies to permit individual removal thereof from said housing, a clutch operating solenoid mounted on said partition over said clutch drive gear, a plunger in said solenoid for engaging said clutch when the solenoid is energized, a relay switch carried by said partition and operated by energization of said solenoid, a valve shaft journaled in said partition and in one of said cover plates, a connector plate removably positioned on said housing and having prong and socket connections with said motor and said solenoid which cooperate with each other when the connector plate is positioned on the housing, a cam wiper carried by said connector plate, said valve shaft having a cam thereon, said cam wiper cooperating with said cam for circuit controlling purposes when said connector plate is positioned on said housing, and means for connecting an external circuit with the electrical elements of said connection plate.

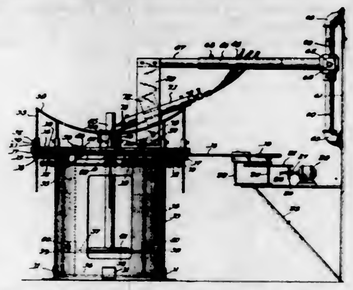
---

**2,389,462**
**ABRASIVE PRODUCTS AND METHODS OF MANUFACTURE**
**Robert L. Smith, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware**
**No Drawing. Application April 17, 1940, Serial No. 230,155**
**7 Claims. (Cl. 51—298)**

1. The method of making bonded abrasive articles which comprises wetting abrasive grains with a liquid comprising a liquid heat-hardenable phenolic resin in the proportion of approximately 50 parts by weight of the liquid to 900 parts of the abrasive, mixing the wetted grains with approximately 100 parts of powdered zein, molding an article from the mixture, and heating the article at a temperature of about 250–275° F. to cure the bond.

---

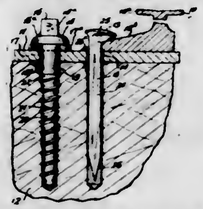
**2,389,463**
**PIPE-CUTTING MACHINE**
**Michael C. Smetzer, Oak Park, Ill., assignor to James B. Clow & Sons, Chicago, Ill., a corporation of Illinois**
**Application January 24, 1944, Serial No. 519,579**
**5 Claims. (Cl. 266—23)**



1. The combination with a tool, of automatic means for moving and directing the action of said tool with respect to work to be processed by said tool, comprising a table adapted to hold said work and move the same at a predetermined speed past a vertical plane occupied by said tool, a template of predetermined shape mounted on and movable with said table, a guide of predetermined shape mounted on and movable with said table, and holding means for said tool confining the same in said vertical plane while permitting the same to freely slide bodily toward and away from said work up and down in said plane and also to freely oscillate to assume angular positions and a horizontal position in said plane, said tool being slidably mounted in said holding means and being entirely supported at spaced points and controlled in its movements by said template and guide.

---

**2,389,464**
**PREVENTING DETERIORATION IN RAIL FASTENINGS AND THE LIKE**
**Jacob Rush Snyder, Cleveland, Ohio**
**Application October 16, 1943, Serial No. 506,498**
**9 Claims. (Cl. 238—366)**



1. In a connection of the character described, a wooden member having a bored hole therein, a plate having an opening overlying said hole, a fastening member having a stem portion driven into said hole and having a projecting portion extending through the opening of said plate, and a preservative material in said hole and also forming a coating on the fastening member including that portion of said member which projects from the wooden member and extends through the opening of said plate, said material having an initial volume to partially fill the inner end of the bored hole and the dimensions of said stem portion and bored hole being such that the driving of said fastening member causes some of said material to be displaced to form said coating, the portion of the fastening member at and adjacent the junction of said stem portion with said projecting portion being of larger size than the bored hole and adapted to be forced into the latter for trapping and pressurizing said material to cause the same to impregnate the wood surrounding the bored hole.



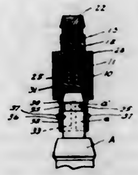
---

**2,389,465**
**COMPOSITION FOR STORAGE BATTERY PLATES AND METHOD OF PREPARING SAME**
**Alexander Stewart, Mountain Lakes, N. J., and Adrian B. Fitrot, Hempstead, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application September 25, 1941, Serial No. 412,284**
**7 Claims. (Cl. 136—26)**

1. A process of making an expander for storage battery plates which comprises partially neutralizing an alkaline lignin containing solution derived from wood to an alkalinity within a range from upwards of pH=7.0 to about pH=10 separating from the supernatant liquor the ligneous substance thereby precipitated in the alkaline phase and washing and drying the same.

---

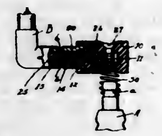
**2,389,466**
**RESISTOR FOR SPARK PLUGS**
**Lester L. Stoffel, Lakewood, Ohio, assignor to The Ohio Carbon Company, Cleveland, Ohio, a corporation of Ohio**
**Original application January 16, 1942, Serial No. 427,023, now Patent No. 2,366,757, dated January 9, 1945. Divided and this application May 9, 1944, Serial No. 534,748**
**3 Claims. (Cl. 201—63)**



1. The combination of an insulating body, a resisting element within the body, an external sleeve carried by the body in electric connection with the resisting element, a metallic attaching member adapted to engage a spark plug, said member extending axially into the insulating body and being embedded therein, and an electric connecting member within the body between the embedded member and the resisting element.

---

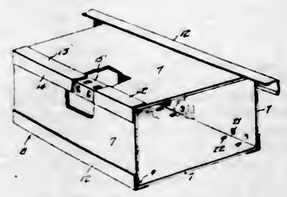
**2,389,467**
**ELECTRICAL CONNECTOR**
**Lester L. Stoffel, Lakewood, and Alfred A. Stark, Cleveland, Ohio, assignors to The Ohio Carbon Company, Cleveland, Ohio, a corporation of Ohio**
**Original application December 12, 1941, Serial No. 422,752. Divided and this application September 11, 1943, Serial No. 501,964**
**5 Claims. (Cl. 173—324)**



2. An electrical connector, comprising an insulating body having a recess, a metallic sleeve projecting from the body and adapted to be externally engaged by a sleeve on the end of a conductor, an external coiled spring secured to the body and adapted to embrace the stem of a member to be connected to the conductor, an electrical conducting element within the recess, means for connecting it at its outer end to the sleeve carried by the body, a spring within the body normally pressing against the inner end of the conducting element and having the other end thereof in electric connection with the external spring, and a screw on the opposite side of the body from the external spring and axially entering the interior of spring turns within the body for clamping the external spring thereto, and maintaining it in electrical engagement with the internal spring.

---

**2,389,468**
**FASTENER FOR DUCT FORMS AND THE LIKE**
**Augustus P. Terry, Berkeley, Calif.**
**Application April 12, 1943, Serial No. 482,713**
**4 Claims. (Cl. 138—74)**

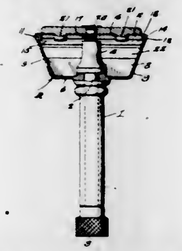


1. In a fastening means for securing in angular relation the walls of a duct or the like, a wall fastener member having integral portions angularly related to correspond to the walls, and having wall penetrating means on the inner sides of the portions, and an edging strip in which said member is adjustably held for longitudinal displacement along said strip and having angularly related portions providing a backing for said member portions and arranged to engage said walls beyond the ends of said portions.

**2,389,469**
**METHOD OF MANUFACTURE OF ADHESIVE TAPES**
**Frank J. Tone, Niagara Falls, Osborne L. Mahlman, Kenmore, and Fred Brown, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware**
No Drawing. Original application June 14, 1937, Serial No. 148,104. Divided and this application September 25, 1941, Serial No. 412,338
5 Claims. (Cl. 117—122)

1. In a method of making adhesive tape, the steps which comprise making a rather stiff and viscous solution of a pressure-sensitive adhesive mixture comprising rubber, a resin, and zinc oxide in a non-aqueous solvent, adding to said solution a small percentage of a water-in-oil type dispersing agent which is insoluble in water but soluble in the said non-aqueous solvent, dispersing about 2–4% of water in the said solution to form a water-in-oil type dispersion having the smooth-spreading property characteristic of a soft butter, spreading said dispersion on a backing, and removing the water and solvent from the dispersion.

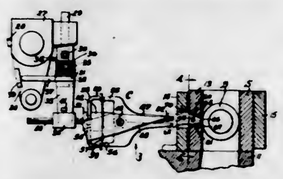
**2,389,470**
**SAFETY RAZOR**
**George E. Traynham, Wilkes-Barre, Pa.**
Application November 21, 1944, Serial No. 564,519
4 Claims. (Cl. 30—41)



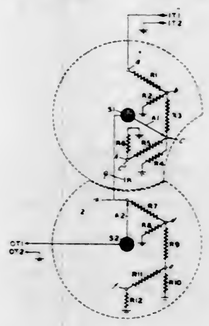
1. A safety razor comprising a tubular handle, a lather receptacle mounted on the upper end of the handle, a shaft journaled in the handle, a guard superposed on the receptacle and having an intermediate opening, the guard being provided near one of its longitudinal edges with an elongated slot disposed directly above the receptacle and close to one edge thereof, a cap superposed on the guard, a depending stud carried by the cap and extended through the opening, a releasable threaded connection between the stud and the shaft, and a hinge uniting one end of the guard with one end of the receptacle, the hinge constituting means whereby, when the guard is closed, the opening will be alined with the axis of the shaft to admit the stud and permit the threaded connection to function, and whereby the slot will be disposed in the position stated.

**2,389,471**
**THREAD CUTTER FOR LOOMS**
**Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
Application December 2, 1944, Serial No. 566,301
12 Claims. (Cl. 139—267)

1. In thread cutting mechanism for a loom having a reciprocating lay provided with a thread to be cut, a pair of cutter blades in open position to receive the thread but movable toward each other to closed position to cut the thread, and means on the lay presenting an upper surface above the thread inclined downwardly and rearwardly and a lower surface below the thread inclined upwardly and rearwardly, said surfaces due to forward movement of the lay engaging said cutter blades and causing them to move to closed position subsequent to movement of the thread to a position between said blades when the latter are in open position.



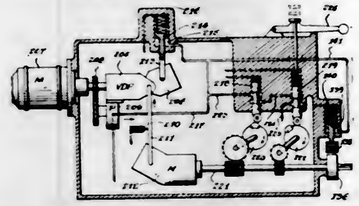
**2,389,472**
**ELECTRICAL ENERGY CONVERSION**
**Howard J. Tyzzer, Caldwell, N. J., assignor, by mesne assignments, to Harold E. Barnes and Fern A. Barnes, East Orange, N. J.**
Application April 7, 1942, Serial No. 437,976
6 Claims. (Cl. 178—44)



1. In an arrangement for converting a fixed in value potential of any one of a large number of high frequency electrical alternating currents into any one of a multiplicity of lower predetermined in values potentials, the combination of input and output terminals for the said electrical alternating currents, a plurality of multiple element resistance attenuator units connected in cascade relation between the said terminals in sufficiently removed spaced relations with respect to each other that the stray couplings between the resistance elements of any one unit and any other unit are materially less than they would be if contained in the same unit, contacts separating the individual predetermined resistances of the said attentuator units, separate rotatable contact arms in each of the said units each independently arranged for successively contacting the said contacts of its attentuator unit and means dependent upon mechanical action only jointly associated with the said rotatable arms so arranged that the arm of the attenutor unit nearer the said input terminals must be in one chosen position to make the arm of the next attentuator unit rotatable.

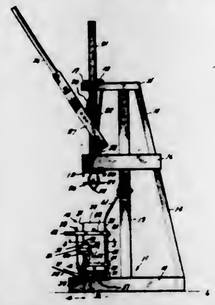


**2,389,473**
**TIMING DEVICE FOR POWER TRANSMISSION SYSTEMS**
**Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan**
Original application January 27, 1940, Serial No. 315,889, now Patent No. 2,326,184, dated August 10, 1943. Divided and this application August 9, 1943, Serial No. 497,880
2 Claims. (Cl. 60—53)



1. In a hydraulic control system, a source of pressure comprising a variable delivery pump, a movable part of said pump movable from a neutral position to an output position and adapted to control the volume output thereof, a motor to be operated by pressure from said pump, a source of pilot pressure, means responsive to said pilot pressure for controlling the output of said pump comprising pressure responsive means connected to said movable part, means normally urging said movable part to one of its position and means for influencing said pilot pressure to cause a change in the operation of said motor comprising a plurality of valve means, each responsive to a different degree to the movement of said motor, said valve means being arranged to cooperate at a predetermined point in the movement of said motor to influence said pilot pressure as aforesaid.

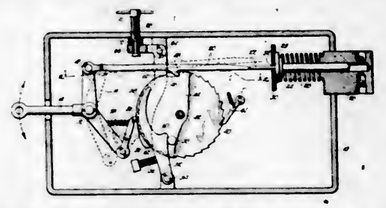
**2,389,474**
**APPARATUS FOR MOLDING BLOCKS**
**William S. Wagoner, Gibsonville, N. C.**
Application January 19, 1944, Serial No. 518,903
4 Claims. (Cl. 25—87)



1. In a machine for making building blocks of compressible material and having a mold, a plunger and a common support therefor, a manually operable and fully floating lever for controlling said plunger, linkage means forming a pivoting connection between one end of the lever and the support, and additional linkage means forming a second pivoting connection between said lever intermediate its end and said plunger.

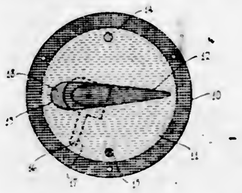


**2,389,475**
**INJECTOR OPERATING MEANS**
**Orla E. Watson, Kansas City, Mo.**
Application December 4, 1944, Serial No. 566,579
8 Claims. (Cl. 103—153)



1. Injector operating means comprising, in combination with an injector pump having a reciprocating plunger, a reciprocating drive bar movable into and out of alinement with said plunger, means for actuating said drive bar, and means for intermittently moving said bar into and out of alinement with said plunger.

**2,389,476**
**SUPERVISORY SYSTEM AND PERCEPTIVE INDICATOR THEREFOR**
**Russell H. Whempner, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
Application May 3, 1943, Serial No. 485,449
11 Claims. (Cl. 177—311)

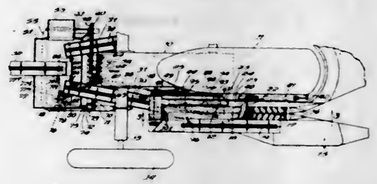


7. In a device for indicating icing of an airfoil surface, an airfoil simulating portion, an ice accretion simulating portion, and means varying the apparent boundary between said portions.

**2,389,477**
**POLYSILOXANE RESINS**
**James G. E. Wright, Alplaus, and James Marsden, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
No Drawing. Application August 21, 1942, Serial No. 455,615
19 Claims. (Cl. 260—2)

8. The method which comprises dissolving a liquid intermediate methyl polysiloxane resin containing an average of at least one and not more than two methyl groups per silicon atom in toluene to form a solution containing from 10 to 33 per cent by weight of resin, and treating said resin with about 5 per cent antimony pentachloride and about 3 per cent of a hydrated iron chloride based on the weight of the resin by heating said solution in contact with said chlorides at refluxing temperatures, washing the resultant product with water until the pH of the final wash water is between 4 and 6, and recovering the resinous product.

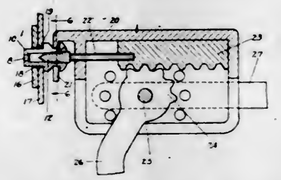
**2,389,478**
**CORN PICKER**
**John L. Aasland, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application October 26, 1942, Serial No. 463,369**
**15 Claims. (Cl. 56—18)**



1. In a tractor having a rear axle, the combination of gathering means positioned forward of the rear axle, means mounting the gathering means on the tractor, husking means positioned forward of the rear axle and immediately adjacent the gathering means and adapted to husk crops gathered by the gathering means by the passing of the crops along said husking means in a direction toward the gathering means from a point spaced from the gathering means to a point immediately adjacent the gathering means, means for conveying crops from the gathering means directly and out of contact with the husking means to a location on the husking means spaced from the gathering means, means mounting the husking means on the tractor, means for conveying husked crops from a point on the husking means immediately adjacent the gathering means beneath the rear axle to the rear of the tractor, and means mounting the conveying means on the tractor.

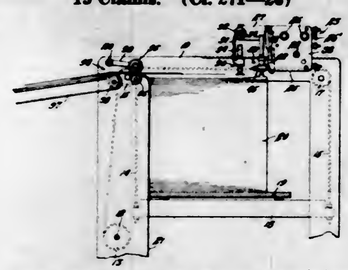
---

**2,389,479**
**FASTENING DEVICE**
**Ernest C. Austin, Los Angeles, Calif.**
**Application September 16, 1943, Serial No. 502,605**
**7 Claims. (Cl. 85—40)**



1. A rivet assembly comprising a hollow body and head, a slot extending through the wall of the body and for the entire length of the body, the opening in the rivet having a smaller diameter adjacent the end of the body remote from the head than throughout a major portion of the body and throughout the head, a plug adapted to have a force fit in said hollow body and having portions with larger diameters than the diameters of said opening in the rivet whereby upon forcing the plug into said rivet the plug clenches the end of the body remote from the head and springs and locks the body of the rivet into a tight fit with the opening in the work in which the rivet is installed.

**2,389,480**
**SHEET FEEDING APPARATUS**
**Leonard Baker, Hilladale, N. J., assignor to Dexter Folder Company, Pearl River, N. Y., a corporation of New York**
**Application August 12, 1944, Serial No. 549,145**
**15 Claims. (Cl. 271—26)**



1. In a sheet feeder, a pair of suction devices arranged above a supply of sheets and mounted for movement toward and away from said supply to grip the topmost sheet at transversely spaced points and lift said sheet from the supply, means for moving said suction devices toward and away from the supply, means for moving said suction devices laterally away from each other while gripping the sheet to stretch the latter, and means for controlling the extent of lateral movement of said suction devices independently of each other.

---

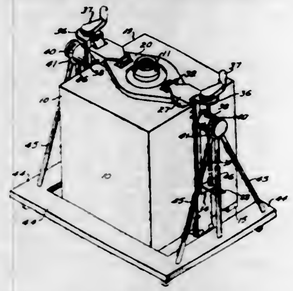
**2,389,481**
**SAFETY ATTACHING MEANS FOR EAR AND LIKE ORNAMENTS**
**Eugene Baxner, Providence, R. I.**
**Application September 27, 1944, Serial No. 555,961**
**8 Claims. (Cl. 63—14)**



4. Safety attaching means for ear and like ornaments, comprising a resilient U shaped base member having means on the outer arm thereof to engage the outer surface of the ear or other object, adapted to be soldered, integral with or otherwise secured to the ornament and an inner arm terminating in a pivot forming portion substantially in alignment with said means, an edge of said inner arm forming a resilient pawl, and an arcuately bent clamping member having an end having cooperating pivot means thereon for pivotally mounting it on the end of the inner arm of said U shaped member, an upper arm extending outwardly therefrom, an arcuate elbow portion adapted to clamp an ear lobe or other object inserted between the arms of said U shaped member against said means capable of greater clamping action on any downward pull exerted on said ornament or attaching means and a resilient lower arm projecting arcuately inwardly from said arcuate elbow portion having a ratchet edge for resiliently securing said lip pawl between the teeth thereof to retain said clamping member in adjusted clamping position, and means on said lower arm extending beyond the inner arm of said U shaped member for manipulating the clamping member.



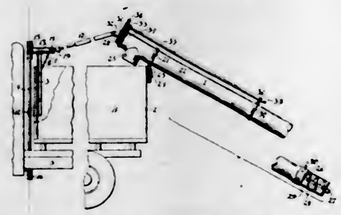
**2,389,482**
**CARBOY HANDLING APPARATUS**
**Myron Bixler, Philadelphia, Pa.**
**Application September 2, 1944, Serial No. 552,551**
**6 Claims. (Cl. 248—142)**



1. A clamp for a carboy box of the type having spaced supports on the bottom thereof for respectively engaging sustaining surfaces, comprising a base dimensioned to pass under the box between the supports without necessarily tilting or raising the box relative to such sustaining surfaces, standards attached respectively to the ends of said base, one of said standards at least being detachable, hook means on each standard, a head plate across the top of the box, latch levers respectively pivoted to said head for engaging said hook means, and means for locking said latch levers in holding engagement with said hook means.

---

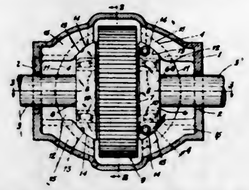
**2,389,483**
**REVERSIBLE GRAIN CONVEYER ASSEMBLY**
**Henry Bobrowski and Wilhelm Bobrowski, Morris, Manitoba, Canada**
**Application July 10, 1944, Serial No. 546,193**
**1 Claim. (Cl. 214—83)**



A reversible grain conveyer for trucks, comprising in combination with a source of power on said truck, a power transmission assembly secured to the front end of a truck body and extending rearwardly thereover, said assembly embodying a supporting bracket on the front wall of said body, a bearing on said bracket, a stub shaft in said bearing having a pulley keyed thereto, a belt connecting said pulley to said source of power and extending downwardly between said front wall and the cab of said truck, a telescopic shaft extending over said truck body and universally connected to said stub shaft, a grain trunk having intake and discharge orifices at the ends thereof removably secured to the rear end of said truck body, a spiral conveyer within said trunk, a conveyer shaft projecting from the discharge end of said trunk, a pinion keyed to said conveyer shaft near said projecting end, said projecting end of said conveyer shaft being designed for universal coupling with the rear end of said telescopic shaft when said trunk is in the position for discharging grain into said truck, an external shaft parallel with said trunk, a pinion in mesh with said first mentioned pinion keyed to one end of said external shaft, said external shaft being less than the length of said trunk, the opposite end of said external shaft being designed for universal coupling with said telescopic shaft when said trunk is in the position for discharging grain from said truck.

---

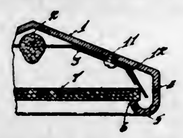
**2,389,484**
**AUTOMOTIVE DRIVING AXLE CONSTRUCTION**
**Ernest G. Boden, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio**
**Application December 9, 1944, Serial No. 567,449**
**11 Claims. (Cl. 74—310)**



1. A housing having end openings and a side opening, shafts extending into said housing through the end openings thereof, a gear carrier fixed to said housing and having two spaced pedestals extending into said housing through the side opening thereof, and a differential gear unit journaled in said pedestals in operative relation to said shafts, said housing having inside abutment members adapted and arranged to support said pedestals against movement in said housing in directions transverse thereto and longitudinally thereof.

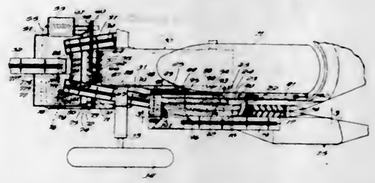
---

**2,389,485**
**THERMOMETER CASE**
**Anthony Charles Bruns, Cincinnati, Ohio, assignor to The Palmer Company, Norwood, Ohio, a corporation of Ohio**
**Application February 7, 1944, Serial No. 521,381**
**4 Claims. (Cl. 73—374)**



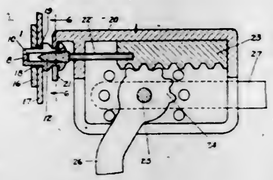
3. A thermometer case, comprising: a body having a rear wall, opposing side walls and an open front, the outer longitudinal ends of the side walls being convexed for providing a bearing edge for a transparent cover plate, a transparent closure plate for the open front of the case removably disposed within the case and in contact with the bearing edges of said side walls and resilient means mounted upon and within the case extending longitudinally of the open front of the case yieldingly sustaining the cover plate therebetween and compressively against the bearing edges of the side walls of the case.

2,389,478
**CORN PICKER**
John L. Aasland, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 26, 1942, Serial No. 463,369
15 Claims. (Cl. 56—18)



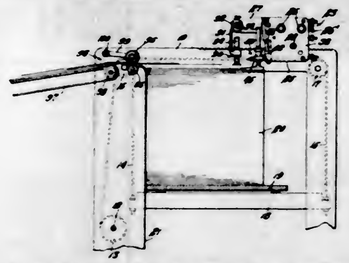
1. In a tractor having a rear axle, the combination of gathering means positioned forward of the rear axle, means mounting the gathering means on the tractor, husking means positioned forward of the rear axle and immediately adjacent the gathering means and adapted to husk crops gathered by the gathering means by the passing of the crops along said husking means in a direction toward the gathering means from a point spaced from the gathering means to a point immediately adjacent the gathering means, means for conveying crops from the gathering means directly and out of contact with the husking means to a location on the husking means spaced from the gathering means, means mounting the husking means on the tractor, means for conveying husked crops from a point on the husking means immediately adjacent the gathering means beneath the rear axle to the rear of the tractor, and means mounting the conveying means on the tractor.

2,389,479
**FASTENING DEVICE**
Ernest C. Austin, Los Angeles, Calif.
Application September 16, 1943, Serial No. 502,605
7 Claims. (Cl. 85—40)



1. A rivet assembly comprising a hollow body and head, a slot extending through the wall of the body and for the entire length of the body, the opening in the rivet having a smaller diameter adjacent the end of the body remote from the head than throughout a major portion of the body and throughout the head, a plug adapted to have a force fit in said hollow body and having portions with larger diameters than the diameters of said opening in the rivet whereby upon forcing the plug into said rivet the plug clenches the end of the body remote from the head and springs and locks the body of the rivet into a tight fit with the opening in the work in which the rivet is installed.

2,389,480
**SHEET FEEDING APPARATUS**
Leonard Baker, Hillsdale, N. J., assignor to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application August 12, 1944, Serial No. 549,145
15 Claims. (Cl. 271—26)



1. In a sheet feeder, a pair of suction devices arranged above a supply of sheets and mounted for movement toward and away from said supply to grip the topmost sheet at transversely spaced points and lift said sheet from the supply, means for moving said suction devices toward and away from the supply, means for moving said suction devices laterally away from each other while gripping the sheet to stretch the latter, and means for controlling the extent of lateral movement of said suction devices independently of each other.

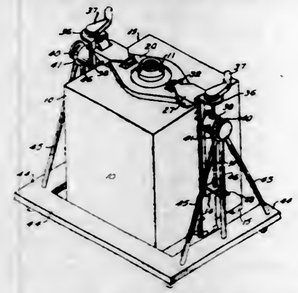
2,389,481
**SAFETY ATTACHING MEANS FOR EAR AND LIKE ORNAMENTS**
Eugene Banner, Providence, R. I.
Application September 27, 1944, Serial No. 555,961
8 Claims. (Cl. 63—14)



4. Safety attaching means for ear and like ornaments, comprising a resilient U shaped base member having means on the outer arm thereof to engage the outer surface of the ear or other object, adapted to be soldered, integral with or otherwise secured to the ornament and an inner arm terminating in a pivot forming portion substantially in alignment with said means, an edge of said inner arm forming a resilient pawl, and an arcuately bent clamping member having an end having cooperating pivot means thereon for pivotally mounting it on the end of the inner arm of said U shaped member, an upper arm extending outwardly therefrom, an arcuate elbow portion adapted to clamp an ear lobe or other object inserted between the arms of said U shaped member against said means capable of greater clamping action on any downward pull exerted on said ornament or attaching means and a resilient lower arm projecting arcuately inwardly from said arcuate elbow portion having a ratchet edge for resiliently securing said [illegible] the teeth thereof to retain said [illegible] ber in adjusted clamping position, said [illegible] said lower arm extending beyond the [illegible] of said U shaped member for [illegible] clamping member.

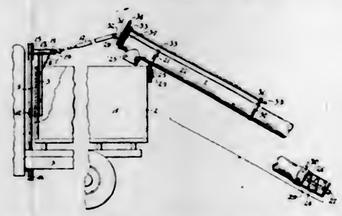


2,389,482
**CARBOY HANDLING APPARATUS**
Myron Bixler, Philadelphia, Pa.
Application September 2, 1944, Serial No. 552,551
6 Claims. (Cl. 248—142)



1. A clamp for a carboy box of the type having spaced supports on the bottom thereof for respectively engaging sustaining surfaces, comprising a base dimensioned to pass under the box between the supports without necessarily tilting or raising the box relative to such sustaining surfaces, standards attached respectively to the ends of said base, one of said standards at least being detachable, hook means on each standard, a head plate across the top of the box, latch levers respectively pivoted to said head for engaging said hook means, and means for locking said latch levers in holding engagement with said hook means.

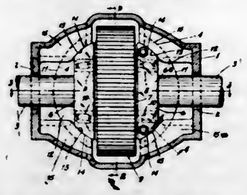
2,389,483
**REVERSIBLE GRAIN CONVEYER ASSEMBLY**
Henry Bobrowski and Wilhelm Bobrowski, Morris, Manitoba, Canada
Application July 10, 1944, Serial No. 546,193
1 Claim. (Cl. 214—83)



A reversible grain conveyer for trucks, comprising in combination with a source of power on said truck, a power transmission assembly secured to the front end of a truck body and [illegible] on the front [illegible] bracket, a [illegible] keyed [illegible] to said [illegible] be-

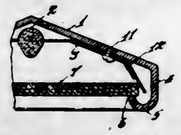
keyed to said conveyer shaft near said projecting end, said projecting end of said conveyer shaft being designed for universal coupling with the rear end of said telescopic shaft when said trunk is in the position for discharging grain into said truck, an external shaft parallel with said trunk, a pinion in mesh with said first mentioned pinion keyed to one end of said external shaft, said external shaft being less than the length of said trunk, the opposite end of said external shaft being designed for universal coupling with said telescopic shaft when said trunk is in the position for discharging grain from said truck.

2,389,484
**AUTOMOTIVE DRIVING AXLE CONSTRUCTION**
Ernest G. Boden, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 9, 1944, Serial No. 567,449
11 Claims. (Cl. 74—310)



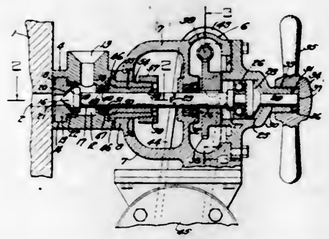
1. A housing having end openings and a side opening, shafts extending into said housing through the end openings thereof, a gear carrier fixed to said housing and having two spaced pedestals extending into said housing through the side opening thereof, and a differential gear unit journaled in said pedestals in operative relation to said shafts, said housing having inside abutment members adapted and arranged to support said pedestals against movement in said housing in directions transverse thereto and longitudinally thereof.

2,389,485
**THERMOMETER CASE**
Anthony Charles Bruns, Cincinnati, Ohio, assignor to The Palmer Company, Norwood, Ohio, a corporation of Ohio
Application February 7, 1944. Serial No. 521,381
4 Claims. (Cl. 73—374)



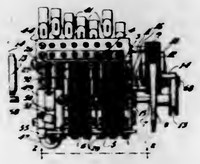
3. A thermometer case, comprising: a body having a rear wall, opposing side walls and an open front, the outer longitudinal ends of the side walls being convexed for providing a bearing edge for a transparent cover plate, a transparent closure plate [illegible] of the case [illegible]

2,389,486
**HOMOGENIZING MACHINE**
**John M. Colony, West Newton, Mass.; Margaret Wilcox Colony, executrix of said John M. Colony, deceased, assignor to Donald G. Colony, Cambridge, Mass., and John Kenneth Colony, Newton, Mass.**
**Application February 16, 1944, Serial No. 522,615**
**3 Claims. (Cl. 259—10)**



1. In a machine for homogenizing fluids, in combination, a housing, means by which the housing is held to a pressure cylinder, a valve casing removably held intermediate the housing and the cylinder, removable homogenizing members in the casing, a removable shaft by which one of the homogenizing members is rotated extending from the casing into the housing, a second shaft keyed to the first shaft, means by which the shafts are rotated, means by which the shafts are moved axially to adjust the relative positions of the homogenizing members, and adjustable packing members removably held in the adjoining walls of the valve casing and the housing by which escape of fluids along the removable shaft is prevented.

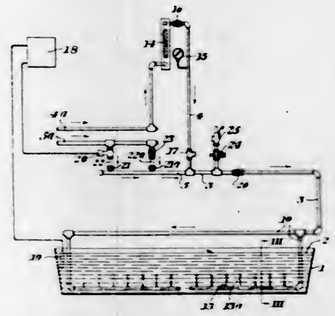
2,389,487
**TUNING STRUCTURE FOR RADIO SETS**
**Stanley S. Cramer, Haddon Heights, N. J.**
**Application December 30, 1943, Serial No. 516,263**
**28 Claims. (Cl. 250—40)**



1. In a tuning apparatus for a radio set having a loud speaker including a frame carrying a condenser structure having at least one stator and rotor unit, a primary electromagnet supported by the frame and having a circular type of armature mounted to rotate, when excited, the said rotor unit from full-capacity to full-zero capacity position on each excitation of the electro-magnet, a positioning member for said rotor also mounted to be moved with the rotor unit to its full movement in one direction by said armature, and a plurality of members slidably mounted in said frame, each of said members having a stop lever adapted to engage said positioning member, and an adjusting means to move the member to a desired position in the frame, whereby the positioning member may be stopped on its return movement at a predetermined tuning position, a stop electro-magnet carried on said member for moving the stop lever to stopping position when energized with the primary electro-magnet so as to stop the positioning member and rotor at said predetermined position on deenergization of the primary electro-magnet, and means for returning at least the rotor and positioning member to said stop or tuning position.

23. In a tuning apparatus for a radio set, a tuning structure including a movable member having two fully operative positions, means for moving said member to one of its fully operative positions and then moving it toward the other of said two positions, a positioning member and a stop device therefor moved simultaneously with said movable tuning member, the stop device being in the path of the return movement of the positioning member to stop it and the tuning member in a desired tuning position, and means for holding, under pressure, the positioning member against the stop device for the purpose described.

2,389,488
**METHOD OF AGITATION OF PICKLING BATHS**
**William H. Dailey, Jr., Library, Pa.**
**Application November 24, 1942, Serial No. 466,813**
**1 Claim. (Cl. 261—121)**



The method of agitating a pickling bath and controlling the temperature thereof which comprises forming a homogeneous mixture of steam and a gas non-condensable at the temperature of the bath, conducting said mixture to said bath, introducing it into said bath, and regulating the flow of both gas and steam to control the proportion of the non-condensable gas to the steam prior to entry of the mixture into the liquid bath to retard the rate of condensation of the steam in order to obtain the desired agitation and temperature of the bath.

2,389,489
**PLASTICIZED COMPOSITIONS**
**Russell T. Dean, Stamford, and Edwin O. Hook, Darien, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application October 15, 1942,**
**Serial No. 462,144**
**6 Claims. (Cl. 260—36)**

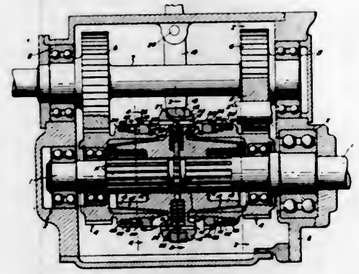
1. The process of plasticizing and softening a sulfur-vulcanizable, rubber-like copolymer of a conjugated diolefin and a compound copolymerizable therewith having a single olefinic linkage which comprises admixing therewith an alkylthiosuccinate having the structural formula

$$R{-}S{-}\underset{\displaystyle CH_2{-}COOR''}{\underset{|}{CH}}{-}COOR'$$

in which R is an alkyl radical containing 1 to 6 carbon atoms and R' and R'' are the same radicals selected from the group consisting of the alkyl radicals of from 1 to 6 carbon atoms and the tetrahydrofurfuryl radical.



2,389,490
**TRANSMISSION DEVICE**
**Joseph John Dugas, New Orleans, La., assignor to Higgins Industries, Inc., New Orleans, La., a corporation of Louisiana**
**Application March 7, 1944, Serial No. 525,420**
**7 Claims. (Cl. 192—53)**

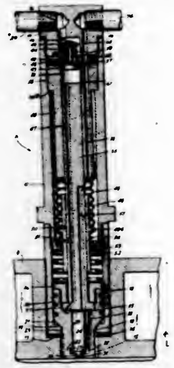


1. The combination of a shaft having circumferentially spaced longitudinally extending grooves, said grooves interrupted by annular grooves, freely rotatable gears on the shaft at each end of said grooves a medial gear formed with inwardly directed teeth complementary with the longitudinal grooves of the shaft and having radially disposed outwardly biased locking pins adapted to seat in an annular groove to lock the gear against axial movement on the shaft, with a slip ring gear axially slidable on the peripheral teeth of the medial gear, said slip ring formed with an annular groove and means adapted to seat in the annular groove of the slip ring operatively engaging the outer end of the locking pins, whereby said slip ring and gear are selectively interlocked against axial movement by said locking pins.

2,389,491
**ABRASIVE ARTICLES**
**Ralph I. Dunlap and Robert J. Schatz, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Application April 27, 1945,**
**Serial No. 590,714**
**4 Claims. (Cl. 51—298)**

1. An abrasive article comprising abrasive grains bonded by a resinous condensation product of an organic derivative of ortho silicic acid in which an average of ½ to 1½ hydroxyl groups per molecule of ortho silicic acid have been replaced by one of the group consisting of organic alkyl, aryl and aralkyl radicals.

2,389,492
**FUEL INJECTOR**
**Herbert C. Edwards, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio**
**Application February 12, 1944, Serial No. 522,036**
**6 Claims. (Cl. 123—139)**

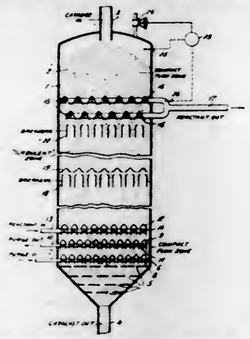


3. A fuel injector comprising a casing having a pump chamber with a fuel inlet passageway, a piston reciprocable in said casing and having an exposed surface with a fuel discharge orifice therein, a plunger reciprocable with said piston and forming a movable wall of said pump chamber, said piston and plunger having communicating passageways connecting said pump chamber and fuel discharge orifice; mechanical means for moving said piston in one direction to impart a suction stroke to said plunger, said piston being oeprable in the other direction by engine cylinder compression on said exposed surface of said piston to impart a pressure stroke to said plunger, a fuel control sleeve surrounding said plunger and having a fuel by-pass port therein, an axially extensible bellows sleeve surrounding said plunger with one end fixed to said casing and the other end supporting said fuel control sleeve, and a fuel by-pass conduit communicating with said bellows sleeve, said plunger having a fuel by-pass port adapted to register with said control sleeve by-pass port during the pressure stroke of said plunger, said fuel by-pass conduit having a restriction therein for creating a back pressure in said bellows sleeve to determine the length thereof and the axial position of the port in said fuel control sleeve relative to the port in said plunger.

2,389,493
**METHOD AND APPARATUS FOR THE CONVERSION OF HYDROCARBONS**
**Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**Application October 8, 1943, Serial No. 505,424**
**6 Claims. (Cl. 196—52)**

1. That method for the conversion of hydrocarbons in the presence of a particle form solid contact mass material which comprises flowing the contact mass downwardly under the influence of gravity through a confined passage, introducing contact mass to the top of said passage and removing it from the bottom thereof at a rate such as to maintain the passage substantially filled with a column of contact mass,

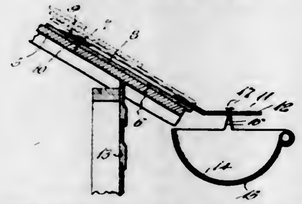
introducing fluid reactant at conversion conditions of temperature and pressure to said column at a point adjacent but spaced above the bottom thereof, removing reactant from said column at a point near but spaced below the



column top, flowing the reactant at such rate as to maintain turbulence of contact mass flow between reactant inlet and outlet, and maintaining a substantially compact contact mass column above said outlet and below said inlet.

---

**2,389,494**
**GUTTER HANGER**
**Mathias Feider, Madison, Ind.**
**Application August 15, 1944, Serial No. 549,588**
**1 Claim. (Cl. 248—48.1)**

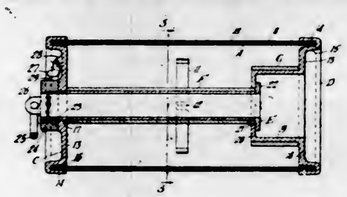


In combination with a roof gutter having a rolled outer end portion, a support for said gutter comprising an elongated metallic plate having a diagonally disposed slot extending from one of its edges longitudinally of the plate for receiving a roofing nail, the said plate having a beveled end to facilitate the insertion of the plate between layers of shingles of a roof, said plate having apertures near its end opposite the beveled end, the portion of the plate having the apertures being bent at an angle to the main portion of the plate, and a gutter supporting band having a bulged out portion corresponding to the rolled outer portion of the gutter, said band adapted to embrace the gutter and having its ends selectively projecting through the apertures and clinched over the bent portion of the plate.

---

**2,389,495**
**FILM HOLDER**
**Eric G. Forsell, Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application January 12, 1945, Serial No. 572,560**
**7 Claims. (Cl. 250—66)**

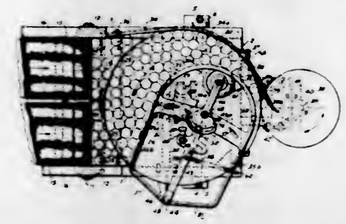
1. In a film holder, the combination with a casing comprising inner and outer, tubular shells between which the film is adapted to be held; of a front cap and a rear cap closing the ends of



said casing; and a retaining clamping element clamping said caps.

---

**2,389,496**
**APPARATUS FOR CONVEYING AND ARRANGING BOTTLES, JARS, CANS, OR THE LIKE**
**Thomas J. Gagnon, East Hartford, and Arnold S. Alcorn, Granby, Conn., assignors to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware**
**Application February 8, 1945, Serial No. 576,766**
**18 Claims. (Cl. 198—32)**



1. An apparatus of the character described, comprising a conveyor having a flat upper surface on which a large number of articles, such as bottles, jars or other containers, may stand upright, a stationary article guide rail extending above a marginal edge portion of said conveyor, a horizontally oscillatory article guide rail pivotally supported at the side of said conveyor opposite the stationary guide rail and extending obliquely across said conveyor toward said stationary guide rail, said guide rails cooperating to define between them a through passage for articles carried by said conveyor, said passage having a relatively narrow end portion through which said articles on said conveyor can pass only in a single file order, being relatively wide at its opposite end to permit entry thereinto of a crowd or congestion of such articles, and decreasing in width from its relatively wide end to its relatively narrow end portion, means for driving said conveyor to carry the articles thereon through said passage from the wider end thereof, means for oscillating said oscillatory guide rail to cause relative motion between crowded together or congested articles in said passage, and an article abutment mounted on said oscillatory guide rail for independent turning movement about a vertical axis, said abutment projecting into the passage in position to be struck and turned about its axis by the adjacent of any two of the articles attempting to move abreast through the portion of the passage containing the abutment.

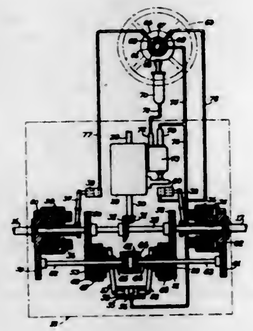


**2,389,497**
**PRODUCTION OF ELECTRICAL SILICON STEEL**
**John D. Gat, Edgewood, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey**
**Application April 14, 1943, Serial No. 483,021**
**1 Claim. (Cl. 148—21.5)**

In the processing of electrical silicon steel sheets and strip, the improvement which includes hermetically sealing such steel within an enclosure in the presence of a substance active at elevated temperatures toward the nonmetallic elements within said enclosure, and heating the steel and said substance sufficiently to effect diffusion of the nonmetallic elements through the steel, said method further including evacuating the atmosphere from the enclosure incident to the hermetic sealing thereof.

---

**2,389,498**
**STEERING MECHANISM FOR MOTOR ROAD VEHICLES**
**Geoffrey Robert Greenbergh Gates, Leamington Spa, England, assignor of one-half to Automotive Products Company Limited, Leamington Spa, England**
**Application November 25, 1944, Serial No. 565,158**
**In Great Britain October 1, 1943**
**4 Claims. (Cl. 180—17)**



1. In a vehicle including a driving motor, a drive shaft driven thereby and a pair of wheels on opposite sides of the vehicle, a normally engaged primary clutch establishing a driving connection between each wheel and the drive shaft, a three element differential gear, means establishing a driving connection between one of the elements of said differential gear and the driven side of one of said clutches, means establishing a driving connection between another of the elements of said differential gear and the driven side of the other of said clutches, means establishing a driving connection between the third element of said differential gear and said drive shaft, normally disengaged secondary clutch means in said last mentioned means establishing a driving connection, and means for selectively disengaging one of said clutches and for simultaneously engaging said secondary clutch means, whereby one of said driving wheels will be caused to rotate at a greater peripheral speed than the other to cause the vehicle to turn.

**2,389,499**
**ROLL FOR TYPEWRITERS**
**Ronald A. Gordon, New York, N. Y.**
**Application February 8, 1943, Serial No. 475,156**
**2 Claims. (Cl. 197—144)**



2. The method of producing a typewriter platen, comprising the steps of forming a relatively hard cylinder from translucent synthetic plastic material, and then imparting to it a frosty surface appearance by machining it circumferentially from end to end with spiraling circumvolutions so closely spaced as to appear fragmented.

---

**2,389,500**
**MANUFACTURE OF AMINES**
**Roland H. Goshorn, Trenton, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Original application September 7, 1940, Serial No. 355,817. Divided and this application April 2, 1942, Serial No. 437,356**
**5 Claims. (Cl. 260—585)**

1. In the manufacture of amines, the process favoring production of a high ratio of poly-alkyl amines to mono-alkyl amine comprising passing a compound of the formula ROR', in which R represents an alkyl radical having from one to five carbon atoms and R' represents a member from the group consisting of hydrogen and alkyl radicals having from one to five carbon atoms, together with ammonia through a conduit containing a dehydrating catalyst chosen from the class consisting of salts and oxides of magnesium, aluminum, titanium and thorium, coated with silica, and with a hydrogenating and dehydrogenating catalyst chosen from the class consisting of oxides of chromium, nickel and cobalt, while heating the mixture to a temperature between the initial reaction temperature and the decomposition temperature of the formed amine.

---

**2,389,501**
**FIRE EXTINGUISHER**
**Glenn G. Griswold and Floyd J. Lee, East Los Angeles, Calif., assignors to J. Leonard Hull, Los Angeles, Calif.**
**Application August 11, 1941, Serial No. 406,278**
**9 Claims. (Cl. 169—32)**

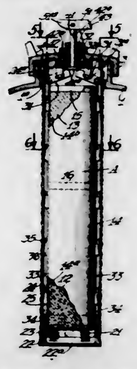


1. A fire extinguisher, comprising a pressure container having an opening, said container be-

ing adapted to contain a solvent, a cap for the opening, a plurality of axially aligned receptacles supported by the cap in the container, a different gas-forming chemical in each receptacle, said chemicals being capable of reacting with the solvent to create a gas, and means extending beyond the cap and into each of the receptacles for rupturing all of the latter, said means comprising a pair of spaced bars positioned in all of said receptacles, means for forcing said bars apart for breaking said receptacles from within, an operating member extending through the cap for actuating the last mentioned means.

---

**2,389,502**
**FIRE EXTINGUISHER**
**Glenn G. Griswold and Floyd J. Lee, East Los Angeles, Calif., assignors to J. Leonard Hull, Los Angeles, Calif.**
**Application November 7, 1941, Serial No. 418,144**
**13 Claims. (Cl. 169—32)**

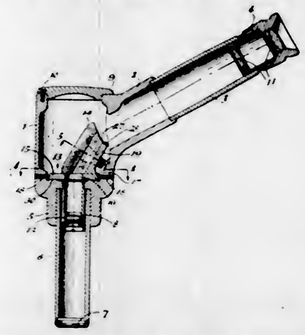


1. A fire extinguisher, comprising a pressure container, a plurality of axially aligned receptacles extending into the container from the wall thereof, a different chemical in each receptacle, and means extending outwardly beyond the wall from a position adjacent said receptacles, said means comprising bars extending longitudinally of the receptacles, and spaced circumferentially from each other with respect to the receptacles, and means for contracting said bars around the receptacles and thereby rupturing the same.

---

**2,389,503**
**OPTICAL DEVICE**
**Gustav E. Guellich and Albin A. Gradisar, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association**
**Application February 11, 1943, Serial No. 475,554**
**4 Claims. (Cl. 88—39)**

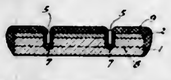
4. A microscope comprising a microscope viewing system, a microscope objective carrying tube, a body member with an opening for the viewing system of the microscope and a second opening for the objective tube of the microscope, the optical axis of the viewing system being inclined relative to the optical axis of the objective system, a prism adjustably mounted in said body member in optical alignment with the respective axes of the viewing system and objective tube, said body member having a part surrounding the objective tube and having an inner wall portion spaced from said tube, a protecting tube having an end portion in telescoped relation with the objective tube with the outer surface of said end portion engaging said inner wall portion and having a



part extending outwardly of said part of the body member surrounding the objective tube, and a transparent cover member adjacent the exposed end of said protecting tube.

---

**2,389,504**
**PROCESS OF MAKING RETICLES OR THE LIKE**
**Gustav E. Guellich, Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association**
**Application February 11, 1943, Serial No. 475,556**
**1 Claim. (Cl. 95—5.7)**



The process of making reticles or the like consisting in overlaying a surface of a relatively thin metal workpiece with a photosensitive resistant composition, exposing selected portions of said sensitized layer to light, developing said photosensitive layer and removing those portions thereof which have not been so exposed to light, subjecting the workpiece to an etching reagent while covering the rear surface of the workpiece by a protective layer, the action of said etching reagent being continued for a period of time sufficient to etch the uncovered portions of the front surface only partially through said workpiece, applying a protective coating over said etched portions, and after removing the protective coating from the rear surface of the workpiece progressively and substantially uniformly reducing the thickness of said workpiece by an etching reagent applied to said rear surface until the etched design extends through said workpiece to form the reticle or the like.

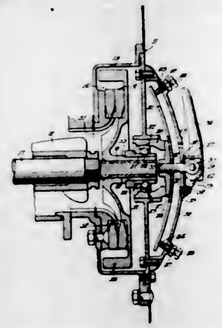
---

**2,389,505**
**GRINDING MILL**
**John R. Hall, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application October 29, 1943, Serial No. 508,149**
**16 Claims. (Cl. 241—256)**

1. In a grinding mill having a housing, a driving shaft in said housing, a pair of grinding plates, one of said plates having a splined hub engaging



a splined portion on said driving shaft, a bearing for said driving shaft slidably mounted in said housing and cooperatively engaging said hub, and



a flat spring adjustably mounted in said housing and adapted to exert pressure against the outer end of said bearing.

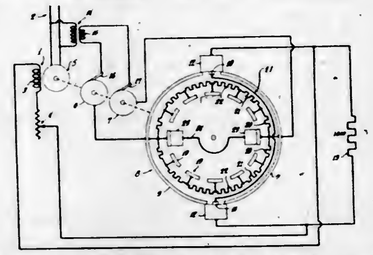
---

**2,389,506**
**MEANS FOR FOLDING THE ENDS OF COLLAPSIBLE TUBES**
**Mervil Hallead, Detroit, Mich., and Paul R. Fechheimer, Cincinnati, Ohio, assignors to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio**
**Original application November 11, 1937, Serial No. 174,079. Divided and this application January 13, 1943, Serial No. 472,228**
**6 Claims. (Cl. 113—54)**



1. In a machine for folding the ends of collapsible tubes, a base, a shaft journaled on said base, a head mounted on said base, a fixed jaw in said head, a cooperating movable jaw mounted in said head for reciprocation, a segment-shaped folding member rotatably mounted in said head and so placed that in one position, one of its faces will substantially coincide with a face of said fixed jaw, means in said head for moving said movable jaw, a cam on said shaft for actuating said moving means, means in said head for rotating said folding member, and a second cam on said shaft for moving said rotating means, the said cams being so shaped and timed as to move said movable jaw toward said fixed jaw to clamp the end of a tube therein, thereupon to rotate said folding member approximately 90°, thereupon to move said movable part away from said fixed jaw, and thereupon to rotate said folding member through approximately a second 90°.

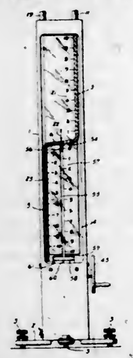
**2,389,507**
**COMMUTATION MEANS FOR ROTARY RECTIFIERS**
**Klaus L. Hansen, Milwaukee, Wis.**
**Application August 30, 1943, Serial No. 500,511**
**4 Claims. (Cl. 175—364)**



1. A device for commutating electric current comprising a revolubly mounted unit including main and auxiliary commutators, said main commutator having main segments and auxiliary segments located between said main segments, said auxiliary commutator having segments, said unit including a resistance, a bridging circuit connecting the auxiliary segments of said main commutator, said auxiliary commutator having its segments connected to spaced points of said resistance and having spaced segments connected to the main segments of said main commutator, main and auxiliary brushes bearing on said main and auxiliary commutators respectively, and a bridging circuit connecting said auxiliary brushes.

---

**2,389,508**
**MANOMETER**
**Arthur A. Hejduk, Cleveland, Ohio, assignor to The Meriam Instrument Company, Cleveland, Ohio, a corporation of Ohio**
**Application July 19, 1944, Serial No. 545,594**
**16 Claims. (Cl. 73—401)**



11. A manometer comprising a housing, a scale plate mounted in the housing adjacent the front thereof, and having a vertical slot, a manometer tube mounted in said housing in front of said plate, said tube having a portion intermediate its ends inclined at a small angle to the horizontal and a vertical portion above said inclined portion, a graduated scale alongside the upper portion of said tube and having a zero graduation intermediate the ends of said inclined portion of the tube, a graduated scale extending along said slot, a car-

rier mounted for vertical movement in said housing, said carrier having a portion projecting into said slot and adapted to be alined with graduations of the scale alongside the slot, a well carried by said carrier and connected to said tube, a vertical screw for actuating said carrier, the pitch of said screw being an aliquot part of a unit space on the scale alongside the slot, a wheel connected to the screw and having peripheral graduations for indicating the angular position of the screw with respect to its axis, and means for adjusting the well vertically on said carrier to bring the liquid column in the tube to said zero graduation when the pressures on the liquid in the tube and well are the same and said carrier lug is alined with a graduation of the adjacent scale.

---

**2,389,509**
**WINDOW AND IMPROVED CONSTRUCTION THEREFOR**
**Sallye Heilman, Jamaica, N. Y.**
**Application September 21, 1944, Serial No. 555,108**
**2 Claims. (Cl. 98—96)**
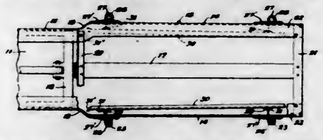


1. In a window, in combination, a frame forming a window opening, a window pane consisting of a single continuous curved piece of transparent material extending outwardly from said frame and overhanging the same and covering said window opening, said pane having a downwardly extending bulged out portion, the lower end of said pane being spaced from the base of said frame and forming a semi-elliptical ventilating opening therewith, means to control the passage of air through said ventilating opening, said means comprising a shaft turnably supported by said frame, a bevelled first gear secured to said shaft and turnable therewith, said gear being normal to the longitudinal axis of said shaft, a bevelled second gear spaced from said shaft and turnably supported by a stepped bearing member, said second gear being parallel to said shaft and meshing with said first gear, a semi-elliptical closure member secured to and depending from said shaft and turnable therewith, and crank-handle means connected to the second gear to turn said second and first gears and shaft whereby said closure member is swung into a position closing said ventilating opening.

---

**2,389,510**
**BALING PRESS**
**Rex B. Hitchcock, Evanston, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application May 15, 1944, Serial No. 535,619**
**8 Claims. (Cl. 100—23)**

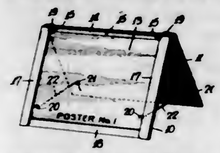
1. A baling chamber construction for balers in which the material is fed through a chamber under compression and tied while under compression, comprising a feed chamber having a feed opening thereto and a plunger reciprocable therein, a baling chamber in alignment with the feed chamber, said baling chamber being larger in one transverse direction than the feed chamber and having side walls in said direction spaced



outwardly from the corresponding side walls of the feed chamber, bale-engaging members mounted in the bale chamber spaced from said side walls, yieldable means for holding said members in position and for permitting the members to move forwardly and simultaneously outwardly to relieve compression on the bale upon the exertion of force thereagainst.

---

**2,389,511**
**DISPLAY DEVICE**
**John V. Horr, North Tarrytown, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware**
**Application January 22, 1944, Serial No. 519,273**
**2 Claims. (Cl. 40—152.1)**



1. A display device comprising a stiff backing element, a display unit thereon, a stiff cover element adapted to overlie said display unit when the device is closed, said cover element having its top edge hinged to the top edge of the backing element so that it may be swung upwardly and around to serve as a rear prop which supports the backing element as an inclined easel for said display unit, a fastening member carried by one of said eelments, and a complementary anchorage carried by the other of said elements, said fastening member being adapted to extend either around the backing and cover elements to retain the device in closed condition or across the gap between the backing and cover elements to serve as a brace when the device is set up as an easel, each of said fastening member and complementary anchorage being secured to the outer face of the element carrying it.

---

**2,389,512**
**TESTER FOR WELLS**
**Granville A. Humason, Houston, Tex.**
**Application January 28, 1943, Serial No. 473,816**
**5 Claims. (Cl. 255—1.4)**

5. In apparatus for testing wells, a tubular drill stem, a testing tool shaped to enter the stem and comprising an upper valve casing and lower tubular nipple arranged telescopically, a tubular member connected to said casing and containing a sample chamber, a barrel above, and connected to, said tubular member and provided with an outlet which leads outwardly from said chamber, a probe connected to the nipple and adapted to penetrate into the earth formation in a well bore



and said probe and nipple having an inlet passageway leading into said chamber, an inlet valve controlling said inlet passageway, sealing means on the tool provided to form a seal between the tool and the surrounding drill stem, a downwardly



opening valve controlling the outlet, means normally holding the downwardly opening valve closed, a coupling on said barrel, means releasably connected to the coupling and adapted to be moved downwardly relative to the barrel to open said downwardly opening valve.

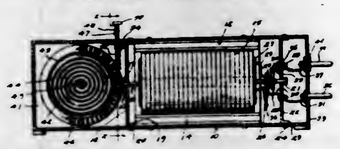
---

**2,389,513**
**LUBRICATING COMPOSITION**
**Lebbeus C. Kemp, Jr., Scarsdale, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**No Drawing. Application November 10, 1942, Serial No. 465,167**
**13 Claims. (Cl. 252—46.6)**

1. A lubricant comprising a hydrocarbon oil containing 0.1–10.0% by weight, based on the finished lubricant, of an organic ester of phosphoric acid, said organic ester being derived from a long chain unsaturated alkyl phenol present in or derived from oils extracted from the Anacardium genus of the Anacardiaceae family.

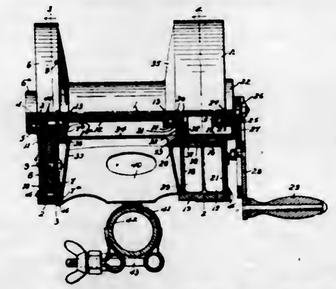
---

**2,389,514**
**SPRING MOTOR DRIVEN GENERATOR**
**Raymond A. Kennedy, Sioux City, Iowa**
**Application April 14, 1944, Serial No. 531,085**
**2 Claims. (Cl. 171—76)**



1. A generator unit comprising a housing, an electric generator in said housing, a pair of terminals carried by said housing projecting from the latter and connected to said generator, a spring motor in said housing, a beveled gear connecting said motor with the armature of said generator, a ring gear having beveled teeth meshing with said beveled gear, and a spring-pressed latch engageable with said gear for normally holding said bevel motor and generator inoperative.

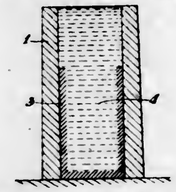
**2,389,515**
**FISHING REEL**
**James T. King, Burbank, Calif.**
**Application January 12, 1944, Serial No. 517,997**
**4 Claims. (Cl. 242—84.5)**



4. In a fishing reel: a fishing reel support; a fishing reel spool rotatably mounted on said fishing reel support; a crankshaft with a hand crank, combined with a fluid drive operatively connecting said crankshaft with said spool, said fluid drive comprising a housing carried by said support, a liquid confined within said housing, vanes carried by said spool within said housing and other vanes within said housing and operatively connected with said crankshaft.

---

**2,389,516**
**METHOD OF PRODUCING HIGH-TENSILE STRENGTH DEEP-DRAWING STEEL**
**James W. Kinnear, Jr., Pittsburgh, Pa.**
**Application November 24, 1941, Serial No. 420,323**
**1 Claim. (Cl. 22—206)**



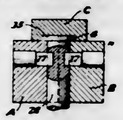
A method of casting steel, characterized by casting effervescing steel into an ingot mold, allowing said steel to effervesce until a solidified skin forms, casting steel of a different chemical composition into said ingot mold while the central portion of said effervescing steel is molten to displace said central portion by the second named steel and allowing the latter to solidify and integrally join with said skin, the second named steel being of higher tensile strength than said effervescing steel by containing a suitable amount of a strengthening element.

---

**2,389,517**
**METHOD OF MANUFACTURING STOPPER RODS**
**Jacob T. Labadie, Gary, Ind.**
**Application November 16, 1942, Serial No. 465,797**
**2 Claims. (Cl. 29—148)**

1. The herein described method of forming a one-piece stopper rod for ladles and the like, including heating one end of an elongate blank to forging temperature, indenting the said heated end of the blank upon opposite sides, then par-

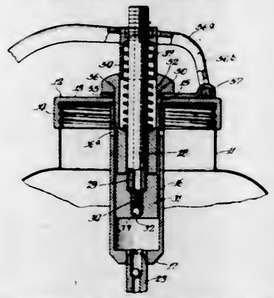
tially slotting said blank inwardly from opposite sides thereof at right angles to and in the region of said indentations, upsetting the extreme end



portion of the blank adjacent said region to form a head of enlarged diameter, and longitudinally drilling the said end of the blank to intersect the slots formed therein.

---

**2,389,518**
**PUMP OILER**
**Hal Lainson and Arthur J. Semotan, Hastings, Nebr., assignors to Dutton-Lainson Company, Hastings, Nebr., a corporation of Nebraska**
**Application June 15, 1944, Serial No. 540,442**
**7 Claims. (Cl. 222—340)**

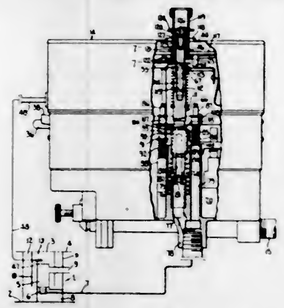


1. In an oiler of the kind described, a support in the form of a can top having an annular peripheral flange and an opening, a tubular housing extended through the opening and having a head on one side of the support, a cylinder on the other side of the support connected to said housing to grip the support between the housing and the cylinder, a gasket between the cylinder and the support to make a tight joint at the opening, and a tight joint where the support engages the can, a valve-controlled means for supplying oil to the cylinder, a piston in the cylinder having a valve, a piston rod extending from the piston through the housing, forming part of a spout, spring means for holding the piston at one limit of its movement, which limit is determined by the housing, a cap for the spring means, said cap and housing having telescopic relation for enclosing the spring means, means for actuating the piston and piston rod against the tension of such spring means, said piston actuating means including a handle connected to the piston rod, and a bracket having a pivotal connection with the handle, said bracket having a portion gripped by the housing against the support.

---

**2,389,519**
**BURNER CONTROL MEANS**
**Walter S. Landon, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan**
**Application September 4, 1942, Serial No. 457,310**
**11 Claims. (Cl. 236—10)**

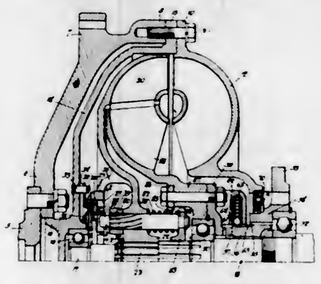
2. A heating apparatus comprising a furnace having a combustion chamber and an air flow passageway, a liquid fuel burner for said chamber, a liquid fuel reservoir, a valve operable to regulate the supply of fuel from said reservoir to said burner, thermostatic means for regulating said valve in accordance with air temperature in said passageway, means determining the minimum open position of said valve, a control valve responsive to liquid level in said reservoir and operable to shut off the supply of fuel to said



burner, lost-motion means providing for continued movement of said thermostatic means upon limitation of said first-named valve by said determining means, releasable means operable to move said control valve to closed position, said thermostatic means acting upon said continued movement to release said releasable means, and means operable to release said releasable means upon occurrence of excess liquid level in said reservoir.

---

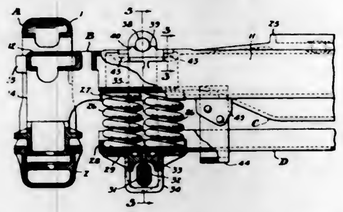
**2,389,520**
**TORQUE CONVERTER**
**Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Berrien, Mich., a corporation of Michigan**
**Application July 17, 1941, Serial No. 402,766**
**5 Claims. (Cl. 60—54)**



3. In a torque converter having an impeller, a rotor and a stator, means for clutching said rotor and stator together for conjoint rotation under predetermined conditions of torque and speed, comprising axially shiftable pins carried in the hub of said rotor, a clutch gear carried by said pins and operable to engage a stator clutch gear, spring means imposing a predetermined bias on said pins holding said gears out of engagement, speed responsive means carried by said pins and operable upon said rotor reaching a predetermined speed for overcoming said bias to urge said gears into engagement.



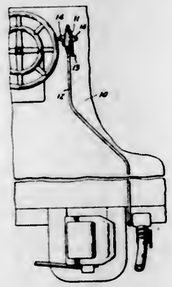
**2,389,521**
**RAILWAY CAR TRUCK**
**Rudolph Leppla, Pittsburgh, Pa., assignor to McConway & Torley Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Original application December 31, 1942, Serial No. 470,788, now Patent No. 2,373,576, dated April 10, 1945. Divided and this application October 16, 1943, Serial No. 506,469**
**2 Claims. (Cl. 105—190)**



1. In a car truck, side frames, spaced cross frame members connecting said side frames and having recesses in the tops thereof adjacent their ends, a bearing block reversibly seated in each of said recesses, each block having a transverse bearing socket in its upper face nearer one end thereof than the other, suspension links having trunnions at their upper ends seated in said sockets and a spring plank carried by said links.

---

**2,389,522**
**VALVE RETAINER**
**Rudolph Leppla, Pittsburgh, Pa., assignor to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland**
**Application November 13, 1943, Serial No. 510,245**
**2 Claims. (Cl. 248—300)**



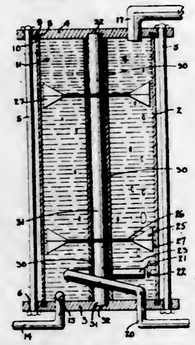
1. Means for attaching to a railway car wall a pressure retaining valve having a body and integral attaching lugs extending from opposite sides of the valve body even when one or both lugs are broken, comprising a one piece adapter bracket in the form of a channel adapted to receive the valve body, said bracket having a web adapted to be secured to said wall and side flanges substantially at right angles to said web and having arms extending in substantially parallel relation to said web and spaced outwardly from said web and having side faces adapted to engage with the opposite sides of the valve body and inner edges engageable with the outer faces of said lugs.

**2,389,523**
**BARIUM CALCIUM MAGNESIUM STEARATE GREASE**
**Frank A. Leyda, Berkeley, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application November 2, 1943, Serial No. 508,749**
**8 Claims. (Cl. 252—39)**

1. A mixed base, anhydrous grease consisting of mineral oil and soaps of barium, magnesium and at least one metal of the group consisting of calcium and strontium, said magnesium soap being present in proportions ranging from 10 to 20% of the soaps present so as to produce a thermally reversible grease.

---

**2,389,524**
**CHLORINATING APPARATUS**
**Walter Loewenstern, Houston, Tex., assignor to Houston Oxygen Company, Houston, Tex., a corporation**
**Application February 2, 1944, Serial No. 520,817**
**1 Claim. (Cl. 261—93)**



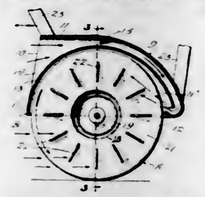
A chlorinating device including a frame made up of end plates and a cylindrical transparent cylinder, a sealing groove containing sealing material in each end plate to receive said cylinder ends, means to clamp the ends together to provide a mixing chamber within said cylinder, water inlet and outlet means carried by said end plates, a shaft clamped between said plates, loosely slidable and rotatable spacer sleeves about said shaft, freely rotatable impeller mixers spaced by said spacers to rotate due to the flow of water thereby, and means for introducing chlorine gas adjacent the base of said chamber in a tangential direction to mix with and be circulated by the incoming water.

---

**2,389,525**
**WHEEL MOUNTING FOR AIRCRAFT**
**Lyndon W. Manheim, Sr., Greensboro, N. C., assignor of one-half to Lyndon W. Manheim, Jr., Gastonia, N. C.**
**Application December 8, 1942, Serial No. 468,276**
**4 Claims. (Cl. 244—103)**

1. A wheel mounting for aircraft, comprising a wheel having a continuous ground engaging tread and a substantially horizontal axis of rotation when engaging the ground, a casing arranged above the wheel and having a main chamber extending longitudinally of the direction of flight of the aircraft for receiving the upper portion of the wheel, the wheel projecting downwardly

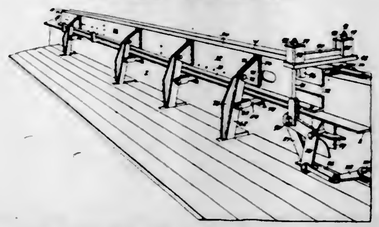
below the sides of the casing, means forming with the casing an air passage separate from the chamber, the air passage extending longitudinally of the direction of flight and having its forward end open so that air currents travel rearwardly through the passage, means for discharging the air currents from the passage in a forwardly



direction into the main chamber, an axle for the wheel substantially horizontally arranged when the tread of the wheel engages the ground, and means to mount the casing and axle upon the aircraft and hold the axle substantially horizontal when the tread of the wheel engages the ground.

---

**2,389,526**
**CENTER SILL JIG**
**Arthur W. Maulding, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application August 19, 1942, Serial No. 455,303**
**5 Claims. (Cl. 113—99)**



3. The combination in a jig for assembling center sills made up of two longitudinal parts, a support structure to receive the two center sill parts, a plurality of pairs of opposed pressure heads engageable with the outer surfaces of the sill parts to hold the same on the support structure, pairs of opposed levers with each lever pivotally connected adjacent one end to a pressure head, equalizing means pivotally connecting each pair of opposed levers intermediate their ends, means for pivotally connecting the opposite end of one of each pair of levers to a fixed member, the opposite end of the other lever of each pair being pivotally connected to power actuated means, said power means and equalizer actuating said pairs of levers in unison to thereby force said pressure heads with equal pressure into flat engagement with the outer surface of said sill parts.

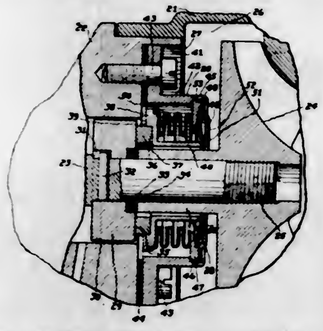
---

**2,389,527**
**LUBRICANTS**
**Rush F. McCleary, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**No Drawing. Application June 30, 1942, Serial No. 449,177**
**15 Claims. (Cl. 252—46.7)**

1. A lubricant comprising a hydrocarbon lubricating oil having incorporated therein 0.01–5.0% by weight of an oil-miscible metal salt of a sulfur-containing substituted acid of phosphorus possessing at least one ester radical derived from a sulfurized unsaturated alkyl phenol containing at least five carbon atoms in the unsaturated alkyl radical thereof.

---

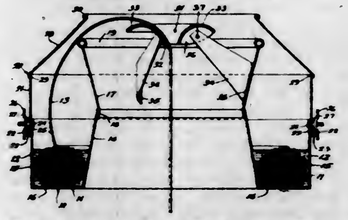
**2,389,528**
**SEALING DEVICE**
**James W. McConaghy, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application March 17, 1944, Serial No. 526,889**
**3 Claims. (Cl. 286—11)**



1. In a sealing device, the combination of a casing having a chamber for fluid and a rotor having a sealing surface, an annular sealing member to cooperate with the sealing surface for controlling the leakage of fluid from the chamber, an annular extension for the sealing member, said sealing member and said extension encircling the rotor in spaced relation with respect to the rotor, a support member on the casing arranged in coaxial relationship with the rotor, and an annular plate spring of dish-shape having an annular marginal portion seated in the support member and another annular marginal portion of its concave surface in frictional engagement with an end of the extension and being flexed to press the sealing member against the sealing surface and to suppress vibration of the sealing member.

---

**2,389,529**
**WIRE CONTAINER**
**Robert P. Messenger, Kenilworth, and Lee H. Kaupke and Russell R. Raney, La Grange, Ill., assignors to International Harvester Company, a corporation of New Jersey**
**Application August 26, 1944, Serial No. 551,344**
**8 Claims. (Cl. 242—129)**
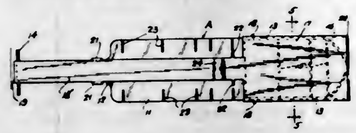


1. A wire container adapted to permit withdrawal of a single strand of wire, comprising a



circular receptacle U-shaped in cross-section for holding a coil of wire, an upstanding member supported by the inner periphery of the U-shaped receptacle having a circular upper rim, and a central guide supported within and adjacent the upper edge of said circular rim, said central guide having a downwardly and inwardly curved flange conducive to easy passage of a strand of wire.

---

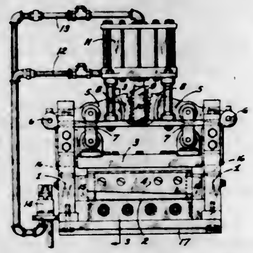
**2,389,530**
**COMPARTMENT MEASURE**
**James B. Miner, Portland, Oreg.**
**Application June 6, 1944, Serial No. 538,948**
**4 Claims. (Cl. 73—426)**



2. A device of the kind described, comprising a main body part having a bowl-like end, a plurality of transverse parallel partitions in the bowl-like end dividing the same into compartments having predetermined capacities for purposes of measurement, a scale marked plate-like intermediate portion and a handle end opposite the bowl-like end, a gate slidably fitted to the body part to move longitudinally thereof for selective coverage of the compartments of the bowl-like end and coactive with the scale marked plate-like intermediate portion, and a scale pointer on the gate co-acting with the scale markings on the said intermediate portion.

---

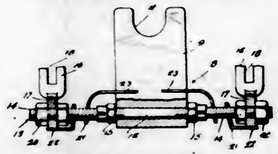
**2,389,531**
**SHEAR**
**Frank T. Neale, Warren, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey**
**Application June 15, 1944, Serial No. 540,477**
**6 Claims. (Cl. 164—56)**



1. In a shear comprising a frame having a slideway, a shear blade in fixed position on said frame, a slide in the frame slideway and a shear blade attached to said slide, the combination of a plurality of levers pivotally connected between their ends to said slide, said levers having gear segments on their adjacent ends and being pivoted at their remote ends to said frame, a longitudinal rack engaging the gear segments on said levers, and means to reciprocate said rack and move said levers about their pivot points of attachment to said frame, and thereby to reciprocate said blade carrying slide in the frame slideway.

---

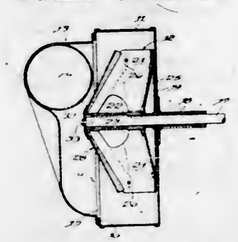
**2,389,532**
**DRILL ALIGNING ADAPTER ATTACHMENT FOR LINERS AND OTHER ROCK DRILLS**
**Clarence D. Nelson, Mullan, Idaho, assignor of one-half to Edna Hanson, Wallace, Idaho**
**Application March 22, 1944, Serial No. 527,608**
**2 Claims. (Cl. 255—51)**



1. An alignment attachment for rock drilling machines comprising a shaft, brackets for adjustably and detachably mounting the shaft on the machine, and an aligning member on the central portion of the shaft, said aligning member being in the form of a rectangular plate having its upper end provided with a notch, the lower end being slidably and pivotally mounted on said shaft.

---

**2,389,533**
**COTTON CONVEYER BLOWER**
**Louis E. Nickla, Cicero, and Arthur R. Crawford, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey**
**Application March 19, 1945, Serial No. 583,566**
**4 Claims. (Cl. 302—37)**



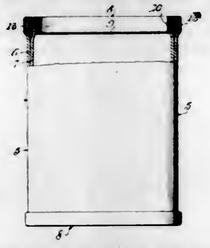
1. A seed cotton transferring blower comprising a fan blade rotor having air admittance at an end and radial discharge of such air, a rotor casing including a wall spacedly circumscribing the rotor in radial registry, therewith and having a discharge passage for the blower, and a vestibule disposed oppositely to the air admittance end of the rotor out of radial registry therewith, said vestibule containing an inlet passage portion in the form of a helical cotton-deflector wall leading circumferentially of the rotor axis and axially of the rotor onto said circumscribing wall.

---

**2,389,534**
**CLOSURE FOR PAPER CONTAINERS**
**Frank J. O'Brien, Pelham, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application November 19, 1943, Serial No. 510,967**
**4 Claims. (Cl. 229—5.6)**

1. In a container, a double walled body of paper, and an end closure therefor having two deep parallel annular channels separated by a separator wall extending substantially the full depth of said channels and formed by two thicknesses of end closure stock, the inner and outer walls of

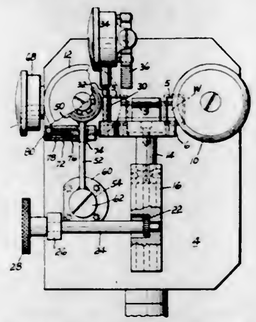
the annular channels being parallel and the separator wall being inserted between the double walls of the body, each said channel embracing therein



one of said double walls, and a sealing medium in each said channel and forming an adhesive union against the individual body wall portion embraced therein.

---

**2,389,535**
**GAUGING**
**Theodore A. Olson, Pompton Plains, and Joseph Klopak, Newark, N. J., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application August 7, 1942, Serial No. 454,055**
**6 Claims. (Cl. 88—24)**

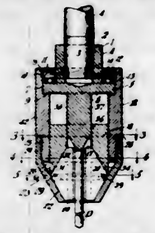


6. In a machine for inspecting the profile of a curved raceway on a bearing ring, a pair of gauging members spaced apart and having their peripheral edges curved on different radii to represent maximum and minimum acceptable radii for the raceway, a work support engaging the end face of the ring to hold the raceway in mating relation with the member, means for directing light through any spaces existing between the curved raceway and the similarly curved gauging members, and means for producing magnified images of said spaces for observation.

---

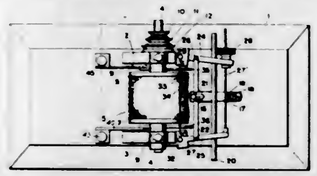
**2,389,536**
**CHUCK**
**Charles A. Palmgren, Chicago, Ill.**
**Application October 23, 1943, Serial No. 507,350**
**6 Claims. (Cl. 279—60)**

1. In a chuck of the class described, the combination of a body member having a central stem, a rotatable barrel member mounted on said body member and rotatable with respect thereto and having a downwardly converging, interior cam surface, a rotatable jaw-actuating member having threaded connection with said stem and having upwardly converging cam surfaces, jaw members mounted in said barrel member and positioned between said downwardly and upwardly converging cam surfaces and having corresponding downwardly and upwardly converging cam surfaces cooperating therewith and adapted upon the rotation of said barrel member to be moved radially inwardly thereof to grip the shank of the drill inserted in said barrel.



---

**2,389,537**
**MULTIPLE JEWEL OLIVING MACHINE**
**Paul Numa Paros, Lancaster, and George William Grisdale, Jr., Ephrata Township, Lancaster County, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.**
**Application November 26, 1943, Serial No. 511,850**
**9 Claims. (Cl. 51—156)**



2. A jewel oliving machine comprising an abrading wire supporting a plurality of said jewels, a rotatable brush, means supporting said abrading wire and jewels in close proximity to said rotating brush, said abrading wire being movable to cause the brush to impart both rotation and lateral fluttering motion along the length of said wire to said jewels.

---

**2,389,538**
**FOUNDRY COMPOSITION**
**Arnold Edward Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Application July 23, 1943, Serial No. 495,898**
**5 Claims. (Cl. 22—188)**

1. In a composition of matter, a foundry binder comprising a non-swelling montmorillonite clay with dry boric acid present in the approximate range of 5% to 30% by weight.

---

**2,389,539**
**FOUNDRY COMPOSITION**
**Arnold Edward Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Application July 23, 1943, Serial No. 495,899**
**8 Claims. (Cl. 22—188)**

1. In a composition of matter, a foundry binder consisting essentially of a bentonite clay together with ½% to 50% by weight of one or more of the compounds selected from the group consisting of anhydrous calcium sulphate, plaster of Paris, and gypsum.

---



**2,389,540**
**FOUNDRY COMPOSITION**
**Arnold Edward Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Application July 23, 1943, Serial No. 495,900**
**5 Claims. (Cl. 22—217)**

3. In preparing a foundry binder, the art which comprises subjecting a bonding clay to autoclaving at superatmospheric pressures for an appreciable interval of time.

---

**2,389,541**
**FOUNDRY COMPOSITION**
**Arnold Edward Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Application July 23, 1943, Serial No. 495,901**
**4 Claims. (Cl. 22—217)**

1. In preparing a composition of matter for foundry purposes the art which comprises, in combination, subjecting dry pulverized southern bentonite bonding clay to treatment at temperatures of 200° F. or more for several hours, then blending with silica sand the heat-treated southern bentonite in the amount of ½% to 10% by weight.

---

**2,389,542**
**FOUNDRY COMPOSITION**
**Arnold E. Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Original application July 23, 1943, Serial No. 495,900. Divided and this application June 30, 1945, Serial No. 602,670**
**3 Claims. (Cl. 22—217)**

1. In preparing a foundry binder, the art which comprises treating a bonding clay with about 5% to 30% by weight of calcium sulphate and subjecting the treated clay to autoclaving at superatmospheric pressures for an appreciable period of time.

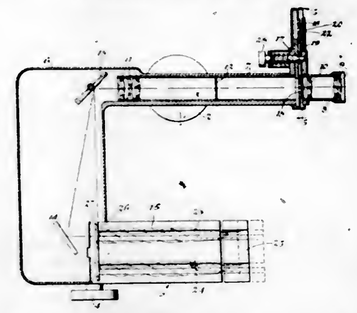
---

**2,389,543**
**FOUNDRY COMPOSITION**
**Arnold E. Pavlish and Chester Ronald Austin, Columbus, Ohio, assignors, by mesne assignments, to Peerpatco, Incorporated, Indiana, Pa., a corporation of Delaware**
**No Drawing. Original application July 23, 1943, Serial No. 495,901. Divided and this application June 30, 1945, Serial No. 602,671**
**3 Claims. (Cl. 22—217)**

1. In preparing a foundry binder, the art which comprises subjecting one or more of the group consisting of dry pulverized montmorillonite and kaolinite bonding clays treated with 5% to 30% by weight of calcium sulphate to treatment at a temperature of 200° F. or more for several hours.



**2,389,544**
**OPTICAL TOOL GAUGE**
**William F. Peck, Snyder, and Gustav E. Guellich, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association**
**Application November 19, 1941, Serial No. 419,698**
**4 Claims. (Cl. 88—14)**



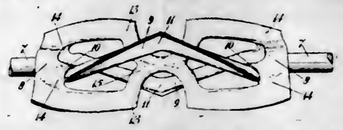
1. An optical tool gauge for selectively viewing different portions of a tool or the like comprising the combination with means for supporting a tool to be gauged, of a viewing system for providing an aerial image of a portion of the tool selected to be gauged, said viewing system having a standard or gauge member inserted therein so as to be superposed on said aerial image, and a reflector system cooperating with said viewing system in forming said aerial image, one reflector of said system being aligned with said viewing system and a second reflector being arranged to reflect light from the tool to the first mentioned reflector, the reflector aligned with said viewing system being adjustable selectively for reflection of light received directly from a portion of the tool or for reflection of light received from said second reflector, said supporting means being provided with positioning means for disposing the tool so that a portion thereof is in optical alignment with the second reflector, and with additional positioning means for alternatively disposing the tool so that another portion thereof is in optical alignment with the adjustable reflector, the positioning means being so arranged that the length of the indirect light path from the first mentioned portion of the tool to the adjustable reflector is equal to that of the direct light path from the second mentioned portion of the tool to the adjustable reflector.

---

**2,389,545**
**MIXING, KNEADING, SHREDDING, PULPING, AND LIKE MACHINE**
**John Edward Pointon, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England**
**Application February 7, 1944, Serial No. 521,469**
**In Great Britain January 28, 1943**
**3 Claims. (Cl. 259—129)**

1. A bladed element adapted for rotation within the trough of a mixing, kneading, shredding or pulping machine, comprising axially spaced trunnions, bosses on the inner ends of the trunnion, two pairs of blades integral with said bosses, said plates adapted to cooperate with a fixed saddle piece located in said trough, the blades of one pair being continuous and terminating short of

the ends of the trough and having portions of opposite inclination so as to form a substantial V, the blades of the other pair having portions of opposite inclination but disposed in the reverse sense to the first pair and extending to the ends



of the trough but interrupted adjacent the middle plane of the trough and an integral piece of X-shape formation arranged substantially parallel to the axis of the blades connecting the adjacent ends of the interrupted blades together.

---

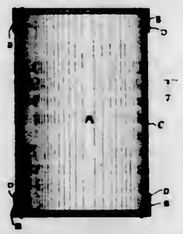
**2,389,546**
**CURTAIN HANGER**
**John D. Praggastis, Milwaukie, Oreg.**
**Application October 15, 1943, Serial No. 506,363**
**4 Claims. (Cl. 211—105.1)**



2. A curtain hanger of the character described comprising, a curtain rod, said rod having a groove extending longitudinally along the bottom edge at each end of the rod, a bracket support for each end of said rod, each of said bracket supports including a downwardly extending leg portion, an arm extending from the bottom of said leg portion and adapted to be engaged by the bottom groove of said rod, and an upturned finger at the end of said arm, said rod having a hole near each end extending upwardly into said rod from said bottom groove, said holes adapted to engage the upturned fingers respectively of the bracket supports, the distance of each of said holes from the corresponding end of the rod being substantially equal to the length of said bracket support arm, and means for mounting each of said bracket supports.

---

**2,389,547**
**CYLINDRICAL CONTAINER AND THE LIKE**
**William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio**
**Application December 1, 1942, Serial No. 467,500**
**5 Claims. (Cl. 229—5.5)**



1. A heavy duty cylindrical container formed of heavy paperboard and comprising a flat-folding body portion which is a blank having an attachment flap articulated at one end and an intermediate score line, together with top and bottom out-turned flange portions articulated by means of longitudinal scores, said attachment flap being attached to the opposite end of said blank to form a tubular structure erectable from the flat-folded condition to a cylindrical condition, together with end closure members for said body portion, each of said end closure members having a band portion of heavy paperboard with an attachment flap at one end, said attachment flap being joined to the other end of said band to cause said band to assume a circular configuration, one edge of said band portion having a plurality of tapered teeth sufficiently narrow at their bases to permit bending into a plane transverse said band portion without destroying the substantially circular configuration thereof, a disc of paperboard within said band portion and conforming thereto, said teeth being bent over against said disc, a second disc overlying said band, and the said discs and teeth being joined by a line of stitching with thread passing through and engaging said discs and teeth, the said attachment flap being articulated to said band portion by an offset score line whereby to preserve the circular configuration of the inner surface of the band portion, said band portion at its other edge having in-turned flange means to engage with the out-turned flange means of said body portion.

---

**2,389,548**
**TAP**
**Joseph A. E. Romanoski, Huntington, N. Y.**
**Application March 31, 1944, Serial No. 528,919**
**1 Claim. (Cl. 10—147)**



A tap having a threaded end portion and an axial bore extending therein from the leading end thereof and past said portion, a pilot spindle removably inserted in said bore and having an outer end extending out of the same, and a pilot member detachably attached to said end, and a set screw extending into said tap in the rear of said portion and engaging said spindle.

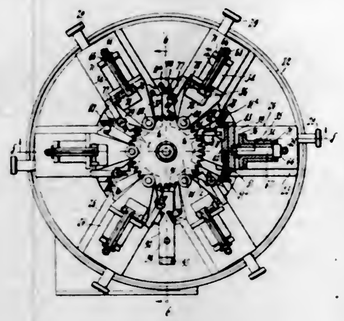
---

**2,389,549**
**MACHINE FOR HONING TOOTH GROOVES OF GEAR FINISHING TOOLS**
**Walter F. Ross, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont**
**Application February 4, 1941, Serial No. 377,279**
**25 Claims. (Cl. 51—58)**

3. A machine for honing the sides of grooves in the faces of the teeth of a gear shaving tool



comprising a work support adapted to hold such a tool, a honing unit having hones formed and arranged to enter grooves in a side of such a tooth, a supporting bracket, a swinging member pivoted to said bracket on which the honing unit



is mounted with provision for reciprocating movement substantially parallel to the axis of the swinging member, means for oscillating the swinging member, and means for applying force yieldingly and in alternately opposite directions to the honing unit for so reciprocating said unit.

---

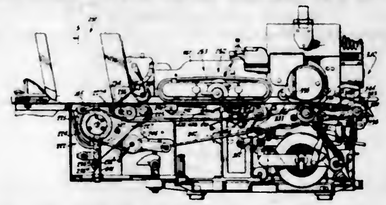
**2,389,550**
**CATALYTIC ALKYLATION PROCESS**
**William E. Ross, Berkeley, Sumner H. McAllister, Lafayette, and John Anderson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application February 27, 1941, Serial No. 380,892**
**11 Claims. (Cl. 260—683.4)**

11. In a process of alkylating an organic compound in which a hydrogen atom can be substituted by an alkyl group by reaction with an alkylating agent, the improvement which comprises contacting said reactants in the presence of a liquid mixture of an aluminum halide and a molecular excess based upon said aluminum halide of a metal salt which does not react with said aluminum halide in the presence of a hydrogen halide.

---

**2,389,551**
**APPARATUS FOR FEEDING AND EJECTING ENVELOPES**
**Commodore D. Ryan, Los Angeles, Calif., assignor to Commercial Controls Corporation, a corporation of Delaware**
**Original application December 2, 1941, Serial No. 421,321. Divided and this application October 16, 1942, Serial No. 462,262**
**7 Claims. (Cl. 271—35)**

3. In a conveyor mechanism for feeding objects from the feed hopper of an object treating machine, in combination, a carriage mounted below said hopper for movement relative to the machine frame, friction means mounted on said carriage and movable relative thereto, said friction means being disposed below said feed hopper and movable toward and away from said hopper, said friction means also being movable in a direction to feed objects from said hopper, a pulley, a belt for driving said pulley, and means forming a driving connection between said pulley and said carriage and friction means for positively moving said friction means into object engaging position



and for driving said friction means in object feeding direction.

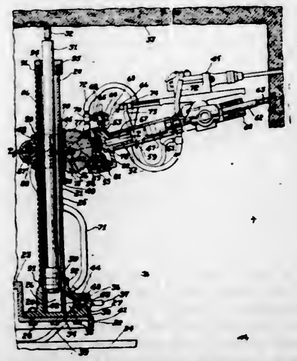
---

**2,389,552**
**MATCH COMPOSITIONS**
**Arthur H. Sanford, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 18, 1941, Serial No. 419,585**
**6 Claims. (Cl. 52—27)**

6. A match comprising a cardboard splint provided with a tip of igniting composition consisting of an igniter, a filler and polymerized rosin having a drop melting point between about 95 and about 120° C., the said polymerized rosin being present in an amount sufficient to provide binding action on the igniter and filler and to provide a moisture-resistant and nonsticky tip.

---

**2,389,553**
**MOUNTING FOR ROCK DRILLS**
**Oliver H. Sellars, Glen Ridge, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application September 9, 1944, Serial No. 553,397**
**2 Claims. (Cl. 255—51)**



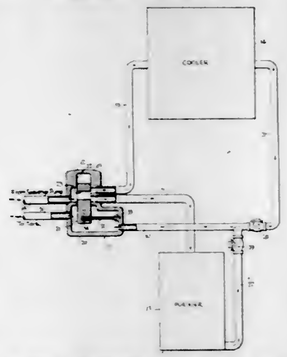
1. A mounting for rock drills and the like, comprising a cylindrical support member, a bearing rotatable on the support member, means on the bearing to support a rock drill, a rack extending along the side of the support member and interlockingly engaging the bearing to rotate therewith on the support member, collars affixed to the rack rotatable on the support member to enable the rack to rotate about the support member, and a pinion in the bearing in engagement with the rack for moving the bearing axially of the support member.

2,389,554
**SLIPPER**
Ernest Schwartz, Bronx, N. Y., assignor to Miriam Schwartz, Bronx, N. Y.
Application February 26, 1945, Serial No. 579,730
3 Claims. (Cl. 36—2.5)



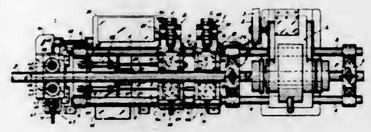
1. A slipper of the character set forth, comprising an upper and a sole stitched to the bottom edge thereof, said upper being formed of a single piece of flexible material with the opposite ends thereof secured in juxtaposed position at the front of the slipper, one of said ends having an outline which is a mirror image of the outline of the other of said ends, each of said outlines including elements which, in said juxtaposed position in which the corresponding elements thereof are secured, cooperate to simulate the head, ears and nose of a bunny at the front of the slipper.

2,389,555
**PURIFYING AND COOLING SYSTEM FOR LUBRICATING OILS**
Laurence Price Sharples, Ardmore, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 17, 1942, Serial No. 458,623
4 Claims. (Cl. 210—62)



1. In a fluid purification and cooling system, the combination comprising a cooler, means for impelling fluid through said cooler, a fluid purifier connected in parallel with said cooler in the line of flow of the fluid from said impelling means, and means responsive to the temperature of fluid passing through said system for treatment for controlling the relative flow of fluid through said cooler and purifier, respectively, said means increasing the ratio of fluid passed through said cooler to fluid passed through said purifier upon increase in the temperature thereof, means for recombining the fluid passed through said purifier with the fluid passed through said cooler, and a receiving member for receiving the recombined fluid, said parallel arrangement being such that no liquid from either the purifier or the cooler passes through the other of these two members.

2,389,556
**TURNING MACHINE**
Walter Siegerist, University City, Mo.
Application July 27, 1942, Serial No. 452,476
22 Claims. (Cl. 82—20)



1. A mechanism for feeding work through a cutting device at a uniform rate predetermined by the nature of the material in said work and the capacity of said cutting device, said mechanism comprising a reciprocable carriage operable in one direction of its reciprocating movement to feed said work to said cutting device and in the other direction of its reciprocating movement to move relative to said work, mechanically operated means for moving said carriage in the work feeding direction of its reciprocating movement, and fluid operated means for moving said carriage in the other direction of its reciprocating movement, the force exerted by said fluid operated means on said carriage in said other direction of its reciprocating movement being uniform in all positions of said carriage, whereby said fluid operated means renders uniform the rate of travel imparted to said carriage by said mechanically operated means.

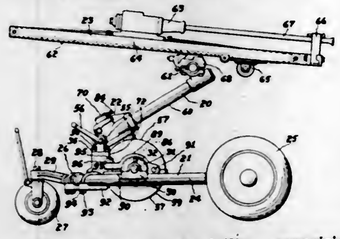
2,389,557
**GEARING**
Johan Ulrich Signer, West Hartlepool, and Louis Mortimer Douglas, Wallsend-on-Tyne, England, assignors to Richardsons, Westgarth & Company Limited, Wallsend-on-Tyne, England, and The Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England
Application August 25, 1943, Serial No. 499,906
In Great Britain August 19, 1942
7 Claims. (Cl. 74—410)



1. Double reduction gearing comprising a primary driving shaft carrying two single helical primary driving pinions with their teeth oppositely inclined, two separate shafts each carrying only a single primary wheel engaged by one of the respective single helical driving pinions, a secondary driving pinion rigid with each of said primary wheels, and a common secondary shaft carrying a secondary wheel engaging both of said secondary pinions, whereby self adjustment and axial equilibrium of said gearing is provided, said secondary driving pinions and common secondary wheel being arranged between the helical primary wheels with the primary driving shaft out of line with the secondary wheel.



2,389,558
**MOUNTING FOR ROCK DRILLS**
Fred M. Slater, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application September 13, 1944, Serial No. 553,811
2 Claims. (Cl. 255—51)



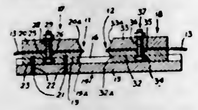
1. A mounting for rock drills, comprising a frame, a horizontal shaft rotatable on the frame, gear means on the frame and the shaft cooperating with each other for rotating the shaft, a boom to serve as a support for a rock drill and having a hub, a gear box on and rotatable with the shaft, a pivot affixed to the gear box perpendicularly to the shaft and extending loosely through the hub, a seating surface in the gear for an end of the hub, a gear on the hub, a worm in the gear box in engagement with the gear for swinging the boom about the axis of the pivot, and locking means for locking the hub to the pivot.

2,389,559
**ELECTRODE HOLDER**
Frank R. Smith, Los Angeles, Calif.
Application March 10, 1944, Serial No. 525,874
11 Claims. (Cl. 219—8)



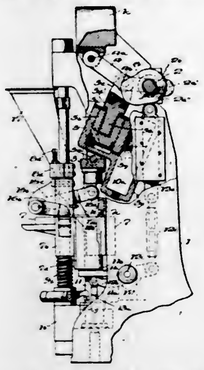
1. In an electrode holder, a base member and a pivoted lever member, the members having hook and pin pivotal connecting means, the hook carrying member being slidable lengthwise to effect engagement or disengagement of the hook with the pin, the members having welding rod gripping jaws, and means to insure engagement of said pivotal connecting means between said members.

2,389,560
**APPARATUS FOR MAKING THERMOPLASTIC JOINTS**
Robert N. Steffens, New York, N. Y.
Original application March 26, 1942, Serial No. 436,256. Divided and this application November 2, 1943, Serial No. 508,725
3 Claims. (Cl. 154—42)



1. Apparatus for joining together end portions of flat thermoplastic strips, comprising a pair of clamps, each clamp having means to grip an end portion of sheet thermoplastic material, and means to support said clamps for relative movement to bring one end portion into edge to edge contact with the other end portion, each of said clamps comprising a pair of jaws having parallel flat clamping surfaces adapted to contact opposite surfaces of one of said strips, the inner ends of the jaws of each clamp having shearing means at said clamping surfaces and being relieved from said clamping surfaces, beyond said shearing means to provide space to receive surplus sheared material.

2,389,561
**MOLDING PRESS**
Francis J. Stokes, Jr., Philadelphia, and Lawrence H. Bailey, Cheltenham, Pa., assignors to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application June 15, 1942, Serial No. 447,110
12 Claims. (Cl. 18—5)

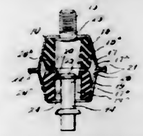


8. A molding press comprising, in combination, a die having a mold cavity open at the top and bottom, means for guiding said die for vertical reciprocation, a lower punch positioned to close the lower end of said cavity and being mounted for vertical reciprocation into said cavity to eject a molded article therefrom, means for normally biasing said die upwardly against a stop to normally maintain said die in a predetermined position with respect to said lower punch, an upper punch, means for mounting and guiding said upper punch for vertical reciprocating movement to enter the upper end of said cavity and to be withdrawn therefrom to permit filling of said cavity, driving means for reciprocating said upper punch through a molding cycle, driving means for moving said die towards said lower punch against said biasing means at a lower speed than the speed of movement of the upper punch on its downward movement, means for timing the operation of the second driving means with respect to the first driving means whereby the cycle of movement of said die begins substantially at the instant when the upper punch enters the die and ends substantially at the instant when the upper punch leaves the die.

2,389,562
**FLEXIBLE MOUNTING DEVICE**
Harold A. Storch, Fairview Village, Ohio, assignor to Harris Products Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1943, Serial No. 502,090
3 Claims. (Cl. 248—358)

1. A flexible mounting device, comprising a housing formed by a pair of cup members having

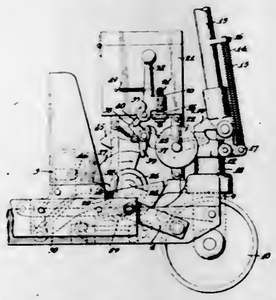
their open ends connected together, means for connecting the housing with one of a pair of members to be connected, a pair of rubber bushings having substantially coaxially extending openings and disposed in said housing so that their adjacent ends are spaced from the side walls of the housing, and a connecting member adapted for connection with the other member of said



pair and having on its inner end a washer which is anchored between said adjacent ends of the bushings, said washer lying wholly inwardly of the outer peripheral faces of the bushings and having a shoulder portion engaging in the opening of one of the bushings, said cup members being tapered so as to subject said bushings to compression against said washer.

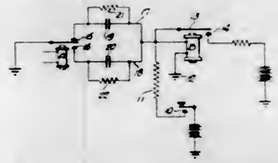
---

**2,389,563**
**LIFT TRUCK**
**William Stuebing, Jr., Cincinnati, Ohio**
**Application July 26, 1943, Serial No. 496,142**
**7 Claims. (Cl. 254—2)**



6. In a lift truck of the character wherein a lifting frame is swingably mounted on a chassis whereby the lifting frame swings from a lower position to an elevated position upon a plurality of similar links one end of each of which is pivoted to the chassis and the other end of each of which is pivoted to the lifting frame and wherein the lifting frame is held in the elevated position by a releasable latch means, means to elevate the lifting frame comprising, a pair of elongated hook links mounted upon the opposite sides of the lifting frame each of said hook links being attached at one end to the lifting frame and having at its other end a hook portion which is open downwardly, a gear casing positioned between said hook portions and mounted on said chassis, a pair of crank arms associated respectively with the two hook links, a crank shaft rotatably mounted on said gear casing and having said crank arms rigidly mounted on its ends, a motor mounted on said gear casing and geared to said crank shaft through a speed reduction gear train in said gear casing, and motor control means to operate said motor thereby to cause the crank arms to engage the hook links and elevate the lifting frame.

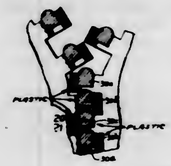
**2,389,564**
**ELECTRICAL SYSTEM**
**David Elias Sunstein, Elkins Park, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania**
**Application October 28, 1944, Serial No. 560,876**
**11 Claims. (Cl. 175—320)**



1. In combination, an electrical device, a holding circuit for said device including a contact which is operative in response to energization of said device to close said holding circuit, and to open said holding circuit in response to deenergization of said device, a path including said device in series with a condenser and a switch, but excluding said contact, and means in shunt to said condenser for discharging the same, said path being closed upon closure of said switch.

---

**2,389,565**
**NONMETALLIC SEPARABLE FASTENER AND METHOD OF MAKING THE SAME**
**Fred R. Taberiet, Forest Hills, N. Y.**
**Application November 5, 1942, Serial No. 464,582**
**4 Claims. (Cl. 24—205)**



1. A nonmetallic separable fastener, comprising a pair of strips of textile fabric, each having spaced cylindrical loop portions and overlapping portions permanently secured to each other, and each loop portion having a projection thereon, all impregnated with plastic material substantially flush with the surfaces of said fabric, the loop portions of one strip entering the spaces between the loop portions of the other strip, and the projection of one loop portion of one strip engaging the loop bore of the next adjacent loop portion of the other strip.

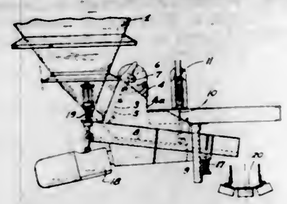
---

**2,389,566**
**SOLIDS FEEDER**
**Parke E. Thomas, Cleveland, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey**
**Application June 16, 1944, Serial No. 540,735**
**4 Claims. (Cl. 198—53)**

1. The combination of a hopper having a lateral discharge opening, a gate for said opening, a housing consisting of walls attached to the hopper about said opening, having a top opening thru which said gate may be moved and having an open bottom and an open lower end, said housing walls defining a chamber extending downwardly from said hopper at an acute angle to the horizontal, a gate for said open end of the



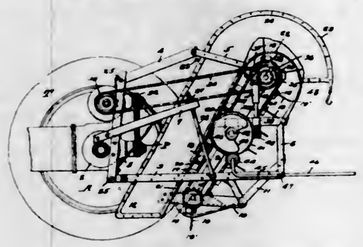
housing and a vibrating pan comprising a bottom wall positioned adjacent to the open bottom of



the housing and extending beyond its lower end, and side walls extending upwardly from the bottom wall outside of said housing.

---

**2,389,567**
**PEANUT HARVESTER**
**John T. Thornton, Parrott, Ga.**
**Application May 28, 1945, Serial No. 596,183**
**3 Claims. (Cl. 56—346)**

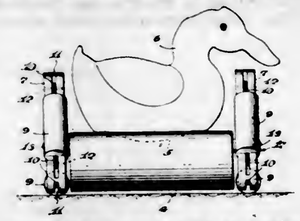


1. In a peanut harvester the combination with a movably supported structure and means for propelling the structure over the surface of the ground, of an inclined endless carrier mounted in said structure, pickup fingers extending from the carrier, a guide formed of flexible sheet material anchored at its ends back of the upper and lower portions respectively of the carrier and having intermediate portions extending over and under the carrier and upwardly along the advancing portion of the carrier, means for actuating the carrier to move the advancing portion upwardly to elevate material along the guide, said guide having slots extending lengthwise thereof for the reception of the fingers and said guide constituting means for supporting material engaged by the fingers, said guide being of such a thickness as to vibrate naturally and separate dirt from the elevated material while the machine is in motion.

---

**2,389,568**
**FIGURED WHEELED TOY**
**Fredie Townsley, Toronto, Ontario, Canada, assignor to Holgate Brothers Company, Kane, Pa., a corporation**
**Application September 11, 1944, Serial No. 553,543**
**10 Claims. (Cl. 46—106)**

1. A wheeled toy comprising a longitudinal body and transverse end structures, the body being pivotally supported by the end structures for rocking movement about an axis arranged lengthwise of the body, and having its center of gravity positioned below said axis, each end structure being of substantially polygonal shape in elevation and provided with supporting wheels journalled in each edge portion thereof, the axes



of the wheels being positioned at angles to one another and arranged in a plane perpendicular to the axis about which the body rocks.

---

**2,389,569**
**ELECTRODE HOLDER**
**Henry J. Wagner, Jackson, Mo.**
**Application February 16, 1944, Serial No. 522,637**
**3 Claims. (Cl. 219—8)**



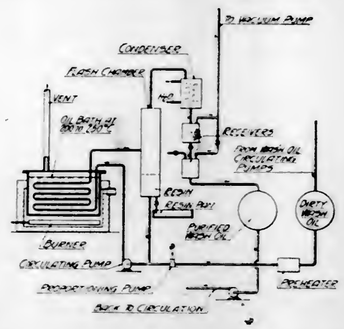
1. An electrode holder comprising upper and lower tong members, said upper tong member including a solid jaw having an integral shank projecting from the inner end thereof, said shank having a forward portion reduced in width to provide a depending ear and a rearwardly and upwardly extending rear portion, an insulating handle fitted and secured on said rear portion of the shank so as to completely enclose the latter, said lower tong member including a jaw having a shank integral with and projecting from its inner end, the shank of the lower tong member projecting inwardly beyond the shank of the upper tong member and including a narrow outer portion provided with a longitudinal recess in the upper side thereof receiving the ear of the upper tong member and a wider inner portion formed at its outer part with a wide recess in the top thereof and at its inner part with an axial socket, a pivot extending through the ear and the shank of the lower tong member to pivotally connect the tong members, a helical compression spring interposed between the shanks inwardly of the pivot for the tong members to normally yieldingly urge the jaw of the upper tong member into engagement with the jaw of the lower tong member, said spring being seated at one end in the insulating handle and at the other end in said wide recess, an adjustable bushing threaded through the shank of the lower tong member and receiving the lower end of said spring for adjusting the tension of the latter, and means to secure an end of a conductor in said socket of the lower tong member.

---

**2,389,570**
**PRODUCTION OF RESINS FROM COKE OVEN GAS**
**Joseph H. Wells and Philip J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey**
**Application October 27, 1943, Serial No. 507,886**
**2 Claims. (Cl. 196—8)**

1. A method of treating used coke-oven gas petroleum wash oil in order to produce a more

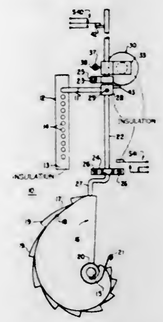
readily removable resin, comprising distilling it at temperatures of from 200° to 250° C. under a vacuum at pressures up to 5 cm. mercury absolute in the substantial absence of steam caus-




ing it and any light oil it contains to be distilled off while leaving a residue of liquid resin comprising the compounds it contains normally forming muck in the wash oil system.

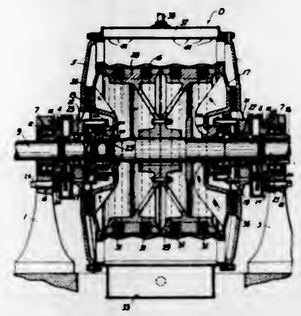
---

**2,389,571**
**SWITCHING APPARATUS**
**Bernard D. Willis, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware**
**Application October 1, 1941, Serial No. 413,176**
**7 Claims. (Cl. 177—353)**



4. Switching mechanism comprising a cam having a normal position and carrying a plurality of spaced-apart teeth disposed about the cam surface thereof, a follower adapted to ride upon the cam surface of said cam, motor means adapted to advance said cam continuously away from its normal position, means for selectively controlling said motor means, means governed when the advancement of said cam away from its normal position by said motor means is arrested for returning said cam toward its normal position to the nearest one of a plurality of spaced-apart centered positions, said one centered position being established when said follower is engaged by the one of the teeth disposed about the cam surface of said cam which was last to ride under said cam, and contact selecting means operatively connected to said follower.

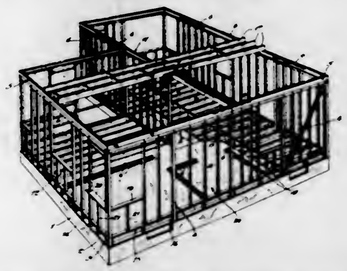
**2,389,572**
**ENGINE LOADING AND TESTING SYSTEM**
**Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee**
**Application August 11, 1943, Serial No. 498,155**
**5 Claims. (Cl. 73—134)**



1. A combined dynamometer and slip coupling comprising a driving shaft, a driven shaft, one of said shafts carrying a field member and the other an inductor member electro-magnetically cooperating with the field member, said inductor member surrounding said field member, a casing surrounding said inductor member and movable relatively thereto, means for circulating a cooling medium through said casing, and around the inductor member and means for registering torque due to slip between the inductor and field members comprising an operable clutch connecting the field member and the casing and measuring means associated with said casing for determining force due to moments applied to the casing.

---

**2,389,573**
**BUILDING STRUCTURE**
**Bruno E. Balduf, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois**
**Application October 27, 1941, Serial No. 416,641**
**8 Claims. (Cl. 20—4)**



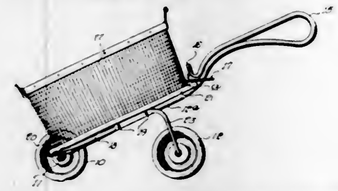
1. In combination with a plurality of studs as set up to form a rigid building frame having plates secured across the ends of said studs, said studs and plates having aligned angular saw kerfs therein, a right-angle utility strip of metal having one flange in said saw kerfs and the other flange against the face of said frame and rigidly secured to said studs and plates, said utility strip being sufficiently thin and malleable to enable ordinary building nails to be easily driven



therethrough and sufficiently thin to enable facing material to be secured to said studs over said strip without appreciable distortion of said facing material thereby.

---

**2,389,574**
**UTILITY CART**
**Edward M. Hulquist, Dallas, Tex., assignor to Dean Field, Dallas, Tex.**
**Application September 30, 1944, Serial No. 556,553**
**4 Claims. (Cl. 280—50)**



1. A utility cart including a frame comprising an axle having wheels thereon, a central member connected at one end to said axle intermediate its ends and extending rearwardly and bent upon itself to define a loop handle and terminating in an upright projection at a point spaced forwardly of said handle, brace members supporting a third wheel below said central member and rearwardly of said first wheels and having hooked forward ends affixed to said axle on each side of said central member, a parcel container having a base retained at one end by the hooked ends of said braces and a pivoted, gravity controlled latch suspended from said upright projection to overlie the opposite end of said container base to retain the same on said cart.

---

**2,389,575**
**IMMOBILE N-SUBSTITUTED NAPHTHYLAMINE DYE INTERMEDIATES**
**James Emory Kirby and David W. Woodward, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application July 8, 1942, Serial No. 450,146**
**11 Claims. (Cl. 95—6)**

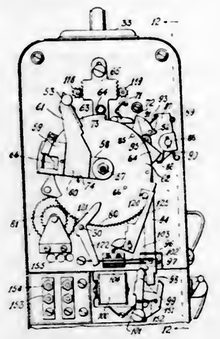
1. A color yielding element for recording photographic images comprising a base having imposed thereon a colloid layer containing a basic N-substituted amino naphthalene dye intermediate containing as the sole coupling-directive group the said substituted amino group wherein the amino nitrogen atom thereof is connected through an acyclic methylene group by means of a bivalent radical of at least two carbon atoms taken from the class consisting of hydrocarbon radicals and ether interrupted hydrocarbon radicals to the nitrogen atom of an acid amide.

---

**2,389,576**
**ESTERS OF DIOLEFINIC PHOSPHONIC ACIDS**
**Gennady M. Kosolapoff, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware**
**No Drawing. Application August 16, 1943, Serial No. 498,865**
**9 Claims. (Cl. 260—461)**

1. 1,3-butadiene-1-phosphonic acid esters of 1 to 5 carbon atom alcohols.

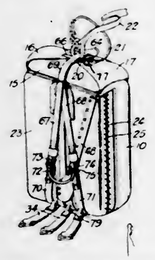
**2,389,577**
**METHOD OF ROASTING COFFEE**
**Richard F. O'Toole, Scarsdale, and Alexander C. Parlini, Freeport, N. Y.**
**Original application August 3, 1940, Serial No. 350,460. Divided and this application April 10, 1942, Serial No. 438,426**
**10 Claims. (Cl. 99—68)**



1. In a method of roasting coffee in a roasting chamber, the steps which consist in generating and supplying heat to said chamber for a predetermined time period, to bring the temperature therein to a certain value, admitting coffee thereto, then positively and finally cutting off the supply of heat to said chamber while substantially preventing the escape of heat therefrom, to maintain said temperature value therein, and then conducting the balance of the roasting operation at the existing temperature for another predetermined supplementary time period.

---

**2,389,578**
**PARACHUTE PACK**
**John Raymond Cuthbert Quilter, Woking, England**
**Application June 13, 1944, Serial No. 540,031**
**In Great Britain June 8, 1943**
**6 Claims. (Cl. 244—148)**

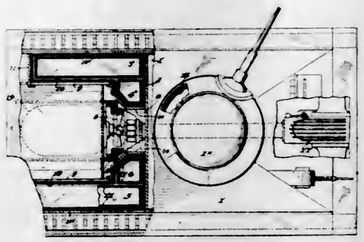


1. A parachute pack comprising a plurality of parachutes, a container having two compartments, one of said compartments being adapted to contain a main parachute and the other of said compartments being adapted to contain a retarder parachute, means for closing each of said compartments, a flexible member adapted to be tensioned by the fall of said pack from an aircraft, said flexible member acting under ten-

sion to release the closing means of said other compartment for escape of said retarder parachute, flexible means extending from said main parachute for attachment of the load, and means operated by the load tension on said flexible means for releasing the closing means of said one compartment, said main parachute being extracted from said one compartment by the load tension while said container is supported by said retarder parachute.

---

2,389,579
**INSULATED MILITARY TANK AND OTHER VEHICLES**
**Julian Louis Reynolds, Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware**
**Application April 14, 1943, Serial No. 482,993**
**2 Claims. (Cl. 180—1)**

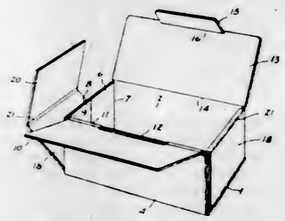


1. An armored motor vehicle having a fighting compartment and a combined engine and gasoline tank compartment, the said compartments being separated by a metal bulkhead presenting metallic surface areas, a metal shroud encircling the engine, two sets of walls likewise presenting metallic surface areas, each set of walls complementing the shroud and the bulkhead to define a gasoline tank compartment adjacent the engine compartment, armored plates including a deck plate covering the said fighting compartment and said engine and gasoline tank compartments, sheets of foil, each having a surface adapted for adherence to a metallic facing and also having highly radiant reflecting surfaces, said sheets of foil being secured to the engine shroud and to the remaining walls which define the gasoline tank compartments, others of said foil sheets being secured to the said armored plates, said foil sheets insulating the fighting, engine and gasoline tank compartments, also insulating the fighting compartment from heat rays from the engine compartment, part of said foil sheets insulating the gasoline tank compartments from the heat rays of the engine.

---

2,389,580
**KNOCKDOWN BOX**
**Herbert C. Skell, Baldwin, N. Y., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio**
**Application August 4, 1943, Serial No. 497,328**
**2 Claims. (Cl. 229—23)**

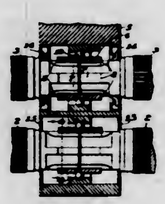
1. A knock down box composed of two pieces of relatively stiff paperboard, one of said pieces comprising a bottom panel, front and back wall panels having their bottom edges hingedly connected by fold lines to opposite side edges of the bottom panel, an inturned flap hingedly connected by a fold line to the top edge of the front wall panel, the latter fold line having a slot intermediate the ends thereof, a lid panel hingedly connected by a fold line to the top edge of said back panel and a tongue of a width to enter said slot hingedly connected to the free edge of said lid panel, said front and back panels having hinged end flaps adapted to be positioned in a plane at right angles to said front and back panels, the other of said pieces having a central panel corresponding to the bottom wall panel of the first piece and adapted to overlie the same, end wall forming



panels hingedly connected at their bottom edges by fold lines to the opposite ends of said central panel and inturned flaps hingedly connected to the top edges of said end wall panels, said inturned flaps extending substantially the full depth of the box with the front wall flap engaging the interior faces of said end wall flaps, said end flaps being interposed between the end wall panels and flaps with their top edges contiguous to the interior of the top edge folds of the end walls and their bottom edges contiguous to said central panel.

---

2,389,581
**TEXTILE DRAWING MECHANISM**
**Roderic D. Tarr, Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine**
**Application November 22, 1941, Serial No. 420,069**
**6 Claims. (Cl. 19—130)**



5. In a textile drawing mechanism of the character described, the combination of a bottom drawing roll comprising a series of drafting roll sections, roll stands supporting said sections end to end at intervals spaced lengthwise of the roll sleeves telescoped on and keyed to the adjoining end portions of said roll sections at each stand, said stands having bearing sockets, bearings located in said sockets and rotatably supporting the respective sleeves at points located approximately in planes at right angles to said sleeves at the telescoped end portions of the roll sections connected thereby, each of said sleeves having limited lateral clearance with at least one of the end portions of the roll sections which it connects, said clearance serving to accommodate minor departures of the sections from true axial alignment with each other but maintaining a positive driving connection from one section to the other, and said bearings holding said sleeves against substantial endwise movement relatively to the roll stands.

---



2,389,582
**COMPOUNDS OF 2-SULPHANILAMIDO-5-CARBOXYTHIAZOLE WITH VASOCONSTRICTORS AND THEIR SOLUTIONS**
**Philip S. Winnek and Earl R. Bockstahler, Indianapolis, Ind., assignors to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware**
**No Drawing. Application August 2, 1943, Serial No. 497,044**
**13 Claims. (Cl. 167—65)**

1. An aqueous solution containing a 2-sulphanilamido-5-carboxythiazole salt of a basic vasoconstrictor and an alkali metal salt of 2-sulphanilamido-5-carboxythiazole.

5. A 2-sulphanilamido-5-carboxythiazole salt of a basic vasoconstrictor.

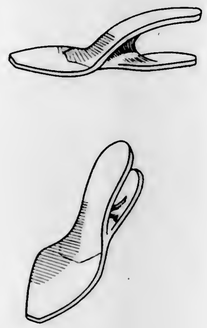
2,389,583
**THERMAL TREATMENT**
**Robert Thomas Wood and Marvin E. Gantz, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application December 16, 1944, Serial No. 568,561**
**4 Claims. (Cl. 148—21.3)**

1. The improved method of heat treating castings, made of magnesium base alloys of the class containing solid solution element in amount which will, upon thermal treatment, form with the magnesium a solid solution unstable at some temperature between the temperature of said thermal treatment and room temperature and which alloys when so heated exhibit a tendency to form large grains, which consists in heating said casting to a temperature at which solid solution is formed between the magnesium and the solid solution forming element for a time sufficient to cause only a portion of the desired solid solution to form, cooling the casting, and repeating said cycle of heating and cooling at least twice, the temperature to which said casting is cooled between successive heating steps being a temperature at which the solid solution formed during the previous heating step is unstable whereby precipitation will result, the time of any of said successive heating steps being such that that step used alone would place in solid solution only a portion of the desired amount of solid solution forming element.

# DESIGNS

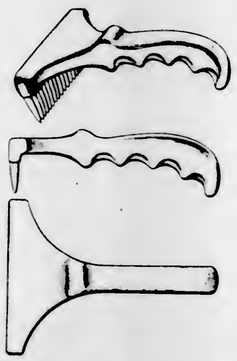
NOVEMBER 20, 1945

142,929
**DESIGN FOR A COMBINED SHOE SOLE AND HEEL**
Edna M. Acosta, Los Angeles, Calif.
Application May 23, 1945, Serial No. 119,686
Term of patent 7 years
(Cl. D7—5)



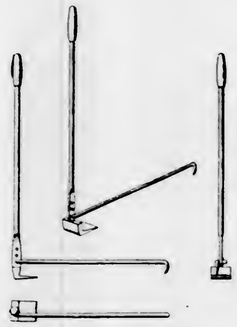
The ornamental design for a combined shoe sole and heel, substantially as shown.

142,930
**DESIGN FOR A HAIR COMB**
Daniel A. Adler, Glendale, Calif.
Application June 30, 1945, Serial No. 120,452
Term of patent 14 years
(Cl. D12—4)



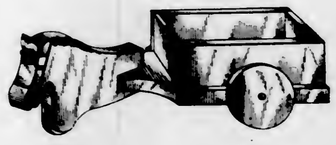
The ornamental design for a hair comb, substantially as shown.

142,931
**DESIGN FOR A TIRE TOOL**
Harry J. Bailey, Chicago, Ill., assignor of one-half to Charles C. Cirese, Chicago, Ill.
Application June 25, 1945, Serial No. 120,334
Term of patent 7 years
(Cl. D54—13)



The ornamental design for a tire tool, as shown.

142,932
**DESIGN FOR A TOY**
Lonnie G. Baker, Loraine, Tex., assignor of fifty per cent to Roy Bridgewater, Sweetwater, Tex.
Application April 23, 1945, Serial No. 119,137
Term of patent 7 years
(Cl. D34—15)

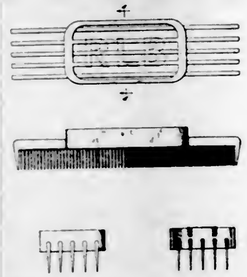


The ornamental design for a toy, as shown.



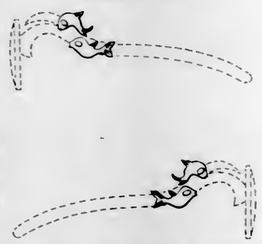


142,933
**DESIGN FOR A HAIRDRESSING APPLIANCE**
Raymond L. Barker, Chicago, Ill.
Application August 4, 1945, Serial No. 121,224
Term of patent 7 years
(Cl. D86—8)



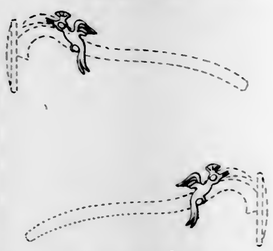
The ornamental design for a hairdressing appliance, as shown.

142,934
**DESIGN FOR A SPECTACLE FRAME**
Altina Barrett and Eric Barrett, Hollywood, Calif.
Application February 26, 1945, Serial No. 118,138
Term of patent 14 years
(Cl. D57—1)



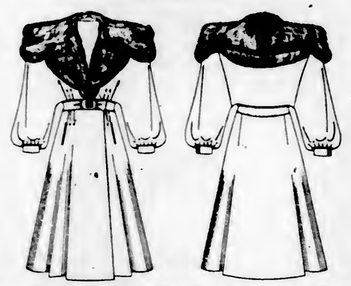
The ornamental design for a spectacle frame, substantially as shown and described.

142,935
**DESIGN FOR A SPECTACLE FRAME**
Altina Barrett and Eric Barrett, Hollywood, Calif.
Application February 26, 1945, Serial No. 118,139
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle frame, substantially as shown and described.

142,936
**DESIGN FOR A COAT**
David Bellsey, New York, N. Y.
Application August 24, 1945, Serial No. 121,603
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

142,937
**DESIGN FOR A COAT**
David Bellsey, New York, N. Y.
Application August 24, 1945, Serial No. 121,604
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a coat, substantially as shown.

142,938
**DESIGN FOR A COAT**
David Bellsey, New York, N. Y.
Application August 24, 1945, Serial No. 121,605
Term of patent 3½ years
(Cl. D3—4)



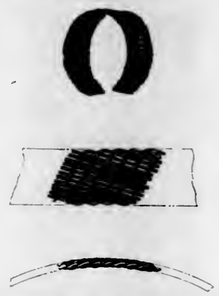
The ornamental design for a coat, substantially as shown.

142,939
**DESIGN FOR A BRACELET**
Hugh S. Benbow, Long Beach, Calif.
Application July 12, 1945, Serial No. 120,678
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet, as shown.

142,940
**DESIGN FOR A BRACELET**
Hugh S. Benbow, Long Beach, Calif.
Application July 12, 1945, Serial No. 120,679
Term of patent 7 years
(Cl. D45—4)



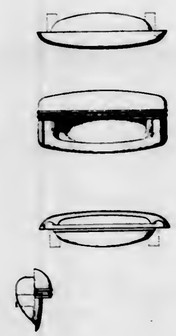
The ornamental design for a bracelet, as shown.

142,941
**DESIGN FOR A BRACELET**
Hugh S. Benbow, Long Beach, Calif.
Application July 12, 1945, Serial No. 120,677
Term of patent 7 years
(Cl. D45—4)



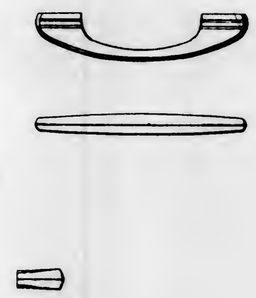
The ornamental design for a bracelet, as shown.

142,942
**DESIGN FOR A DRAWER PULL**
Earl M. Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application August 8, 1945, Serial No. 121,312
Term of patent 7 years
(Cl. D10—8)



The ornamental design for a drawer pull, substantially as shown and described.

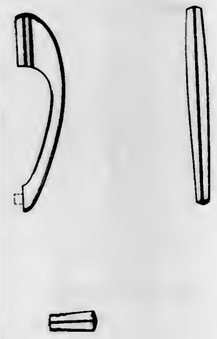
142,943
**DESIGN FOR A DRAWER PULL**
Earl M. Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application August 8, 1945, Serial No. 121,313
Term of patent 7 years
(Cl. D10—8)



The ornamental design for a drawer pull, substantially as shown.

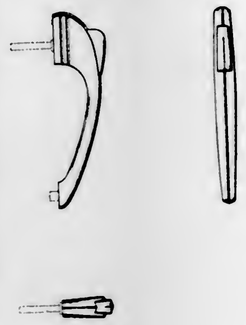


142,944
**DESIGN FOR A DOOR PULL**
Earl M. Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application August 8, 1945, Serial No. 121,314
Term of patent 7 years
(Cl. D10—8)



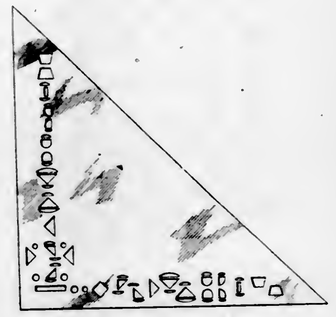
The ornamental design for a door pull, substantially as shown and described.

142,945
**DESIGN FOR A CATCH HANDLE**
Earl M. Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application August 8, 1945, Serial No. 121,315
Term of patent 7 years
(Cl. D10—8)



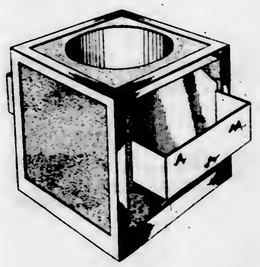
The ornamental design for a catch handle, substantially as shown and described.

142,946
**DESIGN FOR A DRAFTSMAN'S WELDING SYMBOL TEMPLATE**
Richard John Burleigh, Vallejo, Calif.
Application April 9, 1945, Serial No. 118,910
Term of patent 7 years
(Cl. D52—1)



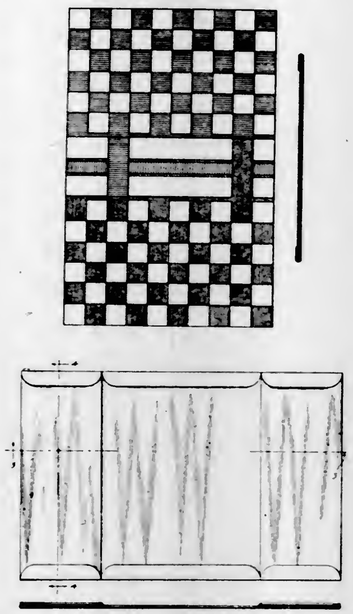
The ornamental design for a draftsman's welding symbol template, as shown.

142,947
**DESIGN FOR A COMBINED BOTTLE HOLDER AND WARMER**
Ervin J. Cain, Milwaukee, Wis.
Application February 1, 1945, Serial No. 117,711
Term of patent 14 years
(Cl. D81—10)



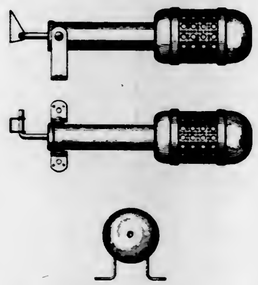
The ornamental design for a combined bottle holder and warmer, as shown and described.

142,948
**DESIGN FOR A GAME BOARD OR THE LIKE**
Adrian D. Clem, Sioux City, Iowa
Application June 22, 1945, Serial No. 120,241
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board or the like, as shown.

142,949
**DESIGN FOR A COMBINED DOOR CHECK AND DEODORANT DIFFUSER**
Israel Dobkin, Pittsburgh, Pa.
Application June 19, 1945, Serial No. 120,203
Term of patent 14 years
(Cl. D16—2)



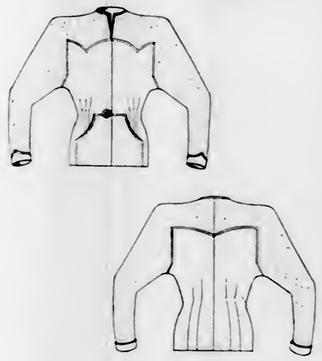
The ornamental design for a combined door check and deodorant diffuser, as shown.

142,950
**DESIGN FOR A SAFETY RAZOR**
Vincent Dudas, Cleveland, Ohio, assignor to A. Varga
Application June 26, 1945, Serial No. 120,352
Term of patent 14 years
(Cl. D22—3)



The ornamental design for a safety razor, substantially as shown.

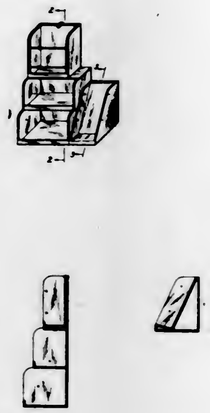
142,951
**DESIGN FOR A JACKET**
Nathan Finkelstein, New York, N. Y.
Application August 14, 1945, Serial No. 121,425
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

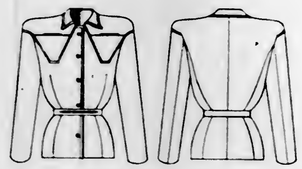


142,952
**DESIGN FOR A MERCHANDISE RACK OR THE LIKE**
Jack L. Ford, Los Angeles, Calif.
Application December 18, 1944, Serial No. 116,993
Term of patent 14 years
(Cl. D80—9)



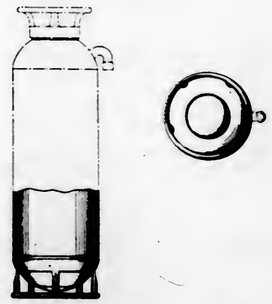
The ornamental design for a merchandise rack or the like, substantially as shown.

142,953
**DESIGN FOR A JACKET**
Zelma Golden, New York, N. Y.
Application August 21, 1945, Serial No. 121,527
Term of patent 3½ years
(Cl. D3—4)



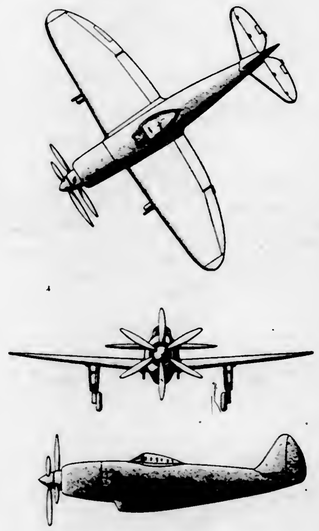
The ornamental design for a jacket, substantially as shown.

142,954
**DESIGN FOR A FIRE EXTINGUISHER**
Edward H. Hansen, Elkhart, Ind., assignor to Elkhart Brass Manufacturing Company, Elkhart, Ind., a corporation of Indiana
Application October 25, 1944, Serial No. 115,971
Term of patent 14 years
(Cl. D16—2)



The ornamental design for a fire extinguisher, substantially as shown and described.

142,955
**DESIGN FOR AN AIRPLANE**
Alexander Kartveli, Huntington Station, and Robert A. Kaiser, Bayside, Long Island, N. Y., assignors to Republic Aviation Corporation, a corporation of Delaware
Application February 1, 1944, Serial No. 112,406
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, substantially as shown.

142,956
**DESIGN FOR A BRACELET**
George J. Lederer, Providence, R. I., assignor to Providence Stock Company, Providence, R. I., a corporation of Rhode Island
Application June 18, 1945, Serial No. 120,187
Term of patent 3½ years
(Cl. D45—4)



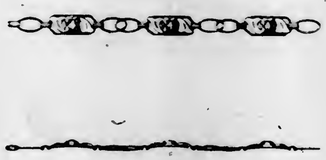
The ornamental design for a bracelet, as shown.

142,957
**DESIGN FOR A BRACELET**
George J. Lederer, Providence, R. I., assignor to Providence Stock Company, Providence, R. I., a corporation of Rhode Island
Application June 18, 1945, Serial No. 120,188
Term of patent 3½ years
(Cl. D45—4)



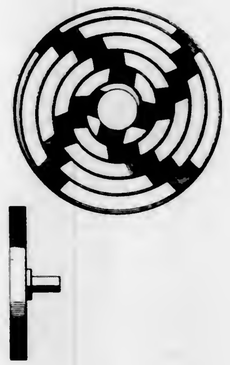
The ornamental design for a bracelet, as shown.

142,958
**DESIGN FOR A BRACELET**
George J. Lederer, Providence, R. I., assignor to Providence Stock Company, Providence, R. I., a corporation of Rhode Island
Application June 18, 1945, Serial No. 120,190
Term of patent 3½ years
(Cl. D45—4)



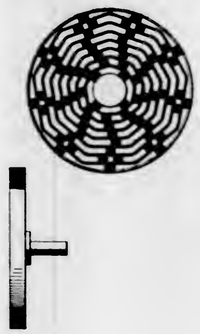
The ornamental design for a bracelet, as shown.

142,959
**DESIGN FOR A FAN PROPELLER**
Bert Lee, Sacramento, Calif., assignor to Bert Lee Laboratories, Inc., Beverly Hills, Calif., a corporation of California
Application August 6, 1945, Serial No. 121,239
Term of patent 14 years
(Cl. D26—7)



The ornamental design for a fan propeller, as shown.

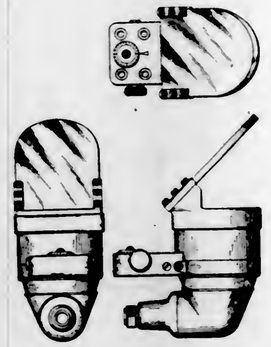
142,960
**DESIGN FOR A FAN PROPELLER**
Bert Lee, Sacramento, Calif., assignor to Bert Lee Laboratories, Inc., Beverly Hills, Calif., a corporation of California
Application August 6, 1945, Serial No. 121,240
Term of patent 14 years
(Cl. D26—7)



The ornamental design for a fan propeller, as shown.

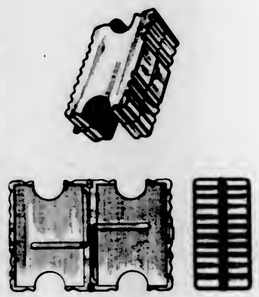


142,961
**DESIGN FOR A GUN SIGHT**
Robert M. Lyan, Pasadena, Calif.
Application November 3, 1942, Serial No. 111,578
Term of patent 14 years
(Cl. D30—1)



The ornamental design for a gun sight, as shown.

142,962
**DESIGN FOR A PLAYING CARD HOLDER OR SIMILAR ARTICLE**
Ruth Miller, New York, N. Y.
Application February 6, 1945, Serial No. 117,784
Term of patent 3½ years
(Cl. D34—13)



The ornamental design for a playing card holder or similar article, substantially as shown.

142,963
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application July 11, 1945, Serial No. 120,624
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an earring, substantially as shown.

142,964
**DESIGN FOR A BELL TOY**
Eunice New, formerly Dennice New, South Jacksonville, Fla.
Application July 24, 1945, Serial No. 120,921
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a bell toy, as shown.

142,965
**DESIGN FOR A CAP FOR LIPSTICK HOLDER OR THE LIKE**
Emile Norman, El Monte, Calif., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application January 29, 1945, Serial No. 117,649
Term of patent 14 years
(Cl. D86—10)



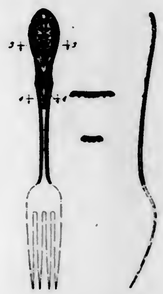
The ornamental design for a cap for a lipstick holder or the like, as shown.

142,966
**DESIGN FOR A FIGURINE OR SIMILAR ARTICLE**
Frank Powell, Miami, Fla.
Application May 22, 1945, Serial No. 119,666
Term of patent 7 years
(Cl. D29—23)



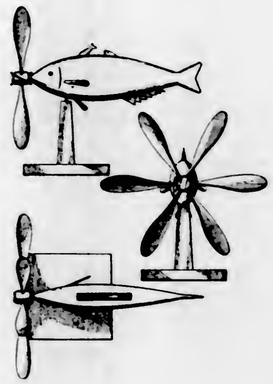
The ornamental design for a figurine or similar article, substantially as shown.

142,967
**DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE**
James Russell Price, Cranston, R. I., assignor to The Alvin Corporation, Providence, R. I., a corporation of New York
Application June 25, 1945, Serial No. 120,332
Term of patent 14 years
(Cl. D54—12)



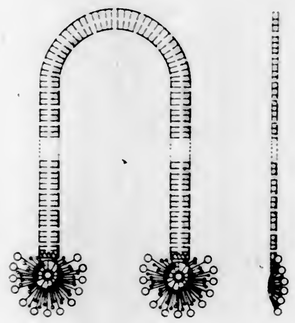
The ornamental design for a fork or other article of flatware, as shown.

142,968
**DESIGN FOR A WEATHER VANE**
Junius F. Royals, Godwin, N. C.
Application August 4, 1945, Serial No. 121,231
Term of patent 7 years
(Cl. D52—7)



The ornamental design for a weather vane, as shown.

142,969
**DESIGN FOR A NECKLACE OR SIMILAR ARTICLE**
John Rubel, New York, N. Y.
Application April 23, 1945, Serial No. 119,136
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or similar article, substantially as shown and described.

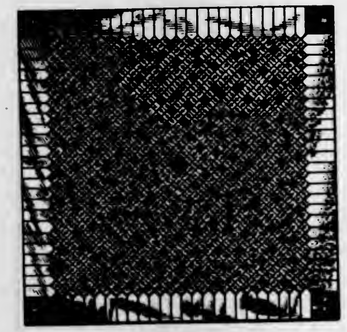


142,970
**DESIGN FOR A NECKLACE**
John Rubel, New York, N. Y.
Application April 30, 1945, Serial No. 119,307
Term of patent 7 years
(Cl. D45—16)



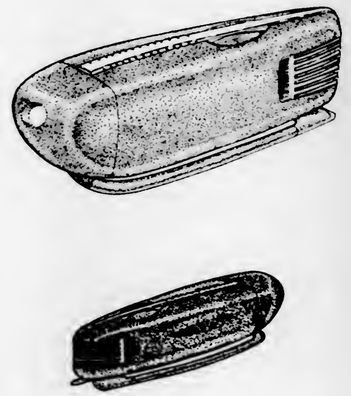
The ornamental design for a necklace, substantially as shown and described.

142,971
**DESIGN FOR A GAME BOARD**
Edward Schell, Machias, N. Y.
Application May 21, 1945, Serial No. 119,642
Term of patent 7 years
(Cl. D34—5)



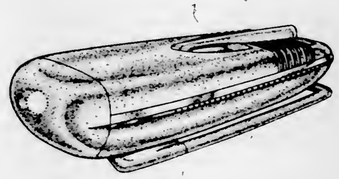
The ornamental design for a game board, as shown.

142,972
**DESIGN FOR A VACUUM CLEANER CASING**
George W. Walker, Pleasant Ridge, and Theodore Ornas, Birmingham, Mich., assignors to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application October 8, 1943, Serial No. 111,308
Term of patent 14 years
(Cl. D9—2)



The ornamental design for vacuum cleaner casing, substantially as shown and described.

142,973
**DESIGN FOR A VACUUM CLEANER CASING**
George W. Walker, Pleasant Ridge, and Kurt H. Wittke, Berkley, Mich., assignors to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application October 8, 1943, Serial No. 111,309
Term of patent 14 years
(Cl. D9—2)



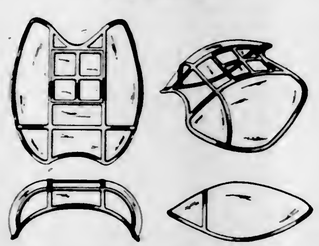
142,973—Continued





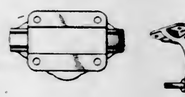
The ornamental design for a vacuum cleaner casing, substantially as shown and described.

142,974
**DESIGN FOR A COCKPIT CANOPY OR SIMILAR ARTICLE**
**Earl O. Weining, Wichita, Kans., assignor to Boeing Airplane Company, Wichita, Kans., a corporation of Delaware**
**Application March 23, 1945, Serial No. 118,652**
**Term of patent 14 years**
**(Cl. D71—1)**

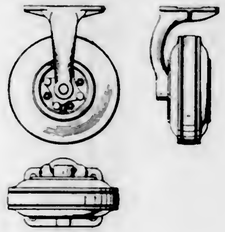


The ornamental design for a cockpit canopy or similar article, substantially as shown.

142,975
**DESIGN FOR A WHEEL WITH BRACKET MOUNTING**
**Theodore F. Young, Attica, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York**
**Application January 29, 1945, Serial No. 117,667**
**Term of patent 14 years**
**(Cl. D14—30)**

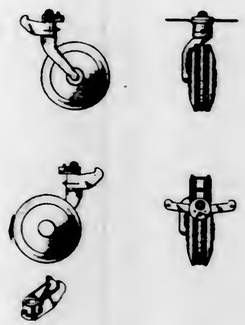


142,975—Continued



The ornamental design for a wheel with bracket mounting, substantially as shown.

142,976
**DESIGN FOR AN AIRPLANE TAIL WHEEL**
**Theodore F. Young, Attica, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York**
**Application February 24, 1945, Serial No. 118,113**
**Term of patent 14 years**
**(Cl. D14—30)**



The ornamental design for an airplane tail wheel, substantially as shown.



THE
# OFFICIAL GAZETTE
OF THE
# United States Patent Office

Vol. 580—No. 4 TUESDAY, NOVEMBER 27, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

## CONTENTS

| | Page |
|---|---|
| ISSUE OF NOVEMBER 27, 1945 | 501 |
| DISCLAIMERS | 501 |
| PRINTED COPIES OF PATENTS | 501 |
| DRAWINGS | 501 |
| PHOTOSTAT COPIES | 501 |
| ADVERSE DECISIONS IN INTERFERENCE | 501 |
| COMMUNICATIONS TO THE PATENT OFFICE | 501 |
| PRINTED COPIES OF TRADE-MARKS | 501 |
| CROSS REFERENCES IN CASES RELATING TO SAME SUBJECT | 501 |
| BRIEFS IN APPEALED CASES | 501 |
| APPLICATIONS UNDER EXAMINATION | 502 |
| DECISIONS OF THE U. S. COURTS— | |
| In re Turner | 503 |
| In re Bentham | 505 |
| In re Cornell | 507 |
| REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE | 509 |
| NOTICE | 510 |
| BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS | 511 |
| TRADE-MARKS PUBLISHED (113 APPLICATIONS) | 517 |
| TRADE-MARK REGISTRATIONS GRANTED | 531 |
| TRADE-MARK REGISTRATIONS RENEWED | 536 |
| REISSUES | 541 |
| PLANT PATENTS | 542 |
| PATENTS GRANTED | 543 |
| DESIGNS | 657 |

### November 27, 1945

| | | |
|---|---|---|
| Trade-Marks | 95 | No. 417,985 to No. 418,079, inclusive. |
| T. M. Renewals | 99 | |
| Reissues | 5 | No. 22,695 to No. 22,699, inclusive. |
| Patents | 456 | No. 2,389,584 to No. 2,390,039, inclusive. |
| Designs | 81 | No. 142,977 to No. 143,057, inclusive. |
| Total | 736 | |

### Disclaimers

2,115,537.—*Edmund W. A. Peter,* Vancouver, British Columbia, Canada. INDEX DEVICE. Patent dated Apr. 26, 1938. Disclaimer filed Oct. 17, 1945, by the inventor and the licensee, *The Bates Manufacturing Company.*

Hereby enter this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 8, 16, 17, 19, and 21 of said patent.

2,186,935.—*Donald S. Barrows,* Rochester, N. Y. JOURNAL BOX. Patent dated Jan. 16, 1940. Disclaimer filed Oct. 25, 1945, by the inventor and the assignee, *The Symington-Gould Corporation.*

Hereby enters this disclaimer to claim 6 of said patent.

### Printed Copies of Patents

A printed copy of the complete specification and drawings of any patent published herein can be obtained for ten cents.

### Drawings

Attention is called to paragraphs *g* and *i* of Rule 52 of the Rules of Practice of the Patent Office, and inventors and attorneys are directed to omit from the space outside of the marginal line of the drawings any marks of identification, inasmuch as the space referred to is reserved for the use of the Patent Office. Such identifying marks should be placed upon the back of the drawings.

### Photostat Copies

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given, the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the same number may appear in different years.

### Adverse Decisions in Interference

Where the claims of a patent are affected by adverse decision or concession of priority as the result of an interference, a notice as to the patented claims thus affected will be published in the OFFICIAL GAZETTE after final decision in the proceedings.

### Communications to the Patent Office

RULE 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

### Printed Copies of Trade-Marks

A printed copy of the drawing and statement of any registered trade-mark can be obtained for ten cents.

### Cross-References in Cases Relating to Same Subject

RULE 43. When an applicant files two or more applications relating to the same subject matter of invention, all showing but only one claiming the same thing, the applications not claiming it must contain references to the application claiming it.

### Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

## Condition of Applications Under Examination at Close of Business November 9, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 77,216; Trade-Mark Division, 3,059. Oldest new case, October 27, 1944; oldest amended, November 2, 1944.)
(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action | | No. of applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 1 | Jan. 8 | 1278 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile-Wringers; Butchering. | †Oct. 30 | †Nov. 6 | 1503 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 4 | Jan. 5 | 1419 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | †Dec. 29 | Apr. 18 | 1188 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Nov. 4 | †Nov. 7 | 2042 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb. 3 | Mar. 1 | 1328 |
| 7. JARBOE, C. G., Optics, Photography | May 19 | May 28 | 1112 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 20 | Apr. 10 | 1313 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 4 | 1406 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 16 | June 2 | 377 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 5 | †Nov. 25 | 1405 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning | Apr. 4 | Mar. 22 | 1193 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery. | Apr. 10 | Apr. 2 | 911 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | Apr. 26 | Apr. 19 | 944 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 24 | Mar. 23 | 923 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | †Dec. 28 | Jan. 1 | 724 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 15 | Feb. 17 | 1271 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Feb. 3 | Jan. 24 | 847 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Mar. 10 | Mar. 13 | 880 |
| 21. THOMPSON, T. J., Textiles | May 18 | May 10 | 543 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Mar. 12 | Mar. 3 | 1328 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 28 | 162 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 4 | Mar. 21 | 884 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Feb. 12 | Feb. 14 | 1110 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 15 | †Dec. 11 | 1356 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Dec. 1 | 1277 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Nov. 27 | †Nov. 29 | 1079 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools | Jan. 3 | †Dec. 21 | 1308 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 12 | Feb. 9 | 1371 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | June 19 | June 14 | 873 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Apr. 5 | Apr. 21 | 1025 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 9 | Feb. 17 | 1314 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 5 | Feb. 19 | 754 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Jan. 26 | Feb. 2 | 1109 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Feb. 26 | Mar. 1 | 966 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | †Dec. 23 | †Dec. 15 | 1261 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Jan. 31 | Jan. 6 | 978 |
| 39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 11 | Jan. 12 | 1428 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 14 | Feb. 10 | 1509 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 610 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Feb. 26 | Mar. 27 | 675 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 12 | Jan. 4 | 822 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Oct. 27 | †Nov. 2 | 751 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | †Dec. 21 | Feb. 8 | 1446 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus | Jan. 15 | Feb. 9 | 847 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 7 | Apr. 18 | 1359 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | Jan. 1 | †Dec. 23 | 1362 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Mar. 27 | Apr. 2 | 757 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 10 | Mar. 10 | 1579 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Jan. 30 | Jan. 20 | 2201 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 9 | Feb. 2 | 1825 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Nov. 1 | †Nov. 30 | 1496 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 31 | †Nov. 18 | 1522 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 3 | Feb. 26 | 984 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | †Dec. 19 | †Dec. 26 | 1140 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 5 | †Dec. 9 | 1311 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | Apr. 27 | 766 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 23 | †Dec. 15 | 1514 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 12 | Jan. 13 | 1271 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 13 | Feb. 21 | 1267 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 4 | †Dec. 15 | 2065 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 29 | Jan. 8 | 1651 |
| 64. NABEL, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | July 6 | July 6 | 849 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Dec. 1 | †Dec. 2 | 1494 |
| Trade-Marks: RICHMOND, F. A | July 30 | Sept. 1 | 3059 |
| Designs: KALUPY, H. H | July 23 | Sept. 7 | 1946 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aeronca Aircraft Corporation, Middletown, Ohio. Airplanes and structural parts thereof. Serial No. 485,487; Nov. 27. Class 19.

Agency Paper Company, New York, N. Y. Carbon paper and typewriter ribbons. Serial No. 478,797; Nov. 27. Class 11.

American Coffee Company, Inc., New Orleans, La. Coffee and tea. Serial No. 485,982; Nov. 27. Class 46.

American Generator & Armature Company, Chicago, Ill. Electric generators and armatures. Serial No. 483,711; Nov. 27. Class 21.

Anabolic Food Products, Inc., Glendale, Calif. Vitamin and mineral preparation. Serial No. 476,826; Nov. 27. Class 6.

Auburn Truck Gardens: *See*—
Dirrim, Howard V.

Badger Paper Company, Los Angeles, Calif. Toilet paper, waxed paper, cleansing tissue, paper towels, etc. Serial No. 483,953; Nov. 27. Class 37.

Blum's, Inc., Baltimore, Md. Women's dresses, coats, and suits. Serial No. 485,126; Nov. 27. Class 39.

Bradley, Raymond T., doing business as Pawl-Rae Products Company, South Bend, Ind. Hand cleaner. Serial No. 486,138; Nov. 27. Class 4.

Brown, Andrew, Company, Los Angeles, Calif. Metal paint primer. Serial No. 483,132; Nov. 27. Class 16.

Buildo Co., The: *See*—
Farmer, E. Weston.

Callaway Mills, La Grange, Ga. Toweling made of cotton yarns. Serial No. 486,982; Nov. 27. Class 42.

Capeway Food Co.: *See*—
Fogarty, Warren A., Jr.

Coloso Limited, Ridgefield, N. J. Electrical household appliances. Serial No. 483,212; Nov. 27. Class 21.

Columbia Mills, Inc., The, New York, N. Y. Floor trucks with trays. Serial No. 482,733; Nov. 27. Class 19.

Commercial Metal Products Co., Chicago, Ill. Photographic equipment and accessories. Serial No. 478,031; Nov. 27. Class 26.

Continental Commodities Corporation, New York, N. Y. Tartaric acid, geranium oil, and menthol. Serial No. 485,436; Nov. 27. Class 6.

Cooperative Seed and Farm Supply Service, Inc., Richmond, Va. Mixture of ingredients for making insecticides and fungicides. Serial Nos. 485,943–4; Nov. 27. Class 6.

Cork Import Corporation, New York, N. Y. Heat and sound insulation material. Serial No. 481,466; Nov. 27. Class 12.

Cortland Line Company, Inc., Cortland, N. Y. Fishing lines. Serial No. 484,943; Nov. 27. Class 22.

Crystal, David, Inc., New York, N. Y. Ladies', and misses' dresses, coats, dress and jacket ensembles, etc. Serial No. 485,401; Nov. 27. Class 39.

Dirrim, Howard V., doing business as Auburn Truck Gardens, Auburn, Ind. Fresh vegetables and fresh fruits. Serial No. 446,418; Nov. 27. Class 46.

Dohrmann Hotel Supply Co., San Francisco, Calif. Bread knives, paring knives, and cleavers. Serial No. 484,122; Nov. 27. Class 23.

Duro-Test Corporation, North Bergen, N. J., and elsewhere. Incandescent lamps. Serial No. 484,250; Nov. 27. Class 21.

Duro-Test Corporation, North Bergen, N. J., and elsewhere. Fluorescent lamps. Serial No. 484,252; Nov. 27. Class 21.

Dynamatic Corporation, Kenosha, Wis. Electro-magnetic clutches or couplings. Serial No. 480,316; Nov. 27. Class 21.

Dynamatic Corporation, Kenosha, Wis. Valves—to wit, overrunning power-transmission clutches. Serial No. 480,443; Nov. 27. Class 23.

Eagle & Phenix Mills, Columbus, Ga. Cotton piece goods. Serial No. 477,465; Nov. 27. Class 42.

Engll, Frank, New City, N. Y. Sunday newspaper features. Serial No. 481,277; Nov. 27. Class 38.

Etablissements Rigaud, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 484,165; Nov. 27. Class 6.

Etablissements Rigaud, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 484,169; Nov. 27. Class 6.

Faesy & Besthoff, Inc., New York, N. Y. Neutral tribased copper sulphate. Serial No. 479,282; Nov. 27. Class 6.

Family Flour Institute, Inc., Nashville, Tenn. Self-rising flour. Serial No. 484,090; Nov. 27. Class 46.

Farmer, E. Weston, doing business as The Buildo Co., Minneapolis, Minn. Toy construction sets. Serial No. 486,612; Nov. 27. Class 22.

Fleischmann, George W., Long Beach, Calif. Air disinfectants. Serial No. 486,146; Nov. 27. Class 6.

Fogarty, Warren A., Jr., doing business as Capeway Food Co., Boston, Mass. Smoked herring. Serial No. 487,187; Nov. 27. Class 46.

Foreman Fabrics Inc., New York, N. Y. Piece goods of rayon yarn. Serial No. 486,892; Nov. 27. Class 42.

Foreman Fabrics Inc., New York, N. Y. Piece goods of rayon yarns. Serial No. 486,893; Nov. 27. Class 42.

Franklin Transformer Manufacturing Company, Minneapolis, Minn. Battery chargers. Serial No. 482,569; Nov. 27. Class 21.

Fraser Hair Fashions, St. Paul, Minn. Chemical preparation used as an agent to speed the waving of hair. Serial No. 486,300; Nov. 27. Class 6.

Free State Brewery Corp., Baltimore, Md. Beer. Serial No. 487,777; Nov. 27. Class 48.

Gastonia Full Fashioned Hosiery Mill, Gastonia, N. C. Ladies' full fashioned hosiery. Serial No. 486,484; Nov. 27. Class 39.

Gibbons, J. T., Inc., New Orleans, La. Scratch feeds for poultry. Serial No. 482,321; Nov. 27. Class 46.

Glorified Miss, New York, N. Y. Misses' and women's dresses. Serial No. 485,144; Nov. 27. Class 39.

Gluek Brewing Company, Minneapolis, Minn. Pale, light-bodied malt liquor. Serial No. 463,816; Nov. 27. Class 48.

Gold Cap Chemical Co., Inc., Somerville, Mass. Shampoo. Serial No. 486,367; Nov. 27. Class 6.

Guerlain Perfumery Corporation of Delaware, Wilmington, Del., and New York, N. Y. Face cream. Serial No. 473,380; Nov. 27. Class 6.

Hanna Stoker Company, The, Cincinnati, Ohio. Parts of actuating steam engines and gear boxes for stokers. Serial No. 483,857; Nov. 27. Class 23.

Hardy, Benjamin J., New York, N. Y. Liquid preparation applicable to walls, floors, etc. Serial No. 484,401; Nov. 27. Class 16.

Harrison, Robert, New York, N. Y. Pictorial periodical also containing printed matter. Serial No. 484,296; Nov. 27. Class 38.

Heirloom Needlework Guild, Inc., New York, N. Y. Twisted paper cord. Serial No. 485,571; Nov. 27. Class 43.

Hercules Powder Company, Wilmington, Del. Cellulose acetate-propionate. Serial No. 486,408; Nov. 27. Class 6.

Hercules Powder Company, Wilmington, Del. Cellulose acetate-propionate. Serial No. 486,411; Nov. 27. Class 6.

Heribert, Herbert J., New York, N. Y. Solution to be used as a coating, finish or lacquer, etc. Serial No. 481,787; Nov. 27. Class 6.

Heribert, Herbert J., New York, N. Y. Solution to be used as a coating, finish or lacquer, etc. Serial Nos. 481,993–4; Nov. 27. Class 6.

Heymann, H. L., Company: *See*—
Heymann, Harry L.

Heymann, Harry L., doing business as H. L. Heymann Company, Easton, Pa. Typewriter ribbons and carbon papers. Serial No. 483,225; Nov. 27. Class 11.

Howard Preserving Company, Miami, Fla. Salad and cooking oil. Serial No. 487,256; Nov. 27. Class 46.

Hurley, Max, London, England. Electrically heated, oil loaded, hermetically sealed radiators. Serial No. 463,817; Nov. 27. Class 21.

International Chemical Company, Chicago, Ill. Dry alkaline preparation. Serial No. 480,244; Nov. 27. Class 6.

Johnston-Crowder Manufacturing Company, Birmingham, Ala. Toy building blocks. Serial No. 479,000; Nov. 27. Class 22.

Kelco Company, San Diego, Calif. Algin product containing sugar and dextrin. Serial No. 483,623; Nov. 27. Class 46.

Koppers Company, Inc., Kearny, N. J. Saponified cresylic compound. Serial No. 477,890; Nov. 27. Class 6.

Koret, Joe, doing business as Koret of California, San Francisco, Calif. Halters for women. Serial No. 476,623; Nov. 27. Class 39.

Koret of California: *See*—
Koret, Joe.

Lafond Chocolatier, New York, N. Y. Candy. Serial No. 485,999; Nov. 27. Class 46.

Lederle Laboratories, Inc., New York, N. Y. Amino acid preparation. Serial No. 486,958; Nov. 27. Class 6.

Mackmann, A., Tool & Engineering Company: *See*—
Mackmann, Arthur.

Mackmann, Arthur, doing business as A. Mackmann Tool & Engineering Company, Chicago, Ill. Machine tool cutters. Serial No. 483,828; Nov. 27. Class 23.

Magazine Enterprises: *See*—
Sullivan, Vincent.

Matthews, W. B., Company, The: *See*—
Matthews, William B.

Matthews, William B., doing business as The W. B. Matthews Company, San Antonio, Tex. Shock cord covers. Serial No. 480,465; Nov. 27. Class 19.

McCulloch, Rosco C., Columbus, Ohio. Laxative preparation. Serial No. 487,090; Nov. 27. Class 6.

McQuade, John, & Co., Inc., New York, N. Y. Ready-mixed paints; paste paints; paint enamels; etc. Serial No. 483,578; Nov. 27. Class 16.
McQuade, John, & Co., Inc., New York, N. Y. Ready mixed paints and varnishes. Serial No. 486,215; Nov. 27. Class 16.
Millen, James, Manufacturing Company, Inc., Malden, Mass. Electronic meters and measuring appliances. Serial No. 480,995; Nov. 27. Class 26.
Miranol Chemical Company, Inc., Irvington, N. J. Synthetic detergents. Serial Nos. 485,733–4; Nov. 27. Class 4.
Monroe Distributing Company: *See*—
Myerson, D. H.
Munsingwear, Inc., Minneapolis, Minn. Men's and boys' pajamas. Serial No. 484,539; Nov. 27. Class 39.
Myerson, D. H., doing business as Monroe Distributing Company, Los Angeles, Calif. After shave lotion, hair lotion, body cologne, etc. Serial No. 486,585; Nov. 27. Class 6.
Orange Belt Fruit Distributors, Pomona, Calif. Fresh citrus fruits. Serial No. 486,160; Nov. 27. Class 46.
Orange Belt Fruit Distributors, Pomona, Calif. Fresh citrus fruit. Serial No. 486,161; Nov. 27. Class 46.
Orange Belt Fruit Distributors, Pomona, Calif. Fresh citrus fruit. Serial No. 486,163; Nov. 27. Class 46.
Parfait, Incorporated, Chicago, Ill. Face powder. Serial No. 482,341; Nov. 27. Class 6.
Parfait, Incorporated, Chicago, Ill. Cosmetic creams. Serial No. 482,344; Nov. 27. Class 6.
Pataky, Olga, Philadelphia, Pa. Skin lotion in the form of a cream. Serial No. 486,542; Nov. 27. Class 6.
Pataky, Olga, Philadelphia, Pa. Skin cleansing cream. Serial No. 486,544; Nov. 27. Class 6.
Pawl-Rae Products Company: *See*—
Bradley, Raymond T.
Peal, J. Floyd: *See*—
Rish-Ard Laboratories.
Pharis Tire and Rubber Company, The, Newark, Ohio. Pneumatic tires and inner tubes for pneumatic tires. Serial No. 486,588; Nov. 27. Class 35.
Primrose House, Inc., New York, N. Y. Nail polish, lipstick, hair tonic, etc. Serial No. 485,057; Nov. 27. Class 6.
Pulverizing Machinery Company: *See*—
Ruprecht, Louis.
Purex Products, Incorporated, Baltimore, Md. After shave lotion, hand lotion, hair dressing. Serial No. 482,545; Nov. 27. Class 6.
Refinite Corporation, The, Omaha, Nebr. Aluminum silicate. Serial No. 485,960; Nov. 27. Class 6.
Remington Arms Company, Inc., Bridgeport, Conn. Firearms. Serial No. 478,247; Nov. 27. Class 9.
Republic Precision Mfg. Co., Chicago, Ill. Electric stoves and parts thereof. Serial No. 473,749; Nov. 27. Class 21.
Rexon Inc., New York, N. Y. Pyrophoric lighters for cigarettes, cigars and pipes. Serial No. 485,836; Nov. 27. Class 34.
Rish-Ard Laboratories, assignor to J. Floyd Peal, Los Angeles, Calif. Hair dressing. Serial No. 472,608; Nov. 27. Class 6.
Ruprecht, Louis, doing business as Pulverizing Machinery Company, Montclair and Summit, N. J. Grinding and pulverizing machines. Serial No. 481,759; Nov. 27. Class 23.
St. Louis Laboratories, Richmond Heights, Mo. Composition to be added to milk and milk products. Serial No. 486,822; Nov. 27. Class 46.
Sapolin Co. Inc., New York, N. Y. Ready mixed paints. Serial No. 486,332; Nov. 27. Class 16.
Shaw Coal & Coke Company, Philadelphia, Pa. Coal. Serial No. 484,371; Nov. 27. Class 1.
Smith, Benjamin D., doing business as Smith Manufacturing Company, Utica, N. Y. Insecticides and fly and insect spray. Serial No. 485,371; Nov. 27. Class 6.
Smith Manufacturing Company: *See*—
Smith, Benjamin D.
Sonneborn, L., Sons, Inc., New York, N. Y. Emulsifiable blend of alkyl derivatives. Serial No. 478,837; Nov. 27. Class 6.
Specific Pharmaceuticals, Inc., New York, N. Y. Treatment of asthma and related conditions. Serial No. 485,548; Nov. 27. Class 6.
Suen, Mark and Company, New York, N. Y. Cooking and seasoning sauces. Serial No. 487,444; Nov. 27. Class 46.
Sullivan, Vincent, doing business as Magazine Enterprises, New York, N. Y. Magazine containing comic strips and similar features. Serial No. 484,988; Nov. 27. Class 38.
Theatre Specialties, Incorporated, Los Angeles, Calif. Electrical display signs and the letters fitted for electrical illumination. Serial No. 478,367; Nov. 27. Class 21.
Thermweld Products Co., Inc., New York, N. Y. Rugs. Serial No. 474,249; Nov. 27. Class 42.
Twill Laboratories, Wilmington, N. C. Powder for cleaning. Serial No. 485,039; Nov. 27. Class 4.
Union Bottling Company, Memphis, Tenn. Nonalcoholic maltless carbonated beverage. Serial No. 485,930; Nov. 27. Class 45.
United States Gypsum Company, The, Chicago, Ill. Paste paint. Serial No. 475,346; Nov. 27. Class 16.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 486,441; Nov. 27. Class 6.
Vita-Var Corporation, Newark, N. J. Chemical compound to provide a waterproofing coating. Serial No. 472,601; Nov. 27. Class 12.
Water Service Laboratories, New York, N. Y. Chemical diffusion feeders. Serial No. 475,033; Nov. 27. Class 26.
Western Auto Supply Company, Kansas City, Mo. Seat covers for motor vehicles. Serial Nos. 485,312–14; Nov. 27. Class 19.
Western Auto Supply Company, Kansas City, Mo. Seat covers for motor vehicles. Serial No. 485,385; Nov. 27. Class 19.
Witco Chemical Company, Chicago, Ill. Hydrated yellow iron oxide. Serial No. 480,255; Nov. 27. Class 11.
Witco Chemical Company, Chicago, Ill. Hydrated yellow iron oxide. Serial No. 480,256; Nov. 27. Class 16.
Young Radiator Company, Racine, Wis. Air cooled heat exchanger surge valve. Serial No. 475,353; Nov. 27. Class 13.

# LIST OF REGISTRANTS OF TRADE-MARKS

A. & J. Manufacturing Co., The, Binghamton, N. Y., to Ekco Products Company, Chicago, Ill. Kitchen brushes. 205,325–6; renewed Nov. 3, 1945. O. G. Nov. 27. Class 29.
A. & J. Manufacturing Co., The, Binghamton, N. Y., to Ekco Products Company, Chicago, Ill. Kitchen and household tools or utensils. 202,466–7; renewed Aug. 25, 1945. O. G. Nov. 27. Class 23.
Agency Paper Company, New York, N. Y. Paper desk calendars and paper desk calendar pads. 418,043; Nov. 27; Serial No. 483,414; published Sept. 18, 1945. Class 37.
Aladdin Industries, Incorporated, Alexandria, Va., and Chicago, Ill. Vacuum bottles and heat-insulated receptacles. 418,011; Nov. 27; Serial No. 480,127; published Sept. 18, 1945. Class 2.
Alaska Salmon Company, San Francisco, Calif., to Bristol Bay Packing Company, Seattle, Wash. Canned salmon. 207,978; renewed Jan. 12, 1946. O. G. Nov. 27. Class 46.
Alexander, Jane, Valley Stream, N. Y. Buttons, clips and clasps for the hair and for garments, and garment buckles, etc. 418,024; Nov. 27; Serial No. 482,192; published Aug. 21, 1945. Class 40.
Alexander, Jane, Valley Stream, N. Y. Textile fabrics in the piece. 418,025; Nov. 27; Serial No. 482,234; published Aug. 28, 1945. Class 42.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. China and ceramic dinnerware. 417,990; Nov. 27; Serial No. 469,949; published Sept. 11, 1945. Class 30.
Amboy Milk Products Co., Amboy, Ill. Evaporated milk. 208,420; renewed Feb. 2, 1946. O. G. Nov. 27. Class 46.
American Coffee Company, Inc.: *See*—
New Orleans Coffee Co. Ltd.
American Lady Corset Co., Detroit, Mich. Corsets, brassières, girdles, etc. 203,877; renewed Sept. 29, 1945. O. G. Nov. 27. Class 39.
American Machine & Foundry Company: *See*—
Gibbs, William J., assignor.
American Writing Paper Corporation: *See*—
Whitaker Paper Company, The.
Amsterdam Broom Co., Amsterdam, N. Y. Brooms. 208,189–93; renewed Jan. 19, 1946. O. G. Nov. 27. Class 29.
Anglo Fabrics Company, New York, N. Y. Woolen piece goods. 417,998; Nov. 27; Serial No. 474,391; published Aug. 21, 1945. Class 42.
Apex Specialty Company: *See*—
Carson, George M.
Arel Photo Supply, St. Louis, Mo. Saddle and natural leather picture frames. 418,079; Nov. 27. Class 32.
Atlas Asbestos Company, North Wales, Pa. Ford transmission lining. 208,473; renewed Feb. 2, 1946. O. G. Nov. 27. Class 35.
Aumann, William E., St. Louis, Mo. Candy. 418,049; Nov. 27; Serial No. 484,226; published Sept. 18, 1945. Class 46.
Automatic Signal Corporation: *See*—
Signaphore Company, The.
Baker Importing Company: *See*—
Busch, H., & Co. Inc.
Baldwin Company, The: *See*—
Hamilton Organ Company.
Baldwin Company, The, Cincinnati, Ohio. Pianos. 46,993; re-renewed Oct. 17, 1945. O. G. Nov. 27. Class 36.



Bancroft, Joseph, & Sons Co., Wilmington, Del. Dyed fabrics. 418,061; Nov. 27; Serial No. 485,257; published Aug. 28, 1945. Class 42.
Banner Plastics Co., New York, N. Y. Toy boats, toy automobiles, children's toy tea sets, etc. 418,013; Nov. 27; Serial No. 480,364; published Sept. 18, 1945. Class 22.
Barbour, Perley E.: *See*—
Barbour Welting Company of Brockton, Massachusetts, assignor.
Barbour Welting Company: *See*—
Barbour Welting Company of Brockton, Massachusetts.
Barbour Welting Company of Brockton, Massachusetts, Quincy, assignor to Perley E. Barbour, to Barbour Welting Company, Brockton, Mass. Welting for boots and shoes. 207,961; renewed Jan. 12, 1946. O. G. Nov. 27. Class 39.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 418,054; Nov. 27; Serial No. 484,518; published Sept. 18, 1945. Class 26.
Blue Ridge Glass Corporation, Kingsport, Tenn. Figured and wired tempered flat glass. 417,985; Nov. 27; Serial No. 459,531; published Sept. 11, 1945. Class 33.
Boardman's, Mrs., Food Products: *See*—
Solomon, Millicent K.
"Bon Marche, The": *See*—
Allied Stores Corporation.
Bristol Bay Packing Company: *See*—
Alaska Salmon Company.
Buffalo Meter Company, Buffalo, N. Y. Quantity meters for measuring water, oil, gasoline, and other liquids. 206,252; renewed Nov. 24, 1945. O. G. Nov. 27. Class 26.
Burke, Frank G., to Manhattan Soap Company, Inc., New York, N. Y. Laundry soap and toilet soap. 48,471; re-renewed Jan. 2, 1946. O. G. Nov. 27. Class 4.
Burkhardt Bros. Co., The, Cincinnati, Ohio. Men's suits, topcoats, caps, sweaters, etc. 203,006; renewed Sept. 8, 1945. O. G. Nov. 27. Class 39.
Burnett, Joseph, Company, Boston, Mass. Spice. 208,464; renewed Feb. 2, 1946. O. G. Nov. 27. Class 46.
Busch, H., & Co. Inc., to Baker Importing Company, New York, N. Y. Coffee, tea, rice, and food-flavoring extracts. 206,417; renewed Dec. 1, 1945. O. G. Nov. 27. Class 46.
Callaway Mills, La Grange, Ga. Untreated textile fabric polishing cloths. 417,999; Nov. 27; Serial No. 474,573; published Sept. 4, 1945. Class 42.
Callaway Mills, La Grange, Ga. Piece goods of cotton and of cotton and rayon. 418,000; Nov. 27; Serial No. 474,578; published Aug. 28, 1945. Class 42.
Campbell, Henry, & Co. Limited: *See*—
Harris, Jonathan, & Sons Ltd.
Cannon & Waller, Incorporated, Toledo, Ohio. Smoking tobacco and cigarettes. 418,039; Nov. 27; Serial No. 483,256; published Sept. 18, 1945. Class 17.
Capudine Chemical Company, Raleigh, N. C. Cure for headaches, colds and indigestion. 45,264; re-renewed Aug. 8, 1945. O. G. Nov. 27. Class 6.
Carpenter Steel Company, The, Reading, Pa. Steel in the form of wire, strips, bars, etc. 418,071–3; Nov. 27. Class 14.
Carson, George M., doing business as Apex Specialty Company, New York, N. Y. Optical goods. 418,040; Nov. 27; Serial No. 483,258; published Sept. 18, 1945. Class 26.
Cheerfuletters Stationery Co., Minneapolis, Minn. Stationery, specifically, boxed writing paper and envelopes. 418,046; Nov. 27; Serial No. 483,885; published Sept. 18, 1945. Class 37.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 206,159; renewed Nov. 24, 1945. O. G. Nov. 27. Class 42.
Cleary, Richard T., Charleston, W. Va. Shampoo and a scalp treatment. 208,257; renewed Jan. 26, 1946. O. G. Nov. 27. Class 6.
Cluett, Peabody & Co., Inc.: *See*—
Cluett, Peabody & Co.
Cluett, Peabody & Co., to Cluett, Peabody & Co., Inc., Troy, N. Y. Outer shirts and dress shirts. 49,050; re-renewed Jan. 23, 1946. O. G. Nov. 27. Class 39.
Concordia-Gallia Corp., New York, N. Y. Textile fabrics in the piece. 418,028; Nov. 27; Serial No. 482,672; published Aug. 28, 1945. Class 42.
Continental Mills, Inc., Philadelphia, Pa. Woolen and worsted piece goods, jersey piece goods, elderdown piece goods, etc. 417,986; Nov. 27; Serial No. 462,986; published Aug. 21, 1945. Class 42.
Corning Glass Works, Corning, N. Y. Glass wool. 417,987; Nov. 27; Serial No. 468,560; published Sept. 18, 1945. Class 1.
Crest Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 418,059; Nov. 27; Serial No. 484,828; published Aug. 28, 1945. Class 42.
Davis, Effie M., Syracuse, to Effie M. Davis, Oneida, N. Y. Deodorant and preventive of perspiration. 208,450; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.
Davis, H. B., Company, The, to The H. B. Davis Company, Baltimore, Md. Semipaste paint. 207,364; renewed Dec. 29, 1945. O. G. Nov. 27. Class 16.
Dental Specialty Manufacturing Co., Inc., The, Denver, Colo. Handpiece cleaner and lubricant, an oil-base liquid. 418,052; Nov. 27; Serial No. 484,340; published Sept. 11, 1945. Class 15.
Deshell Laboratories, Inc., Los Angeles, Calif., to Wyeth Incorporated, Philadelphia, Pa. Bottles containing a compound of medicinal oil and agar-agar. 204,318; renewed Oct. 13, 1945. O. G. Nov. 27. Class 6.
Dey Brothers & Company: *See*—
Allied Stores Corporation.
Diamond, Harry, New York, N. Y. Shoulder straps for undergarments. 418,006; Nov. 27; Serial No. 479,280; published Aug. 14, 1945. Class 40.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Beet knife filing machine, beet knife straightening machines, and precise grinders. 418,055; Nov. 27; Serial No. 484,521; published Sept. 11, 1945. Class 23.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Power chain saws, power chain saw sharpening machines and parts pertaining thereto. 418,056; Nov. 27; Serial No. 484,522; published Sept. 11, 1945. Class 23.
Dowaliby, Inc., New York, N. Y. Women's negligees, pajamas, and underwear. 418,045; Nov. 27; Serial No. 483,610; published Sept. 18, 1945. Class 39.
Downing Taylor Company, Springfield, Mass. Bluing and ammonia. 208,267; renewed Jan. 26, 1946. O. G. Nov. 27. Class 6.
Dunn, Richard T.: *See*—
Traudt, Frank.
Durkee, E. R., & Co., New York, N. Y., to The Glidden Company, Cleveland, Ohio. Seeds and prepared mixtures of seeds as food for birds and fowls. 48,985; re-renewed Jan. 16, 1946. O. G. Nov. 27. Class 46.
Durkee, E. R., & Co., New York, N. Y., to The Glidden Company, Cleveland, Ohio. Spices and mustard. 48,986; re-renewed Jan. 16, 1946. O. G. Nov. 27. Class 46.
Eagle Pencil Company, to Eagle Pencil Company, New York, N. Y. Lead-pencils. 49,122; re-renewed Jan. 23, 1946. O. G. Nov. 27. Class 37.
Eichler, John, Brewing Company, The, New York, N. Y. Beer. 48,728; re-renewed Jan. 9, 1946. O. G. Nov. 27. Class 48.
Eisenberg Jewelry, Inc., Chicago, Ill. Clips, pins, rings, etc. 418,015; Nov. 27; Serial No. 480,567; published Sept. 18, 1945. Class 28.
Ekco Products Company: *See*—
A. & J. Manufacturing Co., The.
Embosograf Corporation of America, New York, N. Y. Embossing presses and embossing dies and type for use therein. 418,057; Nov. 27; Serial No. 484,675; published Sept. 11, 1945. Class 23.
Establissments Rigaud, Inc.: *See*—
Parfumerie Rigaud, Inc.
Eugene, Ltd.: *See*—
Eugene Ltd.
Eugene Ltd., New York, to Eugene, Ltd., Brooklyn, N. Y. Sachets or devices for use in permanent hair waving. 202,760; renewed Sept. 1, 1945. O. G. Nov. 27. Class 40.
Evans, David G., Coffee Company: *See*—
Meyer Brothers Coffee and Spice Company.
Exeter Orchards Association, Exeter, Calif. Fresh citrus fruits. 418,005; Nov. 27; Serial No. 479,116; published Aug. 14, 1945. Class 46.
Fairbanks Co., The, New York, N. Y. Steam-valves and water-valves. 49,354; re-renewed Jan. 30, 1946. O. G. Nov. 27. Class 13.
Fisch & Company, Los Angeles, Calif. Men's sport shirts. 418,042; Nov. 27; Serial No. 483,311; published Sept. 18, 1945. Class 39.
Flake, Herbert L., Houston, Tex. Bicycles. 418,074; Nov. 27. Class 19.
Fluff Co., The: *See*—
Pape, Harry W.
Foerderer, Robert H., Incorporated, Philadelphia, Pa. Leather for the uppers of shoes. 48,510; re-renewed Jan. 2, 1946. O. G. Nov. 27. Class 1.
Foerderer, Robert H., Incorporated, Philadelphia, Pa. Leather for the uppers of shoes. 48,829; re-renewed Jan. 16, 1946. O. G. Nov. 27. Class 1.
Fox, Peter, Sons Company, The: *See*—
Fox, Peter, Sons Co., The.
Fox, Peter, Sons Co., The, to The Peter Fox Sons Company, Chicago, Ill. Dressed poultry and eggs. 200,879; renewed July 14, 1945. O. G. Nov. 27. Class 46.
Fox, Peter, Sons, Co., The, to The Peter Fox Sons Company, Chicago, Ill. Dressed poultry and eggs. 201,881; renewed Aug. 4, 1945. O. G. Nov. 27. Class 46.
Fraisse Laboratories, Inc.: *See*—
Marius Fraisse and Co.
Galena-Signal Oil Company, Franklin, Pa., to Valvoline Oil Company, Cincinnati, Ohio, and Edgewater, N. J. Lubricating oils. 49,274; re-renewed Jan. 30, 1946. O. G. Nov. 27. Class 15.
General Cable Corporation: *See*—
Standard Underground Cable Company.
General Electric Company, Schenectady, N. Y. Electrical resistance or semi-conducting material. 418,008; Nov. 27; Serial No. 479,709; published Sept. 11, 1945. Class 21.

Gibbs, William J., doing business as Lowerator Manufacturing Co., assignor to American Machine & Foundry Company, Brooklyn, N. Y. Apparatus for holding articles or layers of articles. 418,001; Nov. 27; Serial No. 475,205; published Sept. 11, 1945. Class 23.

Gill, A. C., Limited, Nottingham, England. Twist lace. 418,002; Nov. 27; Serial No. 475,493; published Sept. 11, 1945. Class 42.

Glidden Company, The: *See*—
Durkee, E. R., & Co.
Troco Company.

Goldman-Rossman Corporation, New York, N. Y. Textile fabrics. 417,995; Nov. 27; Serial No. 471,032; published Aug. 21, 1945. Class 42.

Goodrich, B. F., Company, The, New York, N. Y. Pneumatic tires composed of rubber and fibrous material. 201,794; renewed Aug. 4, 1945. O. G. Nov. 27. Class 35.

Haffenreffer & Co., Inc.: *See*—
New England Brewing Co.

Hamilton Organ Company, Chicago Heights, Ill., to The Baldwin Company, Cincinnati, Ohio. Pianos. 47,072; renewed Oct. 24, 1945. O. G. Nov. 27. Class 36.

Hammel, Riglander & Co., Inc., New York, N. Y. Pliers, nippers, tweezers, etc. 418,009; Nov. 27; Serial No. 479,872; published June 5, 1945. Class 23.

Harris, Jonathan, & Sons Ltd., Cockermouth, England, to Henry Campbell & Co. Limited, Belfast, Northern Ireland. Threads of all kinds. 27,727; re-renewed Feb. 4, 1946. O. G. Nov. 27. Class 43.

Heiman, Arthur S., Inc., New York, N. Y. Rayon piece goods. 418,033–4; Nov. 27; Serial Nos. 482,990–1; published Sept. 18, 1945. Class 42.

Helm, Pauline M., Springfield, Mo. Needlework samplers. 418,037; Nov. 27; Serial No. 483,111; published Sept. 11, 1945. Class 40.

Hildreth, H. L., Company, Boston, Mass. Candy. 205,704; renewed Nov. 17, 1946. O. G. Nov. 27. Class 46.

Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 207,480; renewed Jan. 5, 1946. O. G. Nov. 27. Class 22.

Hofbauer, Frank, doing business as Mohawk Tool Company, Detroit and Hazel Park, Mich. Rotary cutting tools. 418,012; Nov. 27; Serial No. 480,236; published Sept. 11, 1945. Class 23.

Hoffmann, Dr., Medicine Co.: *See*—
Traudt, Frank.

Hollywood Brands, Inc.: *See*—
Martoccio, F. A., Company.

Hormel, Geo. A., & Company: *See*—
Hormel, George A., & Co.

Hormel, George A., & Co., to Geo. A. Hormel & Company, Austin, Minn. Cured meats. 48,457; re-renewed Jan. 2, 1946. O. G. Nov. 27. Class 46.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 207,709; renewed Jan. 5, 1946. O. G. Nov. 27. Class 6.

Ivers-Lee Company, Newark, N. J. Merchandise envelopes formed of "cellophane" and "pliofilm" or the like. 418,068; Nov. 27. Class 2.

Jacobi, E. B., Fayette, Mo. Medicinal preparation. 207,571; renewed Jan. 5, 1946. O. G. Nov. 27. Class 6.

Jewel Togs, Inc., New York, N. Y. Button and button tapes and snap fastener tapes. 417,991; Nov. 27; Serial No. 470,110; published Sept. 4, 1945. Class 40.

Katzenstein, Gertrude: *See*—
Katzenstein, Max and G.

Katzenstein, Max, and Gertrude Katzenstein, New York, N. Y. Stocking reinforcements for attachment to the garter welts of the stockings. 418,007; Nov. 27; Serial No. 479,389; published Aug. 14, 1945. Class 40.

Kinney, H. W., and Sons, Inc., Columbus, Ind. Carbohydrate syrup for infant feeding. 418,058; Nov. 27; Serial No. 484,787; published Sept. 18, 1945. Class 46.

Kneisley Electric Company, Toledo, Ohio. Electric rotary tap switches, electric rectifiers, etc. 418,010; Nov. 27; Serial No. 480,072; published Sept. 11, 1945. Class 21.

Kohnstamm, H., & Co., Inc., New York, N. Y. Soap. 418,070; Nov. 27. Class 4.

Kraft Cheese Company: *See*—
Sharpless, P. E., Co.

Kraft Cheese Company, to Kraft Cheese Company, Chicago, Ill. Cheese. 202,660; renewed Sept. 1, 1945. O. G. Nov. 27. Class 46.

Kress, S. H., and Company, New York, N. Y. Face powder, face creams, face packs, etc. 207,674; renewed Jan. 5, 1946. O. G. Nov. 27. Class 6.

Laboratoires Fraisse: *See*—
Marius Fraisse and Co.

Leach, C. H., Company, Englewood, N. J. Heat exchangers. 418,065; Nov. 27. Class 34.

Leon, L., Company, The, Massapequa, Long Island, N. Y. Curl clips. 418,029; Nov. 27; Serial No. 482,805; published Sept. 4, 1945. Class 40.

Leonard Company, The, New York, N. Y. Plastic coated textile fabrics. 418,038; Nov. 27; Serial No. 483,185; published Sept. 4, 1945. Class 42.

Lily of France Corset Co., to Lily of France Corset Company, Inc., New York, N. Y. Corsets. 208,343; renewed Jan. 26, 1946. O. G. Nov. 27. Class 39.

Lily of France Corset Company, Inc.: See—
Lily of France Corset Co.

Lowerator Manufacturing Co.: See—
Gibbs, William J.

Maas, W. S., Inc., New York, N. Y. Brassières. 418,053; Nov. 27; Serial No. 484,491; published Sept. 18, 1945. Class 39.

Madison, Dolly, Hair Pin Corp., New York, N. Y. Hair pins. 418,019; Nov. 27; Serial No. 481,738; published Sept. 4, 1945. Class 40.

Manhattan Soap Company, Inc.: *See*—
Burke, Frank Gains.

Marius Fraisse and Co., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc., to Fraisse Laboratories, Inc., New York, N. Y. Preparation administered in ampul form. 208,498; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Marius Fraisse and Co., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc., to Fraisse Laboratories, Inc., New York, N. Y. Preparation for the treatment of syphilis. 208,499; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Marius Fraisse and Co., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc., to Fraisse Laboratories, Inc., New York, N. Y. Preparation in ampul form for neurasthenia. 208,500; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Marius Fraisse and Co., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc., to Fraisse Laboratories, Inc., New York, N. Y. Preparation administered in ampul form for the treatment of anaemia. 208,501; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Martoccio, F. A., Company, Minneapolis, Minn., to Hollywood Brands, Inc., Centralia, Ill. Candy bars. 208,545; renewed Feb. 2, 1946. O. G. Nov. 27. Class 46.

McBrady, Bernard: *See*—
McBrady, John E.

McBrady, J. E., & Co.: *See*—
McBrady, John E.

McBrady, J. E., & Company: *See*—
McBrady, John E.

McBrady, John E., doing business as J. E. Brady & Company, to Bernard McBrady, doing business as J. E. McBrady & Co., Chicago, Ill. Medicinal preparation. 208,435; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

McQuade, John, & Co., Inc., New York, N. Y. Ready mixed paints and varnishes. 418,078; Nov. 27. Class 16.

Meyer Brothers Coffee and Spice Company, to David G. Evans Coffee Company, St. Louis, Mo. Coffee. 49,002; re-renewed Jan. 16, 1946. O. G. Nov. 27. Class 46.

Meyer, Maximilian C., Brooklyn, N. Y. Baseball game. 417,996; Nov. 27; Serial No. 472,647; published Sept. 18, 1945. Class 22.

Moffett Grocer Company, Flint, Mich. Canned fish, food-flavoring extracts, condiments, etc. 200,865; renewed July 14, 1945. O. G. Nov. 27. Class 46.

Mohawk Tool Company: *See*—
Hofbauer, Frank.

Nashua Manufacturing Company: *See*—
Tremont & Suffolk Mills.

Nekoosa-Edwards Paper Company, Port Edwards, Wis. Wrapping paper. 205,192; renewed Nov. 3, 1945. O. G. Nov. 27. Class 37.

New England Brewing Co., doing business as The Roessle Brewery, to Haffenreffer & Co., Inc., Boston, Mass. Cereal malt beverage. 208,232; renewed Jan. 19, 1946. O. G. Nov. 27. Class 48.

New Orleans Coffee Co. Ltd., to Penick & Ford, Ltd. Incorporated, New York, N. Y. Syrup, molasses, and sorghum. 45,465–7; re-renewed Aug. 22, 1945. O. G. Nov. 27. Class 46.

New Orleans Coffee Co. Ltd., to Penick & Ford, Ltd. Incorporated, New York, N. Y. Syrups, molasses, and sorghums. 45,468; re-renewed Aug. 22, 1945. O. G. Nov. 27. Class 46.

New Orleans Coffee Co. Ltd., New Orleans, La., to Penick & Ford, Ltd. Incorporated, New York, N. Y. Molasses, syrups, and sorghums. 47,529; re-renewed Nov. 7, 1945. O. G. Nov. 27. Class 46.

New Orleans Coffee Co. Ltd., to American Coffee Company, Inc., New Orleans, La. Roasted and ground coffee. 49,057; re-renewed Jan. 23, 1946. O. G. Nov. 27. Class 46.

New Orleans Coffee Co. Ltd., New Orleans, La., to Penick & Ford, Ltd., Incorporated, New York, N. Y. Pure cane sirup for food purposes. 207,320; renewed Dec. 29, 1945. O. G. Nov. 27. Class 46.

Niagara Filter Corporation, Buffalo, N. Y. Gravity-operated and powered elevating conveyors. 417,989; Nov. 27; Serial No. 469,506; published Sept. 18, 1945. Class 23.

North American Foods Incorporated, Boston, Mass. Frozen foods, frozen cooked foods. 418,004; Nov. 27; Serial No. 477,114; published Sept. 18, 1945. Class 46.

Northwest Butter & Egg Company, Minneapolis, Minn. Butter. 418,066; Nov. 27. Class 46.

Oakes & Co., also doing business as Tru-Test, Chicago, Ill. Pneumatic rubber and rubber and fabric tires and inner tubes for automobiles and tractors. 418,016; Nov. 27; Serial No. 480,618; published Sept. 18, 1945. Class 35.

Oakite Products, Inc., New York, N. Y. Soluble oils. 418,060; Nov. 27; Serial No. 484,967; published Sept. 11, 1945. Class 15.



Optical Service Corporation, to Soft-Lite Lens Company, Inc., New York, N. Y. Ophthalmic lenses and blanks. 201,695; renewed Aug. 4, 1945. O. G. Nov. 27. Class 26.

Orr Felt & Blanket Company, The, Piqua, Ohio. Blankets of wool. 418,063; Nov. 27; Serial No. 485,695; published Sept. 11, 1945. Class 42.

Oshkosh Trunk Company, The, to Oshkosh Trunks and Luggage, Oshkosh, Wis. Wardrobe trunks, dress trunks, cabin or steamer trunks, etc. 202,709–10; renewed Sept. 1, 1945. O. G. Nov. 27. Class 3.

Oshkosh Trunks and Luggage: *See*—
Oshkosh Trunk Company, The.

Pape, Harry W., doing business as The Fluff Co., Cincinnati, Ohio, to Whitehall Pharmacal Company, New York, N. Y. Shampoo. 204,936; renewed Oct. 27, 1945. O. G. Nov. 27. Class 6.

Parfait, Incorporated, Chicago, Ill. Soap. 418,076; Nov. 27. Class 4.

Parfumerie Rigaud, Inc., to Etablissements Rigaud, Inc., New York, N. Y. Perfumes, toilet waters, face creams, etc. 207,447; renewed Jan. 5, 1945. O. G. Nov. 27. Class 6.

Parfumerie St. Denis, New York, N. Y., to Shulton, Inc., Hoboken, N. J. Face powders, face creams, toilet waters, etc. 201,613; renewed Aug. 4, 1945. O. G. Nov. 27. Class 6.

Patch, E. L., Company, The, Stoneham, Mass. Flavored cod-liver oil. 207,668; renewed Jan. 5, 1946. O. G. Nov. 27. Class 6.

Patch, E. L., Company, The, Stoneham, Mass. Tablets for the treatment of boils and other forms of skin affections. 208,085; renewed Jan. 19, 1946. O. G. Nov. 27. Class 6.

Paxton, Elisha W., doing business as Vakald, St. Louis, Mo. Instrument for the treatment of sinus trouble. 418,003; Nov. 27; Serial No. 476,817; published Sept. 18, 1945. Class 44.

Penick & Ford, Ltd. Incorporated: *See*—
New Orleans Coffee Co. Ltd.

Piver, L. T., Inc., Wilmington, Del., and New York, to L. T. Piver, Inc., New York, N. Y. Toilet soaps. 207,659; renewed Jan. 5, 1946. O. G. Nov. 27. Class 4.

Piver, L. T., Inc., Wilmington, Del., and New York, to L. T. Piver, Inc., New York, N. Y. Perfumes, eau de toilette, eau vegetale, etc. 207,707; renewed Jan. 5, 1946. O. G. Nov. 27. Class 6.

Piver, L. T., Inc., Wilmington, Del., and New York, to Piver, L. T., Inc., New York, N. Y. Rouges and face powders. 208,494; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Pla-Safe Plastics Corporation, Buffalo, N. Y. Wrist watch straps. 418,021; Nov. 27; Serial No. 481,799; published Sept. 4, 1945. Class 40.

Polis & Hagan, Edinburg, Tex. Fresh citrus fruits and fresh vegetables. 418,035; Nov. 27; Serial No. 483,082; published Aug. 28, 1945. Class 46.

Polk Packing Association, Winter Haven, Fla. Citrus products. 418,032; Nov. 27; Serial No. 482,949; published Sept. 11, 1945. Class 46.

Pollak, Henry, Inc., New York, N. Y. Hat and millinery braids. 418,026; Nov. 27; Serial No. 482,393; published Sept. 11, 1945. Class 40.

Quackenbush Company: *See*—
Allied Stores Corporation.

Reliable Textile Co., Inc., New York, N. Y. Piece goods of rayon, cotton, wool, silk and mixtures thereof. 417,994; Nov. 27; Serial No. 470,679; published Aug. 21, 1945. Class 42.

Rieber, Frank, Inc., Los Angeles, Calif. Magnetic tape and wire recorders and reproducers. 417,997; Nov. 27; Serial No. 472,752; published Sept. 11, 1945. Class 21.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Piece goods of cotton, rayon, or mixtures thereof. 418,048; Nov. 27; Serial No. 484,064; published Sept. 11, 1945. Class 42.

Rohltshek, Schneider Co., Minneapolis, Minn. Sheepskin fur coats and vests, sheepskin-lined coats and vests, woolskin-lined coats and vests, etc. 208,170; renewed Jan. 19, 1946. O. G. Nov. 27. Class 39.

Roessle Brewery, The: *See*—
New England Brewing Co.

Roth Fabrics Corporation, New York, N. Y. Rayon fabrics in the piece. 418,050; Nov. 27; Serial No. 484,276; published Sept. 18, 1945. Class 42.

Royal Hair Pin Corporation, New York, N. Y. Bob pins. 418,020; Nov. 27; Serial No. 481,757; published Sept. 4, 1945. Class 40.

Scarborough, M. A., Clarksville, Ark. Ointment for skin diseases. 208,488; renewed Feb. 2, 1946. O. G. Nov. 27. Class 6.

Schalk Chemical Company, Los Angeles, Calif. Composition for use as a floor cleaner. 202,801; renewed Sept. 1, 1945. O. G. Nov. 27. Class 4.

Schindel-McDaniels Co., Inc., New York, N. Y. Bedspreads, sheets, and pillow cases. 418,036; Nov. 27; Serial No. 483,089; published Sept. 4, 1945. Class 42.

Schreter, A., & Sons, Inc., Baltimore, Md. Money belts, money bags, and purses, wallets, etc. 417,992; Nov. 27; Serial No. 470,356; published Sept. 18, 1945. Class 3.

Schuckl & Co., Inc., doing business as Sunnyvale Packing Co., Sunnyvale, Calif. Canned soups, canned fruits, canned vegetables, etc. 418,014; Nov. 27; Serial No. 480,427; published Apr. 24, 1945. Class 46.

Scolding Locks Corporation, Appleton, Wis. Hair pins. 418,047; Nov. 27; Serial No. 484,034; published Aug. 28, 1945. Class 40.

Sears, Roebuck and Co., Chicago, Ill. Fruit preserves. 204,055; renewed Oct. 6, 1945. O. G. Nov. 27. Class 46.

Sharpless, P. E., Co., Philadelphia, Pa., to Kraft Cheese Company, Chicago, Ill. Butter and cheese. 202,886; renewed Sept. 8, 1945. O. G. Nov. 27. Class 46.

Shattuck, Frank G., Company, Boston, Mass., and New York, to Frank G. Shattuck Company, New York, N. Y. Ice-cream containers of paper. 208,209; renewed Jan. 19, 1946. O. G. Nov. 27. Class 2.

Shera, Stella, Middletown, Ohio. Ornamental figures formed from yarn, cloth, paper, etc. 418,030; Nov. 27; Serial No. 482,815; published Aug. 28, 1945. Class 40.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, finishes, paint, enamels, etc. 206,908; renewed Dec. 15, 1945. O. G. Nov. 27. Class 16.

Sherwin-Williams Company, The, Cleveland, Ohio. Doped bias tape; doped narrow bandings and strips, etc. 418,023; Nov. 27; Serial No. 482,122; published Sept. 4, 1945. Class 40.

Shulton, Inc.: *See*—
Parfumerie St. Denis.

Signaphore Company, The, Fort Wayne, Inc., to Automatic Signal Corporation, East Norwalk, Conn. Vehicle traffic electrically-operated signals. 201,797; renewed Aug. 4, 1945. O. G. Nov. 27. Class 21.

Simmons Company, New York, N. Y. Mattresses. 207,821; renewed Jan. 12, 1946. O. G. Nov. 27. Class 32.

Smart Maid Coat Co. Inc., New York, N. Y. Woolen cloth. 418,067; Nov. 27. Class 42.

Soft-Lite Lens Company, Inc.: *See*—
Optical Service Corporation.

Solomon, Millicent K., doing business as Mrs. Boardman's Food Products, Boston, Mass. Salad dressing. 417,988; Nov. 27; Serial No. 468,821; published Sept. 18, 1945. Class 46.

Southern Prison Company: *See*—
Southern Steel Company.

Southern Steel Company, to Southern Prison Company, San Antonio, Tex. Special steel, rolled in flat bars, round bars, and plates. 199,787; renewed June 16, 1945. O. G. Nov. 27. Class 14.

Spiegel, Inc., Chicago, Ill. Suitcases, brief cases, overnight bags, etc. 418,077; Nov. 27. Class 3.

Standard Underground Cable Company, Pittsburgh, Pa., to General Cable Corporation, New York, N. Y. Insulating compounds. 46,250; re-renewed Sept. 12, 1945. O. G. Nov. 27. Class 21.

Star Pin Company, The: *See*—
Sterling Pin Co., The.

Stayman, S. M., & Co., New York, N. Y. Woolens in the piece. 418,051; Nov. 27; Serial No. 484,330; published Aug. 21, 1945. Class 42.

Stelzer Bros. Inc., New York, N. Y. Belts. 418,075; Nov. 27. Class 39.

Sterling Pin Co., The, Huntington and Derby, to The Star Pin Company, Shelton, Conn. Hair-pins. 46,070; re-renewed Sept. 5, 1945. O. G. Nov. 27. Class 40.

Sterling Plastics Co., Union, N. J. Combs. 418,044; Nov. 27; Serial No. 483,501; published Aug. 21, 1945. Class 40.

Stewart-Warner Corporation, Chicago, Ill. Apparatus for applying and dispensing lubricants. 418,017; Nov. 27; Serial No. 481,252; published June 5, 1945. Class 23.

Stickney & Poor Spice Co.: *See*—
Stickney & Poor Spice Company.

Stickney & Poor Spice Company, Boston, to Stickney & Poor Spice Co., Charlestown, Boston, Mass. Mustard and spices. 48,267; re-renewed Dec. 19, 1945. O. G. Nov. 27. Class 46.

Sunnyvale Packing Co.: *See*—
Schuckl & Co., Inc.

Supex Limited, London, England. Tea, coffee, spices (for food), chocolate, and sweetmeats. 197,756; renewed April 21, 1945. O. G. Nov. 27. Class 46.

Terhune, Yeracance & Wolff, Inc., New York, N. Y. Woolen and worsted fabrics in the piece. 418,062; Nov. 27; Serial No. 485,426; published Sept. 11, 1945. Class 42.

Terhune, Yeracance & Wolff, Inc., New York, N. Y. Woolen and worsted fabrics in the piece. 418,064; Nov. 27; Serial No. 485,704; published Sept. 11, 1945. Class 42.

Traub, Lyons, Oppenheim, Inc., New York, N. Y. Piece goods of rayon, cotton, and rayon and cotton mixtures. 418,027; Nov. 27; Serial No. 482,599; published Sept. 18, 1945. Class 42.

Traudt, Frank, to Richard T. Dunn, doing business as Dr. Hoffmann Medicine Co., St. Louis, Mo. Internal remedy for colic and cholera. 45,141; re-renewed Aug. 8, 1945. O. G. Nov. 27. Class 6.

Tremont & Suffolk Mills, Lowell, to Nashua Manufacturing Company, Boston, Mass. Cotton piece goods. 49,319; re-renewed Jan. 30, 1946. O. G. Nov. 27. Class 42.

Troco Company, Chicago, Ill., to The Glidden Company, Cleveland, Ohio. Oleomargarine and a compound composed of cottonseed oil, beef stearine, water, and salt used as a shortening. 207,246; renewed Dec. 22, 1945. O. G. Nov. 27. Class 46.

Tru-Test: *See*—
Oakes & Co.
Tuppack, Carl H., doing business as The 20th Century Fertilizing Co., New York, to Carl H. Tuppack, doing business as The 20th Century Fertilizing Co., Middle Village, L. I., N. Y. Fertilizers. 203,746; renewed Sept. 22, 1945. O. G. Nov. 27. Class 10.
20th Century Fertilizing Co., The: *See*—
Tuppack, Carl H.
Underhill, G. W., doing business as G. W. Underhill & Co., Kansas City, Mo. Shoe and boot laces. 418,022; Nov. 27; Serial No. 481,928; published Aug. 28, 1945. Class 40.
Underhill, G. W., & Co.: *See*—
Underhill, G. W.
United Concrete Pipe Corporation, Los Angeles, Calif. Tuna boats. 418,069; Nov. 27. Class 19.
Vakald: *See*—
Paxton, Elisha W.
Valvoline Oil Company: *See*—
Galena-Signal Oil Company.
Vitagraph Company of America Inc., The, Brooklyn, to Warner Bros. Pictures Distributing Corporation, New York, N. Y. Motion pictures and motion-picture films. 201,656; renewed Aug. 4, 1945. O. G. Nov. 27. Class 26.
Warner Bros. Pictures Distributing Corporation: *See*—
Vitagraph Company of America Inc., The.
Webb, J. A., Belting Company, Inc., Buffalo, N. Y. Machine belting having leather and canvas plies. 204,131; renewed Oct. 6, 1945. O. G. Nov. 27. Class 35.
Wesley, Edward, & Company, Cincinnati, Ohio, to Whitehall Pharmacal Company, New York, N. Y. External remedy for treatment of the feet. 204,938; renewed Oct. 27, 1945. O. G. Nov. 27. Class 6.
Whitaker Paper Company, The, Cincinnati, Ohio, to American Writing Paper Corporation, Holyoke, Mass. Writing paper, ledger paper, and bond paper. 207,551; renewed Jan. 5, 1946. O. G. Nov. 27. Class 37.
White, Lillian, New York, N. Y. Dress shields and armhole reinforcement patches. 417,993; Nov. 27; Serial No. 470,472; published Aug. 21, 1945. Class 40.
Whitehall Pharmacal Company: *See*—
Pape, Harry W.
Wesley, Edward, & Company.
Wilson, Richard H., Maplewood, N. J. Multiple disc manipulable calculators. 418,018; Nov. 27; Serial No. 481,597; published Sept. 18, 1945. Class 26.
Wuerpel, Charles E., New Rochelle, N. Y. Powdered admixture for concrete. 418,031; Nov. 27; Serial No. 482,911; published Sept. 18, 1945. Class 12.
Wyeth Incorporated: *See*—
Deshell Laboratories, Inc.
Wyler, Alfred, New York, N. Y. Watches, cased and uncased. 418,041; Nov. 27; Serial No. 483,298; published Sept. 18, 1945. Class 27.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Leather for the uppers of shoes. Robert H. Foerderer, Incorporated. 48,510; re-renewed Jan. 2, 1946. O. G. Nov. 27.
Leather for the uppers of shoes. Robert H. Foerderer, Incorporated. 48,829; re-renewed Jan. 16, 1946. O. G. Nov. 27.
Wool, Glass. Corning Glass Works. 417,987; Nov. 27; Serial No. 468,560; published Sept. 18, 1945.

## CLASS 2

Bottles and heat-insulated receptacles, Vacuum. Aladdin Industries, Incorporated. 418,011; Nov. 27; Serial No. 480,127; published Sept. 18, 1945.
Containers of paper, Ice-cream. Frank G. Shattuck Company. 208,209; renewed Jan. 19, 1946. O. G. Nov. 27.
Envelopes formed of "cellophane" and "pliofilm" or the like, Merchandise. Ivers-Lee Company. 418,068; Nov. 27.

## CLASS 3

Belts, money bags, and purses, wallets, etc., Money. A. Schreter & Sons, Inc. 417,992; Nov. 27; Serial No 470,356; published Sept. 18, 1945.
Suitcases, brief cases, overnight bags, etc. Spiegel, Inc. 418,077; Nov. 27.
Trunks, dress trunks, cabin or steamer trunks, etc., Wardrobe. Oshkosh Trunk Company. 202,709–10; renewed Sept. 1, 1945. O. G. Nov. 27.

## CLASS 4

Composition for use as a floor cleaner. Schalk Chemical Company. 202,801; renewed Sept. 1, 1945. O. G. Nov. 27.
Soap. H. Kohnstamm & Co., Inc. 418,070; Nov. 27.
Soap. Parfait, Incorporated. 418,076; Nov. 27.
Soap and toilet soap, Laundry. F. G. Burke. 48,471; re-renewed Jan. 2, 1945. O. G. Nov. 27.
Soaps, Toilet. L. T. Piver, Inc. 207,659; renewed Jan. 5, 1946. O. G. Nov. 27.

## CLASS 6

Bluing and ammonia. Downing Taylor Company. 208,267; renewed Jan. 26, 1946. O. G. Nov. 27.
Cod-liver oil, Flavored. E. L. Patch Company. 207,668; renewed Jan. 5, 1946. O. G. Nov. 27.
Cure for headaches, colds and indigestion. Capudine Chemical Company. 45,264; re-renewed Aug. 8, 1945. O. G. Nov. 27.
Deodorant and preventive of perspiration. E. M. Davis. 208,450; renewed Feb. 2, 1946. O. G. Nov. 27.
Face powder, face creams, face packs, etc. S. H. Kress and Company. 207,674; renewed Jan. 5, 1946. O. G. Nov. 27.
Medicinal oil and agar-agar, Bottles containing a compound of. Deshell Laboratories, Inc. 204,318; renewed Oct. 13, 1945. O. G. Nov. 27.
Medicinal preparation. E. B. Jacobi. 207,571; renewed Jan. 5, 1946. O. G. Nov. 27.
Medicinal preparation. J. E. McBrady. 208,435; renewed Feb. 2, 1946. O. G. Nov. 27.
Ointment for skin diseases. M. A. Scarborough. 208,488; renewed Feb. 2, 1946. O. G. Nov. 27.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 207,709; renewed Jan. 5, 1946. O. G. Nov. 27.
Perfumes, eau de toilette, eau vegetale, etc. L. T. Piver, Inc. 207,707; renewed Jan. 5, 1946. O. G. Nov. 27.
Perfumes, toilet waters, face creams, etc. Parfumerie Rigaud, Inc. 207,447; renewed Jan. 5, 1946. O. G. Nov. 27.
Powders, face creams, toilet waters, etc., Face. Parfumerie St. Denis. 201,613; renewed Aug. 4, 1945. O. G. Nov. 27.
Preparation administered in ampul form. Marius Fraisse and Co. 208,498; renewed Feb. 2, 1946. O. G. Nov. 27.
Preparation administered in ampul form for the treatment of anaemia. Marius Fraisse and Co. 208,501; renewed Feb. 2, 1946. O. G. Nov. 27.
Preparation for the treatment of syphilis. Marius Fraisse and Co. 208,499; renewed Feb. 2, 1946. O. G. Nov. 27.
Preparation in ampul form for neurasthenia. Marius Fraisse and Co. 208,500; renewed Feb. 2, 1946. O. G. Nov. 23.
Remedy for colic and cholera, Internal. F. Traudt. 45,141; re-renewed Aug. 8, 1945. O. G. Nov. 27.
Remedy for treatment of the feet, External. Edward Wesley & Company. 204,938; renewed Oct. 27, 1945. O. G. Nov. 27.
Rouges and face powders. L. T. Piver, Inc. 208,494; renewed Feb. 2, 1946. O. G. Nov. 27.
Shampoo. H. W. Pape. 204,936; renewed Oct. 27, 1945. O. G. Nov. 27.
Shampoo and a scalp treatment. R. T. Cleary. 208,257; renewed Jan. 26, 1946. O. G. Nov. 27.
Tablets for the treatment of boils, and other forms of skin affections. E. L. Patch Company. 208,085; renewed Jan. 19, 1946. O. G. Nov. 27.

## CLASS 10

Fertilizers. C. H. Tuppack. 203,746; renewed Sept. 22, 1945. O. G. Nov. 27.

## CLASS 12

Admixture for concrete, Powdered. C. E. Wuerpel. 418,031; Nov. 27; Serial No. 482,911; published Sept. 18, 1945.

## CLASS 13

Steam-valves and water-valves. Fairbanks Co. 49,354; re-renewed Jan. 30, 1946. O. G. Nov. 27.

## CLASS 14

Steel in the form of wire, strips, bars, etc. Carpenter Steel Company. 418,071–3; Nov. 27.
Steel, rolled in flat bars, round bars and plates, Special. Southern Steel Company. 199,787; renewed June 16, 1945. O. G. Nov. 27.

## CLASS 15

Cleaner and lubricant, an oil-base liquid, Handpiece. Dental Specialty Manufacturing Co., Inc. 418,052; Nov. 27; Serial No. 484,340; published Sept. 11, 1945.
Lubricating-oils. Galena-Signal Oil Company. 49,274; re-renewed Jan. 30, 1946. O. G. Nov. 27.
Oils, Soluble. Oakite Products, Inc. 418,060; Nov. 27; Serial No. 484,967; published Sept. 11, 1945.

## CLASS 16

Paint, Semipaste. H. B. Davis Company. 207,364; renewed Dec. 29, 1945. O. G. Nov. 27.
Paints and varnishes, Ready mixed. John McQuade & Co., Inc. 418,078; Nov. 27.
Paints, finishes, paint enamels, etc. Sherwin-Williams Company. 206,908; renewed Dec. 15, 1945. O. G. Nov. 27.



## CLASS 17

Tobacco and cigarettes, Smoking. Cannon & Waller, Incorporated. 418,039; Nov. 27; Serial No. 483,256; published Sept. 18, 1945.

## CLASS 19

Bicycles. H. L. Flake. 418,074; Nov. 27.
Boats, Tuna. United Concrete Pipe Corporation. 418,069; Nov. 27.

## CLASS 21

Electrical resistance or semi-conducting material. General Electric Company. 418,008; Nov. 27; Serial No. 479,709; published Sept. 11, 1945.
Electrically-operated signals, Vehicle traffic. Signaphore Company. 201,791; renewed Aug. 4, 1945. O. G Nov. 27.
Insulating compounds. Standard Underground Cable Company. 46,250; re-renewed Sept. 12, 1945. O. G. Nov. 27.
Switches, electric rectifiers, etc., Electric rotary tap. Kneisley Electric Company. 418,010; Nov. 27; Serial No. 480,072; published Sept. 11, 1945.
Tape and wire recorders and reproducers, Magnetic. Frank Rieber, Inc. 417,997; Nov. 27; Serial No. 472,752; published Sept. 11, 1945.

## CLASS 22

Baseball bats. Hillerich & Bradsby Co. 207,480; renewed Jan. 5, 1946. O. G. Nov. 27.
Baseball game. M. C. Meyer. 417,996; Nov. 27; Serial No. 472,647; published Sept. 18, 1945.
Toy boats, toy automobiles, children's toy tea sets, etc. Banner Plastics Co. 418,013; Nov. 27; Serial No. 480,364; published Sept. 18, 1945.

## CLASS 23

Apparatus for applying and dispensing lubricants. Stewart-Warner Corporation. 418,017; Nov. 27; Serial No. 481,252; published June 5, 1945.
Apparatus for holding articles or layers of articles. W. J. Gibbs. 418,001; Nov. 27; Serial No. 475,205; published Sept. 11, 1945.
Conveyors, Gravity-operated and powered elevating. Niagara Filter Corporation. 417,989; Nov. 27; Serial No. 469,506; published Sept. 18, 1945.
Knife filing machine, beet knife straightening machines, and precise grinders, Beet. Henry Disston & Sons, Incorporated. 418,055; Nov. 27; Serial No. 484,521; published Sept. 11, 1945.
Pliers, nippers, tweezers, etc. Hammel, Riglander & Co., Inc. 418,009; Nov. 27; Serial No. 479,872; published June 5, 1945.
Presses and embossing dies and type for use therein, Embossing. Embosograf Corporation of America. 418,057; Nov. 27; Serial No. 484,675; published Sept. 11, 1945.
Saws, power chain saw sharpening machines and parts pertaining thereto, Power chain. Henry Disston & Sons, Incorporated. 418,056; Nov. 27; Serial No. 484,522; published Sept. 11, 1945.
Tools or utensils, Kitchen and household. A. & J. Manufacturing Co. 202,466–7; renewed Aug. 25, 1945. O. G. Nov. 27.
Tools, Rotary cutting. F. Hofbauer. 418,012; Nov. 27; Serial No. 480,236; published Sept. 11, 1945.

## CLASS 26

Calculators, Multiple disc manipulable. R. H. Wilson. 418,018; Nov. 27; Serial No. 481,597; published Sept. 18, 1945.
Lenses and blanks, Ophthalmic. Optical Service Corporation. 201,695; renewed Aug. 4, 1945. O. G. Nov. 27.
Lenses, Ophthalmic. Bausch & Lomb Optical Company. 418,054; Nov. 27; Serial No. 484,518; published Sept. 18, 1945.
Meters for measuring water, oil, gasoline, and other liquids, Quantity. Buffalo Meter Company. 206,252; renewed Nov. 24, 1945. O. G. Nov. 27.
Motion pictures and motion-picture films. Vitagraph Company of America, Inc. 201,656; renewed Aug. 4, 1945. O. G. Nov. 27.
Optical goods. G. M. Carson. 418,040; Nov. 27; Serial No. 483,258; published Sept. 18, 1945.

## CLASS 27

Watches, cased and uncased. A. Wyler. 418,041; Nov. 27; Serial No. 483,298; published Sept. 18, 1945.

## CLASS 28

Clips, pins, rings, etc. Eisenberg Jewelry, Inc. 418,015; Nov. 27; Serial No. 480,567; published Sept. 18, 1945.

## CLASS 29

Brooms. Amsterdam Broom Co. 208,189–93; renewed Jan. 19, 1946. O. G. Nov. 27.
Brushes, Kitchen. A. & J. Manufacturing Co. 205,325–6; renewed Nov. 3, 1945. O. G. Nov. 27.

## CLASS 30

Dinnerware, China and ceramic. Allied Stores Corporation. 417,990; Nov. 27; Serial No. 469,949; published Sept. 11, 1945.

## CLASS 32

Frames, Saddle and natural leather picture. Arel Photo Supply. 418,079; Nov. 27.
Mattresses. Simmons Company. 207,821; renewed Jan. 12, 1946. O. G. Nov. 27.

## CLASS 33

Glass, Figured and wired tempered flat. Blue Ridge Glass Corporation. 417,985; Nov. 27; Serial No. 459,531; published Sept. 11, 1945.

## CLASS 34

Heat exchangers. C. H. Leach Company. 418,065; Nov. 27.

## CLASS 35

Belting having leather and canvas plies, Machine. J. A. Webb Belting Company, Inc. 204,131; renewed Oct. 6, 1945. O. G. Nov. 27.
Rubber and rubber and fabric tires and inner tubes for automobiles and tractors, Pneumatic. Oakes & Co. 418,016; Nov. 27; Serial No. 480,618; published Sept. 18, 1945.
Tires composed of rubber and fibrous material, Pneumatic. B. F. Goodrich Company. 201,794; renewed Aug. 4, 1945. O. G. Nov. 27.
Transmission lining, Ford. Atlas Asbestos Company. 208,473; renewed Feb. 2, 1946. O. G. Nov. 27.

## CLASS 36

Pianos. Baldwin Company. 46,993; re-renewed Oct. 17, 1945. O. G. Nov. 27.
Pianos. Hamilton Organ Company. 47,072; re-renewed Oct. 24, 1945. O. G. Nov. 27.

## CLASS 37

Calendars and paper desk calendar pads, Paper desk. Agency Paper Company. 418,043; Nov. 27; Serial No. 483,414; published Sept. 18, 1945.
Lead-pencils. Eagle Pencil Company. 49,122; re-renewed Jan. 23, 1946. O. G. Nov. 27.
Paper, ledger paper, and bond paper, Writing. Whitaker Paper Company. 207,551; renewed Jan. 5, 1946. O. G. Nov. 27.
Paper, Wrapping. Nekoosa-Edwards Paper Company. 205,192; renewed Nov. 3, 1945. O. G. Nov. 27.
Stationery, specifically, boxed writing paper and envelopes. Cheerfuletters Stationery Co. 418,046; Nov. 27; Serial No. 483,885; published Sept. 18, 1945.

## CLASS 39

Belts. Stelzer Bros. Inc. 418,075; Nov. 27.
Brassières. W. S. Maas, Inc. 418,053; Nov. 27; Serial No. 484,491; published Sept. 18, 1945.
Corsets. Lily of France Corset Co. 208,343; renewed Jan. 26, 1945. O. G. Nov. 27.
Corsets, brassières, girdles, etc. American Lady Corset Co. 203,877; renewed Sept. 29, 1945. O. G. Nov. 27.
Negligees, pajamas and underwear, Women's. Dowaliby, Inc. 418,045; Nov. 27; Serial No. 483,610; published Sept. 18, 1945.
Outer shirts and dress shirts. Cluett, Peabody & Co. 49,050; re-renewed Jan. 23, 1946. O. G. Nov. 27.
Sheepskin fur coats and vests, sheepskin-lined coats and vests, woolskin-lined coats and vests, etc. Robitshek, Schneider Co. 208,170; renewed Jan. 19, 1946. O. G. Nov. 27.
Shirts, Men's sport. Fisch & Company. 418,042; Nov. 27; Serial No. 483,311; published Sept. 18, 1945.
Suits, topcoats, caps, sweaters, etc., Men's. Burkhardt Bros. Co., The. 203,006; renewed Sept. 8, 1945. O. G. Nov. 27.
Welting for boots and shoes. Barbour Welting Company of Brockton, Mass. 207,961; renewed Jan. 12, 1946. O. G. Nov. 27.

## CLASS 40

Braids, Hat and millinery. Henry Pollak, Inc. 418,026; Nov. 27; Serial No. 482,393; published Sept. 11, 1945.
Button and button tapes and snap fastener tapes. Jewel Togs, Inc. 417,991; Nov. 27; Serial No. 470,110; published Sept. 4, 1945.
Buttons, clips and clasps for the hair and for garments, and garment buckles. Jane Alexander. 418,024; Nov. 27; Serial No. 482,192; published Aug. 21, 1945.
Clips, Curl. I. Leon Company. 418,029; Nov. 27; Serial No. 482,805; published Sept. 4, 1945.
Combs. Sterling Plastics Co. 418,044; Nov. 27; Serial No. 483,501; published Aug. 21, 1945.
Figures formed from yarn, cloth, paper, etc., Ornamental. S. Shera. 418,030; Nov. 27; Serial No. 482,815; published Aug. 28, 1945.
Hair-pins. Sterling Pin Co. 46,070; re-renewed Sept. 5, 1945. O. G. Nov. 27.
Laces, Shoe and boot. G. W. Underhill. 418,022; Nov. 27; Serial No. 481,928; published Aug. 28, 1945.
Pins, Bob. Royal Hair Pin Corporation. 418,020; Nov. 27; Serial No. 481,757; published Sept. 4, 1945.
Pins, Hair. Dolly Madison Hair Pin Corp. 418,019; Nov. 27; Serial No. 481,738; published Sept. 4, 1945.
Pins, Hair. Scolding Locks Corporation. 418,047; Nov. 27; Serial No. 484,034; published Aug. 28, 1945.

Sachets or devices for use in permanent hair waving. Eugene Ltd. 202,760; renewed Sept. 1, 1945. O. G. Nov. 27.
Samplers, Needlework. P. M. Helm. 418,037; Nov. 27; Serial No. 483,111; published Sept. 11, 1945.
Shields and armhole reinforcement patches, Dress. L. White. 417,993; Nov. 27; Serial No. 470,472; published Aug. 21, 1945.
Shoulder straps for undergarments. H. Diamond. 418,006; Nov. 27; Serial No. 479,280; published Aug. 14, 1945.
Stocking reinforcements for attachment to the garter welts of the stockings. M. Katzenstein and G. Katzenstein. 418,007; Nov. 27; Serial No. 479,389; published Aug. 14, 1945.
Straps, Wrist watch. Pla-Safe Plastics Corporation. 418,021; Nov. 27; Serial No. 481,799; published Sept. 4, 1945.
Tape; doped narrow bandings and strips, etc., Doped bias. Sherwin-Williams Company. 418,023; Nov. 27; Serial No. 482,122; published Sept. 4, 1945.

CLASS 42

Bedspreads, sheets, and pillow cases. Schindel-McDaniels Co., Inc. 418,036; Nov. 27; Serial No. 483,089; published Sept. 4, 1945.
Blankets of wool. Orr Felt & Blankets Company. 418,063; Nov. 27; Serial No. 485,695; published Sept. 11, 1945.
Cotton piece goods. Tremont & Suffolk Mills. 49,319; re-renewed Jan. 30, 1946. O. G. Nov. 27.
Fabric polishing cloths, Untreated textile. Callaway Mills. 417,999; Nov. 27; Serial No. 474,573; published Sept. 4, 1945.
Fabrics, Dyed. Joseph Bancroft & Sons Co. 418,061; Nov. 27; Serial No. 485,257; published Aug. 28, 1945.
Fabrics in the piece, Textile. Crest Fabrics Corp. 418,059; Nov. 27; Serial No. 484,828; published Aug. 28, 1945.
Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. 206,159; renewed Nov. 24, 1945. O. G. Nov. 27.
Lace, Twist. A. C. Gill Limited. 418,002; Nov. 27; Serial No. 475,493; published Sept. 11, 1945.
Piece goods of cotton and of cotton and rayon. Callaway Mills. 418,000; Nov. 27; Serial No. 474,578; published Aug. 28, 1945.
Piece goods of cotton, rayon or mixtures thereof. Riverside & Dan River Cotton Mills, Inc. 418,048; Nov. 27; Serial No. 484,064; published Sept. 11, 1945.
Piece goods of rayon, cotton and rayon and cotton mixtures. Traub, Lyons, Oppenheim, Inc. 418,027; Nov. 27; Serial No. 482,599; published Sept. 18, 1945.
Piece goods of rayon, cotton, wool, silk and mixtures thereof. Reliable Textile Co., Inc. 417,994; Nov. 27; Serial No. 470,679; published Aug. 21, 1945.
Rayon fabrics in the piece. Roth Fabrics Corporation. 418,050; Nov. 27; Serial No. 484,276; published Sept. 18, 1945.
Rayon piece goods. Arthur S. Heiman, Inc. 418,033–4; Nov. 27; Serial Nos. 482,990–1; published Sept. 18, 1945.
Textile fabrics. Goldman-Rossman Corporation. 417,995; Nov. 27; Serial No. 471,032; published Aug. 21, 1945.
Textile fabrics in the piece. J. Alexander. 418,025; Nov. 27; Serial No. 482,234; published Aug. 28, 1945.
Textile fabrics in the piece. Concordia-Gallia Corp. 418,028; Nov. 27; Serial No. 482,672; published Aug. 28, 1945.
Textile fabrics, Plastic coated. Leonard Company. 418,038; Nov. 27; Serial No. 483,185; published Sept. 4, 1945.
Woolen and worsted fabrics in the piece. Terhune, Yereance & Wolff, Inc. 418,062; Nov. 27; Serial No. 485,426; published Sept. 11, 1945.
Woolen and worsted fabrics in the piece. Terhune, Yereance & Wolff, Inc. 418,064; Nov. 27; Serial No. 485,704; published Sept. 11, 1945.
Woolen and worsted piece goods, jersey piece goods, eiderdown piece goods, etc. Continental Mills, Inc. 417,986; Nov. 27; Serial No. 462,986; published Aug. 21, 1945.
Woolen cloth. Smart Maid Coat Co. Inc. 418,067; Nov. 27.
Woolen piece goods. Anglo Fabrics Company. 417,998; Nov. 27; Serial No. 474,391; published Aug. 21, 1945.
Woolens in the piece. S. M. Stayman & Co. 418,051; Nov. 27; Serial No. 484,330; published Aug. 21, 1945.

CLASS 43

Threads of all kinds. Jonathan Harris & Sons Ltd. 27,727; re-renewed Feb. 4, 1946. O. G. Nov. 27.

CLASS 44

Instrument for the treatment of sinus trouble. E. W. Paxton. 418,003; Nov. 27; Serial No. 476,817; published Sept. 18, 1945.

CLASS 46

Butter. Northwest Butter & Egg Company. 418,066; Nov. 27.
Butter and cheese. P. E. Sharpless Co. 202,886; renewed Sept. 8, 1945. O. G. Nov. 27.
Candy. W. E. Aumann. 418,049; Nov. 27; Serial No. 484,226; published Sept. 18, 1945.
Candy. H. L. Hildreth Company. 205,704; renewed Nov. 17, 1945. O. G. Nov. 27.
Candy bars. F. A. Martoccio Company. 208,545; renewed Feb. 2, 1946. O. G. Nov. 27.
Canned salmon. Alaska Salmon Company. 207,978; renewed Jan. 12, 1946. O. G. Nov. 27.
Canned soups, canned fruits, and canned vegetables, etc. Schuckl & Co., Inc. 418,014; Nov. 27; Serial No. 480,427; published Apr. 24, 1945.
Cheese. Kraft Cheese Company. 202,660; renewed Sept. 1, 1945. O. G. Nov. 27.
Citrus products. Polk Packing Association. 418,032; Nov. 27; Serial No. 482,949; published Sept. 11, 1945.
Coffee. Meyer Brothers Coffee and Spice Company. 49,002; re-renewed Jan. 16, 1946. O. G. Nov. 27.
Coffee, Roasted and ground. New Orleans Coffee Co. Ltd. 49,057; re-renewed Jan. 23, 1946. O. G. Nov. 27.
Coffee, tea, rice, and food-flavoring extracts. H. Busch & Co., Inc. 206,417; renewed Dec. 1, 1945. O. G. Nov. 27.
Dressing, Salad. M. K. Solomon. 417,988; Nov. 27; Serial No. 468,821; published Sept. 18, 1945.
Fish, food-flavoring extracts, condiments, etc., Canned. Moffett Grocer Company. 200,865; renewed July 14, 1945. O. G. Nov. 27.
Foods, frozen cooked foods, Frozen. North American Foods Incorporated. 418,004; Nov. 27; Serial No. 477,114; published Sept. 18, 1945.
Fruits and fresh vegetables, Fresh citrus. Polis & Hagan. 418,035; Nov. 27; Serial No. 483,082; published Aug. 28, 1945.
Fruits, Fresh citrus. Exeter Orchards Association. 418,005; Nov. 27; Serial No. 479,116; published Aug. 14, 1945.
Meats, Cured. George A. Hormel & Co. 48,457; re-renewed Jan. 2, 1946. O. G. Nov. 27.
Milk, Evaporated. Amboy Milk Products Co. 208,420; renewed Feb. 2, 1946. O. G. Nov. 27.
Molasses, syrups, and sorghums. New Orleans Coffee Co. Ltd. 47,529; re-renewed Nov. 7, 1945. O. G. Nov. 27.
Mustard and spices. Stickney & Poor Spice Company. 48,267; re-renewed Dec. 19, 1945. O. G. Nov. 27.
Oleomargarine and a compound composed of cottonseed oil, beef stearine, water and salt used as a shortening. Troco Company. 207,246; renewed Dec. 22, 1945. O. G. Nov. 27.
Poultry and eggs, Dressed. Peter Fox Sons Co. 200,879; renewed July 14, 1945. O. G. Nov. 27.
Poultry and eggs, Dressed. Peter Fox Sons Co. 201,881; renewed Aug. 4, 1945. O. G. Nov. 27.
Preserves, Fruit. Sears, Roebuck and Co. 204,055; renewed Oct. 6, 1945. O. G. Nov. 27.
Seeds and prepared mixtures of seeds as food for birds and fowls. E. R. Durkee & Co. 48,985; re-renewed Jan. 16, 1946. O. G. Nov. 27.
Sirup for food purposes, Pure cane. New Orleans Coffee Co., Ltd. 207,320; renewed Dec. 29, 1945. O. G. Nov. 27.
Spice. Joseph Burnett Company. 208,464; renewed Feb. 2, 1946. O. G. Nov. 27.
Spices and mustard. E. R. Durkee & Co. 48,986; re-renewed Jan. 16, 1946. O. G. Nov. 27.
Syrup for infant feeding, Carbohydrate. H. W. Kinney and Sons, Inc. 418,058; Nov. 27; Serial No. 484,787; published Sept. 18, 1945.
Syrup, molasses, and sorghum. New Orleans Coffee Co. Ltd. 45,465–7; re-renewed Aug. 22, 1945. O. G. Nov. 27.
Syrups, molasses, and sorghums. New Orleans Coffee Co. Ltd. 45,468; re-renewed Aug. 22, 1945. O. G. Nov. 27.
Tea, coffee, spices (for food), chocolate, and sweetmeats. Supex Limited. 197,756; renewed Apr. 21, 1945. O. G. Nov. 27.

CLASS 48

Beer. John Eichler Brewing Company. 48,728; re-renewed Jan. 9, 1946. O. G. Nov. 27.
Beverage, Cereal malt. New England Brewing Co. 208,232; renewed Jan. 19, 1946. O. G. Nov. 27.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bendix Aviation Corporation: *See*—
Stuart, Alfred A., Jr., assignor.
Fern, Jules C., et al.: *See*—
Fern, Oscar, assignor.
Fern, Oscar, assignor to J. C. Fern, H. Sobel, and O. Fern, co-partners doing business as Fern Shoe Co., Los Angeles, Calif. Shoe and making same. Re. 22,695; Nov. 27.
Fern Shoe Co.: *See*—
Fern, Oscar.
Frischer, Herman, New York, N. Y. Loosely dumped filling body. Re. 22,696; Nov. 27.
Manaster, Ben B., Chicago, Ill. Collar stay. Re. 22,698; Nov. 27.
McEachern, Irvin D., Petersburg, Tex. Ensilage harvester. Re. 22,697; Nov. 27.
Sobel, Harry, et al.: *See*—
Fern, Oscar, assignor.
Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Magnetic compass. Re. 22,699; Nov. 27.

# LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc.: *See*—
Graham, Melville M., assignor.
Graham, Melville M., La Habra, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Avocado tree. 662; Nov. 27.

# LIST OF DESIGN PATENTEES

Adel Precision Products Corp.: *See*—
Storm, Frederick K., assignor.
Andersmith Company: *See*—
Bruneau, A. J., and Goldsmith, assignors.
Apex Electrical Manufacturing Co., The: *See*—
Chapman, David, assignor.
Archer, Harvey G., Jr., Boonton, N. J. Spatter proof browning lid. 142,977; Nov. 27.
Bastien, Ralph G., Minneapolis, Minn. Combination knife. 142,978; Nov. 27.
Beltz, Carl D., Latrobe, Pa. Candle holder. 142,979; Nov. 27.
Bery, Brij O. T., London, England. Nipple for nursing bottles. 142,980; Nov. 27.
Blackburn, Wellington E., Albuquerque, N. Mex. Pendant. 142,981; Nov. 27.
Bloomfield, Samuel, Wichita, Kans., assignor to C. E. Hovey, Kansas City, Mo., as trustee. Lever type screw driver. 142,982; Nov. 27.
Braaen, Daniel R., assignor to Mark Cross Company, New York, N. Y. Bottle cap. 142,983; Nov. 27.
Brown, John W., Los Angeles, Calif. Display frame. 142,984; Nov. 27.
Brown, John W., Los Angeles, Calif. Display frame. 142,985; Nov. 27.
Brunean, Albert J., and M. Goldsmith, assignors to Andersmith Company, Montreal, Quebec, Canada, a partnership. Pocket lighter. 142,986; Nov. 27.
Canal National Bank of Portland, The: *See*—
Shepard, Ernest L., assignor.
Chapman, David, Chicago, Ill., assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Vacuum cleaner tank or the like. 142,987; Nov. 27.
Coveleski, Frank, Newark, N. J. Picture frame. 142,988; Nov. 27.
Crane Co.: *See*—
Dreyfuss, Henry, assignor.
Curry, Arthur V., San Francisco, Calif. Tray. 142,989; Nov. 27.
Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 142,990; Nov. 27.
Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 142,991; Nov. 27.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago, Ill. Spray head or the like. 142,992; Nov. 27.
Electric Household Utilities Corporation: *See*—
Gerhardt, A. H., and Schulz, assignors.
Ewing, Ralph C., New York, N. Y. Handbag frame or similar article. 142,993; Nov. 27.
Ewing, Ralph C., New York, N. Y. Handbag frame or similar article. 142,994; Nov. 27.
Ewing, Ralph C., New York, N. Y. Handbag frame or similar article. 142,995; Nov. 27.
Forman, Mack M., Providence, R. I., assignor to Marathon Company. Box for children's jewelry. 142,996; Nov. 27.
Fuller, Daniel B., New York, N. Y. Textile fabric. 142,997; Nov. 27.
Gerhardt, Andrew H., Skokie, and A. P. Schulz, Hinsdale, assignors to Electric Household Utilities Corporation, Chicago, Ill. Washing machine. 142,998; Nov. 27.
Gilbert, Henry, North Hollywood, assignor to Mission Hosiery Mills, Los Angeles, Calif. Perfume bottle. 142,999; Nov. 27.
Golden, Zelma, New York, N. Y. Dress. 143,000; Nov. 27.
Goldsmith, Michael D.: *See*—
Worth, H., and Goldsmith.
Goldsmith, Morris: *See*—
Bruneau, A. J., and Goldsmith.
Guglielmi, Victor, Leonia, N. J. Flexible band for a bracelet or similar article. 143,001; Nov. 27.
Hartnett, Paul L., Leominster, Mass. Drape festoon. 143,002; Nov. 27.
Holland, Albert, Lansing, Mich. Grate. 143,003; Nov. 27.
Hopkins, Kenneth A.: *See*—
Walker, G. W., and Hopkins.
Hovey, Earl C.: *See*—
Bloomfield, Samuel, assignor.
Hunter, Edgar H., Cambridge, Mass. Table. 143,004; Nov. 27.
Hunter, Edgar H., Cambridge, Mass. Chair. 143,005; Nov. 27.
Hydraulic Development Corporation, Inc., The: *See*—
Lindsey, Robert J., assignor.
Keene, Walter E., Baltimore, Md. Lighter. 143,006; Nov. 27.
Kissling, Edmund D., New York, N. Y. Picture frame or the like. 143,007; Nov. 27.
Laplant-Choate Manufacturing Co., Inc.: *See*—
Rockwell, Harvey W., assignor.
Layton, William W., Columbus, Ohio. Combination photo mount and compartment or article of similar nature. 143,008; Nov. 27.
Lindsey, Robert J., assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio. Casting machine. 143,009; Nov. 27.
Lucien Lelong, Inc.: *See*—
Norman, Emile, assignor.
Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,010; Nov. 27.
Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,011; Nov. 27.
Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,012; Nov. 27.
Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,013; Nov. 27.
Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,014; Nov. 27.

Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,015; Nov. 27.

Maibach, John J., assignor to J. W. Valentine Company, Inc., New York, N. Y. Bedspread or the like. 143,016; Nov. 27.

Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoking stand. 143,017; Nov. 27.

Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Combined smoking stand and serving tray. 143,018; Nov. 27.

Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoker's stand. 143,019; Nov. 27.

Marathon Company: *See*—
Forman, Mack M., assignor.

Mark Cross Company: *See*—
Brauen, Daniel R., assignor.

Melford, Winnifred, Los Angeles, Calif. Combined coat hanger and jewel container. 143,020; Nov. 27.

Mission Hosiery Mills: *See*—
Gilbert, Henry, assignor.

Mullins Manufacturing Corporation: *See*—
Stanitz, Jacques, assignor.

Murphy, James T., Boston, Mass. Cigarette rest and extinguisher. 143,021; Nov. 27.

National Lock Company: *See*—
North, Edwin W., assignor.

Norman, Emile, El Monte, Calif., assignor to Lucien Lelond, Inc., Chicago, Ill. Lipstick holder or the like. 143,022; Nov. 27.

North, Edwin M., assignor to National Lock Company, Rockford, Ill. Oven door handle. 143,023; Nov. 27.

Olin, Maurice E., Vancouver, Wash. Smoker stand. 143,024; Nov. 27.

Pileggi, Vincent R., Philadelphia, Pa. Combined saw and rule. 143,025; Nov. 27.

Pugh, Merlin L., Minneapolis, Minn. Control and instrument panel for battery chargers or similar article. 143,026; Nov. 27.

Pugh, Merlin L., Minneapolis, Minn. Battery charger or similar article. 143,027; Nov. 27.

Reynolds Metals Company: *See*—
Reynolds, Richard S., assignor.

Reynolds, Richard S., assignor to Reynolds Metals Company, Richmond, Va. Handle for pots and pans. 143,028; Nov. 27.

Rockwell, Harvey W., assignor to Laplant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Hoist control unit. 143,029; Nov. 27.

Rubel, John, New York, N. Y. Pendant. 143,030; Nov. 27.

Rubel, John, New York, N. Y. Pendant. 143,031; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,032; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,033; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,034; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,035; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,036; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,037; Nov. 27.

Rubenstein, Albert, Washington, D. C. Garden marker. 143,038; Nov. 27.

Schulz, Arthur P.: *See*—
Gerhardt, A. H., and Schulz.

Seamon, Louis, Brooklyn, N. Y. Billfold. 143,040; Nov. 27.

Seamon, Louis, Brooklyn, N. Y. Billfold. 143,041; Nov. 27.

Shanfield, Joseph D., Leaside, Ontario, Canada. Door stop. 143,039; Nov. 27.

Shepard, Ernest L., Fairfield, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine. Packing sheet for fragile articles. 143,042; Nov. 27.

Smokador Manufacturing Co., Inc.: *See*—
Mankki, Onnie, assignor.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Wall cabinet. 143,043; Nov. 27.

Steelman, James S., Millville, N. J. Bottle or similar article. 143,044; Nov. 27.

Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Kitchen fork. 143,045; Nov. 27.

Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Serving fork. 143,046; Nov. 27.

Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Skimming spoon. 143,047; Nov. 27.

Valentine, J. W., Company, Inc.: *See*—
Maibach, John J., assignor.

Victor Metal Products Corporation: *See*—
Derham, Philip A., assignor.

Waldinger, Maurice J., Flushing, N. Y. Mechanical pencil. 143,048; Nov. 27.

Waldinger, Maurice J., Flushing, N. Y. Mechanical pencil. 143,049; Nov. 27.

Waldinger, Maurice J., Flushing, N. Y. Mechanical pencil. 143,050; Nov. 27.

Waldinger, Maurice J., Flushing, N. Y. Fountain pen. 143,051; Nov. 27.

Waldinger, Maurice J., Flushing, N. Y. Fountain pen. 143,052; Nov. 27.

Waldinger, Maurice J., Flushing, N. Y. Fountain pen. 143,053; Nov. 27.

Walker, George W., Pleasant Ridge, and K. A. Hopkins, Pontiac, Mich. Toaster or similar article. 143,054; Nov. 27.

Weston, Alexander S., New York, N. Y. Fluted cigar and cigarette lighter or similar article. 143,055; Nov. 27.

Wolf, Semon, New York, N. Y. Slip. 143,056; Nov. 27.

Worth, Henry, and M. D. Goldsmith, New York City, N. Y. Bottle. 143,057; Nov. 27.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acker, Albert J., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Dolly. 2,389,584; Nov. 27.

Adel Precision Products Corp.: *See*—
Van Der Werff, Jacob B., assignor.

Advance Solvents & Chemical Corporation: *See*—
Mack, Gerry P., assignor.

Air Reduction Company, Incorporated: *See*—
Anderson, James L., assignor.

Alien Property Custodian: *See*—
Caro, M., and Lambert.
Mennesson, Marcel L.

Allen, Earle F., Wellesley Hills, Mass., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Valve. 2,389,947; Nov. 27.

Allied Railway Equipment Company: *See*—
Douglass, K., and Moline, assignors.

Allis-Chalmers Manufacturing Company: *See*—
Babb, Charles L., assignor.

Alm, Alexander V.: *See*—
Mills, C. F., and Alm.

American Car and Foundry Company: *See*—
Kerr, W., and Stolberg, assignors.

American Cyanamid Company: *See*—
Davis, Arnold R., assignor.
Dean, Russell T., assignor.
Ericks, W. P., and Whitaker, assignors.
Herkenhoff, Earl C., assignor.
Nolan, Kenneth G., assignor.

American Houses, Inc.: *See*—
McLaughlin, Robert W., Jr., assignor.

American Locomotive Company: *See*—
Bruce, Alfred W., assignor.
Gunter, Addison Y., assignor.

American Optical Company: *See*—
Jarrett, Tracy C., assignor.
Severy, Lawrence A., assignor.

American Steel and Wire Company, The: *See*—
Johnson, H. O., and O'Hare, assignors.
Symmes, Daniel D., assignor.

American Steel and Wire Company of New Jersey, The: *See*—
Brickman, Alan E., assignor.
Thompson, William, assignor.

Anders, Frederick W., Danville, Ill. Mechanical action. 2,389,709; Nov. 27.

Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Plate cutting or welding machine. 2,389,585; Nov. 27.

Anderson, Martin E., assignor to The Bristol Company, Waterbury, Conn. Method and apparatus for straightening blanks. 2,389,885; Nov. 27.

Andrews, Bernard R., Braintree, Mass. Drying apparatus. 2,389,586; Nov. 27.

Anglo-Iranian Oil Company Limited: *See*—
Fawcett, E. W. M., and Narracott, assignors.

Appleman, Theodore C., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,389,587; Nov. 27.

Archbold-Hagner Instrument Laboratory: *See*—
Hagner, Frederick H., assignor.

Arisman, Mervin B.: *See*—
Turner, B. S., Arisman, and Veatch.

Arma Engineering Co., Inc.: *See*—
Macomber, James K., assignor.

Armentrout, Arthur L., Long Beach, Calif. Jarring tool 2,389,710; Nov. 27.

Armentrout, Arthur L., Long Beach, Calif. Well jar. 2,389,711; Nov. 27.

Armstrong Cork Company: *See*—
Berger, John L., assignor.
Wisler, John J., assignor.

Arter, Jakob, Mannedorf, Switzerland. Friction wheel change speed gear. 2,389,589; Nov. 27.

Artigue, Marius, Geneva, Switzerland. Scaffold clamp. 2,389,751; Nov. 27.

Ash, Charles S., Milford, Mich. Vehicle axle. 2,389,712; Nov. 27.

Atlantic Research Associates, Inc.: *See*—
Atwood, Francis C., assignor.

Atwell, Harold V., Beacon, assignor to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,389,713; Nov. 27.

Atwood, Francis C., assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Protein sheet material and making the same. 2,389,605; Nov. 27.

Automatic Electric Laboratories, Inc.: *See*—
Herrick, Roswell H., assignor.

"Automatic" Sprinkler Company of America: *See*—
Rider, Harry N., assignor.

Avery, Dallas B., Capac, Mich. Semitrailer steering mechanism. 2,389,752; Nov. 27.

Babb, Charles L., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. High pressure centrifugal pump. 2,389,753; Nov. 27.

Babcock & Wilcox Company, The: *See*—
Ebersole, George B., assignor.

Backlin, Carl: *See*—
Schwabe, Joseph L., Jr., assignor.

Baer, Howard E., Garfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Aircraft protective system. 2,389,754; Nov. 27.

Bailey Meter Company: *See*—
Johnson, Clarence, assignor.

Baker, Bert F.: *See*—
Knox, H A., and Baker.

Baker, Erwin G., Indianapolis, Ind. Engine fuel gasifier. 2,389,714; Nov. 27.

Baker, George S., Chicago, Ill. Permanent wave solutions. 2,389,755; Nov. 27.

Baldwin Locomotive Works, The: *See*—
Ruge, Arthur C., assignor.

Ballard, Kermit H.: *See*—
Deyrup, A. J., and Ballard.

Barber-Colman Company: *See*—
Ransome, Stafford M., assignor.

Bardega, Joseph, Detroit, Mich. Universal rotary drive lock. 2,389,886; Nov. 27.

Barnes Drill Co.: *See*—
Johnson, Albert M., assignor.

Barro & Stroud, Limited: *See*—
Macgill, Charles D., assignor.

Bartels, Arnold H., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Frequency comparison apparatus. 2,389,948; Nov. 27.

Baxter, Benjamin, and S. M. Kandarian, Fowler, Calif. Valve unit. 2,389,887; Nov. 27.

Beardsley, Orrin C., Seattle, Wash. Apparatus for removing dust from feathers. 2,389,715; Nov. 27.

Beatty, Floyd A., Pittsburgh, assignor to Treadwell Engineering Company, Easton, Pa. Mill. 2,389,888; Nov. 27.

Becker, Harry W., Chicago, Ill., assignor to Electronic Sound Engineering Company. Signal reproducing apparatus. 2,389,949; Nov. 27.

Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve translating apparatus and operating the same. 2,389,889; Nov. 27.

Beech, Fred J., Battle Creek, Mich. Gripping device. 2,389,756; Nov. 27.

Bell Aircraft Corporation: *See*—
Trotter, John C., assignor.

Bell Laboratories, Incorporated: *See*—
Kleimack, J. L., and Pearson, assignors.

Bendix Aviation Corporation: *See*—
Baer, Howard E., assignor.
Gilbert, Samuel, assignor.
Goepfrich, Rudolph A., assignor.
House, Bryan E., assignor.
MacNeil, C. I., and Mock, assignors.
Pond, W. B., and Holt, assignors.
Pontius, George W., III, assignor.
Pontius, G. W., III, and Reek, assignors.
Winkler, A. H., and Gore, assignors.

Berger, John L., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Molded inlaid linoleum manufacture. 2,389,836; Nov. 27.

Bickel, Clifford A., assignor to The Monarch Machine Tool Co., Sidney, Ohio. Apparatus for operating lathes. 2,389,757; Nov. 27.

Bittermann, Ferdinand J., Wheaton, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Forming metallic bands. 2,389,758; Nov. 27.

Blank, Frank F.: *See*—
Blank, R. H. and F. F.

Blank, Rudolph H. and F. F., Walcott, Iowa. Portable conveyer and loader. 2,389,759; Nov. 27.

Bliss, E. W., Company: *See*—
Rode, F. J., and Hatch, assignors.

Bogin, Charles, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Alkyd resin coating compositions. 2,389,837; Nov. 27.

Boisseau, Alexander C.: *See*—
Thumim, C., Frank, and Boisseau.

Borah, John E., Penn Township, St. Joseph County, Ind. Container. 2,389,890; Nov. 27.

Borregard, Erest, assignor to Fuller Displays, Inc., Long Island City, N. Y. Advertising display. 2,389,606; Nov. 27.

Bowles, Vernon O.: *See*—
Schutte, A. H., and Bowles.

Bowling Patents Management Corporation: *See*—
Schmidt, Gottfried J., assignor.

Brainard Steel Corporation, The: *See*—
Schindler, Frank S., assignor.
Brassert, H. A., & Company: *See*—
Ramseyer, Charles F., assignor.
Bremner, John G. M., R. H. Stanley, D. G. Jones, and A. W. C. Taylor, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of di-carboxylic acids. 2,389,950; Nov. 27.
Brickman, Alan E., New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey. Broomed stranded wire structure and method and apparatus for making the same. 2,389,951; Nov. 27.
Brierley, Walter, Gloucester, England, assignor to Rotol Limited. Airscrew. 2,389,760; Nov. 27.
Brinkmann, Guenther, assignor to Ex-Cell-O Corporation, Detroit, Mich. Thread grinding machine. 2,389,590; Nov. 27.
Bristol Aeroplane Company Limited, The: *See*—
Fedden, A. H. R., Owner, Thomas, and Mansell, assignors.
Bristol Company, The: *See*—
Anderson, Martin E., assignor.
Britton, Edgar C., H. S. Nutting, and M. E. Huscher, assignors to The Dow Chemical Company, Midland, Mich. Preparation of alkenyl cyanides. 2,389,607; Nov. 27.
Bromberg, Alfred W., Gary, Ind. Scaling stainless steel. 2,389,838; Nov. 27.
Brougham, Frank O.: *See*—
Stone, R. K., and Brougham.
Brown, John J., Newton Falls, assignor to Denman Tire and Rubber Company, Warren, Ohio. Box picker and the manufacture of the same. 2,389,952; Nov. 27.
Brown, Le Roy O., assignor to Justrite Manufacturing Company, Chicago, Ill. Color illuminator for flashlights. 2,389,591; Nov. 27.
Brown, Thomas E., Shreveport, La. Heating unit. 2,389,839; Nov. 27.
Brubaker, William H.: *See*—
Schellin, J. C., Housekeeper, and Brubaker.
Bruce, Alfred W., assignor to American Locomotive Company, New York, N. Y. Snubber. 2,389,840; Nov. 27.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Carboxy-substituted pimelic acids. 2,390,024; Nov. 27.
Bucklen, Herbert E., Jr., Elkhart, Ind., and U. C. Hedin, Des Moines, Iowa; said Hedin assignor to said Bucklen, Jr. Relay structure. 2,389,592; Nov. 27.
Budd, Edward G., Manufacturing Co.: *See*—
Dalton, Nelson W., assignor.
Budd Wheel Company: *See*—
Eksergian, C. L., and Temple, assignors.
Budden, Edgar L., Richmond Hill, and W. C. Wieking, Woodhaven, assignors to R. Hoe & Co., Inc., New York, N. Y. Method and mechanism for controlling the operation of printing machines. 2,389,891; Nov. 27.
Burgeni, Alfred, East Orange, N. J. Container closure. 2,389,761; Nov. 27.
Burgerstein, Lothar, Rapperswil, Switzerland. Drum brake for use in general engineering. 2,389,953; Nov. 27.
Burgess Battery Company: *See*—
MacFarland, Allison M., assignor.
Burgess, Everett H.: *See*—
Lehane, T. J., and Burgess.
Burgess-Manning Company: *See*—
Leadbetter, Ralph L., assignor.
Burke, William F., assignor to The McBee Company, Athens, Ohio. Auxiliary lighting fixture. 2,389,762; Nov. 27.
Burns, Clyde A., Corpus Christi, Tex. Watchcase wrench. 2,389,954; Nov. 27.
Buxton, Loran O., Belleville, assignor to National Oil Products Company, Harrison, N. J. Producing fat-soluble vitamin concentrates. 2,389,955; Nov. 27.
Cabin Crafts: *See*—
Kile, Jess S., assignor.
Cadieux, Arthur H., Granby, Quebec, Canada. Window shade attachment. 2,389,593; Nov. 27.
Cahn, Frank J., assignor to The Emulsol Corporation, Chicago, Ill. Separation of mineral values from ores. 2,389,763; Nov. 27.
Caldwell, Samuel H., Belmont, and J. J. Jaeger, Cambridge, Mass., and R. Taylor, Great Neck, N. Y., assignors to Niles-Bement-Pond Company, Hartford, Conn. Electric control for machine tools. 2,389,594; Nov. 27.
California Fruit Growers Exchange: *See*—
Cole, Gordon M., assignor.
Calva, Jose R., St. Paul, Minn. Lubricating and penetrating oil. 2,389,608; Nov. 27.
Campbell, A. S., Co., Inc.: *See*—
Davis, Hubert E., assignor.
Carlson, George C., Chicago, Ill. Savings bank. 2,389,716; Nov. 27.
Carnegie-Illinois Steel Corporation: *See*—
Wyche, Ernest H., assignor.
Caro, Martin, and G. Lambet, Brussels, Belgium; vested in the Alien Property Custodian. Racquet stringing machine. 2,389,609; Nov. 27.
Carter, Otis L., and T. A. Putnam, Greenville, S. C. Plastic picker stick. 2,389,595; Nov. 27.
Castilonia, Albert T., Yonkers, N. Y. Venetian blind. 2,389,956; Nov. 27.
Castle, Boyd F., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Oil burner. 2,389,892; Nov. 27.
Celanese Corporation of America: *See*—
Wylde, J. R., and Perry, assignors.
Chard, Lodge Y.: *See*—
Chard, Telford L., assignor.
Chard, Telford L., Indianapolis, assignor of one-half to L. Y. Chard, New Castle, Ind. Oscillatory engine. 2,389,764; Nov. 27.
Charnas, Benjamin, Forest Hills, and A. Malina, New York, N. Y. Kit for toilet purposes. 2,389,596; Nov. 27.
Chemical Process Company: *See*—
Mills, G. F., and Alm, assignors.
Cherry-Burrell Corporation: *See*—
Lippold, Adolph J., assignor.
Chicago Pneumatic Tool Company: *See*—
Fischer, Howard R., assignor.
Chicago Telephone Supply Company: *See*—
Turner, B. S., Arisman, and Veatch, assignors.
Christenson, Trace S., Jr., Detroit, Mich. Knob adapter. 2,389,610; Nov. 27.
Chubb, Melvin F., and P. F. Ebert, Joplin, Mo., assignors to The Eagle-Picher Company, Cincinnati, Ohio. Drying formed battery plates. 2,389,893; Nov. 27.
Chubb, Melvin F., and P. F. Ebert, Joplin, Mo., assignors to The Eagle-Picher Company, Cincinnati, Ohio. Dry charged accumulator plate. 2,389,894; Nov. 27.
Ciprlani, Chester, and C. J. Eaton, Toledo, Ohio. Spark plug. 2,389,597; Nov. 27.
Cities Service Oil Company: *See*—
Morgan, John D., assignor.
Morgan, J. D., and Levitt, assignors.
Morgan, J. D., and Lowe, assignors.
Clark, Avery A., Denver, Colo., and H. W. Hooper, Scottsbluff, Nebr., assignors to The Great Western Sugar Company, Denver, Colo. Separating apparatus. 2,389,611; Nov. 27.
Cleveland Metal Hardening Company, The: *See*—
Kuhns, Ernest L., assignor.
Cleven, Oluf L., Washington, D. C., and L. A. Wilson, Riva, Md. Filing receptacle. 2,389,612; Nov. 27.
Cochran, Clyde E., Cleveland, Ohio, assignor to The Elwell-Parker Electric Company. Preventing the unauthorized operation of industrial trucks and the like. 2,389,765; Nov. 27.
Coe, Jerome T.: *See*—
Reed, C. E. and Coe.
Cohen, May M.: *See*—
Cohen, Meyer, assignor.
Cohen, Meyer, assignor to M. M. Cohen, Forest Hills, N. Y. Holder. 2,389,717; Nov. 27.
Cole, Gordon M., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Production of calcium citrate. 2,389,766; Nov. 27.
Colley, Russell S., Kent, and C. P. Krupp, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Detachable junction box for inflatable suits. 2,389,895; Nov. 27.
Commercial Solvents Corporation: *See*—
Bogin, Charles, assignor.
Johnson, Harold G., assignor.
Senkus, Murray, assignor.
Conant, David J., Cleveland Heights, assignor to Jack & Heintz, Inc., Bedford, Ohio. Fluid coupling. 2,389,841; Nov. 27.
Control Instrument Company, Inc.: *See*—
Stenhammer, Harold T., assignor.
Corning Glass Works: *See*—
McGregor, R. R., and Warrick, assignors.
Cox, Claude E., Detroit, Mich. Flowmeter. 2,389,957; Nov. 27.
Coyne & Delany Company: *See*—
Delany, John J., assignor.
Crawford, John W. C., Frodsham, via Warrington, and A. D. Jones, Widnes, England, assignors to Imperial Chemical Industries Limited. Recovery of polymeric materials. 2,389,958; Nov. 27.
Crompton & Knowles Loom Works: *See*—
Turner, Richard G., assignor.
Cummins, William H., Portland, Oreg. Gauge for use in welding. 2,389,842; Nov. 27.
Curtis & Marble Machine Company: *See*—
Marble, George E., assignor.
D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Modified alkyd resin varnishes. 2,389,896; Nov. 27.
Dalton, Nelson W., Moorestown, N. J., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Structural frame. 2,389,767; Nov. 27.
Dana, Stanley, Corp.: *See*—
York, Ernest E., assignor.
Davis, Arnold R., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Disubstituted dithiophosphates. 2,389,718; Nov. 27.
Davis, Arnold R., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Vulcanization with diaryl guanidine addition products. 2,390,036; Nov. 27.
Davis, Hubert E., Boston, assignor to A. S. Campbell Co., Inc., East Boston, Mass. Mounting for license plate frames or the like. 2,389,897; Nov. 27.
Davison Chemical Corporation, The: *See*—
Gabeler, William H., assignor.
Dawson, Oliver H., Bayton, Tex., assignor to Standard Oil Development Company. Production of tertiary paraffins. 2,389,598; Nov. 27.





Dean, Russell T., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Plasticized compositions. 2,389,959; Nov. 27.
De Anthony, Robert P., Dayton, Ohio. Polyphase protective system. 2,389,613; Nov. 27.
De Cota, Emri J., Larkspur, Calif. Steam generator. 2,389,898; Nov. 27.
Deddo, Leonard, Chicago, Ill. Building structure. 2,389,899; Nov. 27.
De Fonseca, Max C., Cascais, Portugal. Apparatus for the multiplication of images of a body. 2,389,843; Nov. 27.
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Mounting for explosionproof motors. 2,389,900; Nov. 27.
Delany, John J., Brooklyn, assignor to Coyne & Delany Company, New York, N. Y. Swing spout mixing faucet. 2,389,599; Nov. 27.
Denman Tire and Rubber Company: *See*—
Brown, John J., assignor.
De Seversky, Alexander P., New York, N. Y. Life boat for airplanes. 2,389,600; Nov. 27.
De Vry Corporation: *See*—
Ress, Thomas I., assignor.
De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Receptacle and making it. 2,389,601; Nov. 27.
Dextone Company, The: *See*—
Falco, Louis A., assignor.
Deyrup, Alden J., Westfield, and K. H. Ballard, Perth Amboy, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of electrical capacitors. 2,390,025; Nov. 27.
Diebold, Incorporated: *See*—
Miller, Karl H., assignor.
Dileo, Dominick, Utica, N. Y. Fishing line reel. 2,389,602; Nov. 27.
Dinsley, Alfred, La Canada, Calif. Shark repellent. 2,389,719; Nov. 27.
Ditto, Incorporated: *See*—
Gibson, J. L., and Peterson, assignors.
Hess, Arthur L., assignor.
Dobfemysl, Josef, London S. W. 15, England. Automatic gun. 2,389,960; Nov. 27.
Dodge, Adiel Y., Rockford, Ill. One-way clutch. 2,389,961; Nov. 27.
Dollinger Corporation: *See*—
Dollinger, Lewis L., assignor.
Dollinger, Lewis L., assignor to Dollinger Corporation, Rochester, N. Y. Flow indicator. 2,389,603; Nov. 27.
Dominion Foundries & Steel Employees' Savings and Profit Sharing Fund: *See*—
Sherman, Clifton W.
Dominion Foundries & Steel Limited, et al.: *See*—
Sherman, Clifton W., assignor.
Dougherty, Lemuel E., Miami, Fla. Hydraulic remote control system. 2,389,962; Nov. 27.
Dougherty, Lemuel E., Miami, Fla. Hydraulic remote control system. 2,389,963; Nov. 27.
Douglass, Kingman, Lake Forest, and C. R. Moline, Homewood, Ill., assignors to Allied Railway Equipment Company, Railway truck. 2,389,614; Nov. 27.
Dow Chemical Company, The: *See*—
Britton, E. C., Nutting, and Huscher, assignors.
Hunter, Melvin J., assignor.
Wiley, Ralph M., assignor.
Dowding, Leonard F., Eastchester, assignor to The Texas Company, New York, N. Y. Temperature control for hydrocarbon oil processing. 2,389,604; Nov. 27.
Drane, Phillips B., Tulsa, Okla. Diaphragm operated valve. 2,389,720; Nov. 27.
Du Pont, E. I., de Nemours & Company: *See*—
Deyrup, A. J., and Ballard, assignors.
Fisher, N. G., and Wiley, assignors.
Lazier, Wilbur A., assignor.
Martin, Elmore L., assignor.
Nebel, Walter, assignor.
Wende, Charles W. J., assignor.
Zolad, John J., assignor.
Durso, John P., Rochester, N. Y. Simulated patch pocket. 2,389,721; Nov. 27.
Eagle-Picher Company, The: *See*—
Chubb, M. F., and Ebert, assignors.
Eaton, Carl J.: *See*—
Ciprlani, C., and Eaton.
Ebersole, George B., Akron, Ohio, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Pulverizer. 2,389,844; Nov. 27.
Ebert, Percy F.: *See*—
Chubb, M. F., and Ebert.
Eckel, Oliver C., Cambridge, Mass. Clip. 2,389,964; Nov. 27.
Eckel, Oliver C., Cambridge, Mass. Clip. 2,389,965; Nov. 27.
Eder, James P., New York, N. Y. Anemometer. 2,389,615; Nov. 27.
Egry Register Company, The: *See*—
Pfeiffer, William C., assignor.
Wyrick, Clayton E., assignor.
Eksergian, Carolus L., Detroit, and R. B. Temple, Grosse Pointe Park, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Tank tread. 2,389,722; Nov. 27.
Electric Auto-Lite Company, The: *See*—
Wetzel, Fred H., assignor.
Electronic Sound Engineering Company: *See*—
Becker, Harry W., assignor.
Elwell-Parker Electric Company, The: *See*—
Cochran, Clyde E., assignor.
Emulsol Corporation, The: *See*—
Cahn, Frank J., assignor.
Engineering Laboratories, Incorporated: *See*—
Swift, Lawrence M., assignor.
Ericks, Walter P., Stamford, Conn., and M. C. Whitaker, assignors to American Cyanamid Company, New York, N. Y. Guanidine condensation products and derivatives thereof. 2,389,723; Nov. 27.
Erickson, Ewald, Watertown, Minn., assignor to Hercules Powder Company, Wilmington, Del. Distributor. 2,389,845; Nov. 27.
Erickson, Helmer E.: *See*—
Talboys, H. H., and Erickson.
Erickson, John A., Jackson, Mich. Mixed material separator. 2,389,966; Nov. 27.
Ericson, George R., St. Louis, Mo. High velocity projectile. 2,389,846; Nov. 27.
Erland af Kleen, Nils, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J. Refrigerating apparatus. 2,389,967; Nov. 27.
Erland af Kleen, Nils, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken. Refrigeration. 2,389,968; Nov. 27.
Etten, Nicholas L., Waterloo, Iowa. Pivotal frame wringer. 2,389,768; Nov. 27.
Ex-Cell-O Corporation: *See*—
Brinkmann, Guenther, assignor.
Fadeley, Gilbert M., Struthers, Ohio. Electrode holder. 2,389,969; Nov. 27.
Fairey Aviation Company Limited, The: *See*—
Forsyth, Archibald G., assignor.
Falco, Louis A., New Haven, Conn., assignor to The Dextone Company. Shower stall. 2,389,724; Nov. 27.
Faris, Harold P., Philadelphia, Pa., and J. E. White, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich. Making cemented pile carpet. 2,389,657; Nov. 27.
Farnsworth Television and Radio Corporation: *See*—
Bartels, Arnold H., assignor.
Huffnagle, George W., assignor.
Mayle, Louis F., assignor.
Fasce, Egi V., and L. E. Pirkle, Baton Rouge, La., assignors, by mesne assignments, to Jasco, Incorporated. Extraction of butadiene. 2,389,658; Nov. 27.
Fawcett, Eric W. M., and E. S. Narracott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Processing of hydrocarbons. 2,389,659; Nov. 27.
Fawcett, Eric W. M., and E. S. Narracott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Isomerization process. 2,389,660; Nov. 27.
Fedden, Alfred H. R., and F. M. Owner, Bristol, England; F. M. Thomas, North Adams, Mass., and S. W. Mansell, assignors to The Bristol Aeroplape Company Limited, Bristol, England. Power plant for aircraft. 2,389,778; Nov. 27.
Ferguson, Albert C., Jacksonville, Fla. Cool shade awning. 2,389,970; Nov. 27.
Fetterolf, Luther D.: *See*—
Wagner, I. D., Fetterolf, Waring, and Mahler.
Fischer, Howard R., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Compression riveter. 2,389,661; Nov. 27.
Fisher, Norman G., and R. H. Wiley, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymers. 2,389,662; Nov. 27.
Folsom, Robert H., Los Angeles, Calif. Double-wall structural material. 2,389,769; Nov. 27.
Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Marine power unit. 2,389,663; Nov. 27.
Frank, Edward J.: *See*—
Thumim, C., Frank, and Boisseau.
Franklin, Godfrey, Vallejo, Calif. Sandblasting and apparatus therefor. 2,389,616; Nov. 27.
Fraser, Malcolm W.: *See*—
Parsons, John B., assignor.
Freund, Gertrude E., San Fernando, Calif. Exposure meter. 2,389,617; Nov. 27.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of saturated hydrocarbon materials. 2,389,971; Nov. 27.
Fuller Displays, Inc.: *See*—
Borregard, Ernst, assignor.
Funk, Truman B., assignor to Yard-Man, Inc., Jackson, Mich. Brake mechanism. 2,389,972; Nov. 27.
Gabeler, William H., assignor to The Davison Chemical Corporation, Baltimore, Md. Apparatus and method for washing gels. 2,389,973; Nov. 27.
Gagnier, George E.: *See*—
Place, Bion C., assignor.
Gaver, Kenneth M., assignor to The Ohio State University Research Foundation, Columbus, Ohio. Powdered flavor. 2,389,770; Nov. 27.
Gaver, Kenneth M., Columbus, assignor to The Komel Corporation, Dayton, Ohio. Explosive composition. 2,389,771; Nov. 27.

General Electric Company: *See*—
Bedford, Burnice D., assignor.
D'Alelio, G. F., and Underwood, assignors.
Hahn, William C., assignor.
Reed, C. E., and Coe, assignors.
Stephenson, Hugh M., assignor.
Thumim, C., Frank, and Boisseau, assignors.
Wall, Alexander C., assignor.

General Luminescent Corporation: *See*—
Isenberg, Sampson, assignor.

Gerst, Chris, Dearborn, Mich. Power take-off. 2,389,847; Nov. 27.

Giannini, Gabriel M., West Los Angeles, Calif., assignor, by mesne assignments, to A. S. Howe, Jr., South Norwalk, Conn. Magnetic compass. 2,389,664; Nov. 27.

Gibson, James L., Chicago, and E. W. Peterson, Glen Ellyn, assignors to Ditto, Incorporated, Chicago, Ill. Paper handling mechanism for duplicating machines. 2,389,848; Nov. 27.

Gilbert & Barker Manufacturing Company: *See*—
De Lancey, Warren H., assignor.
Grisé, Alfred L., assignor.

Gilbert, Samuel, Verona, assignor to Bendix Aviation Corporation, Teterboro, N. J. Clutch. 2,389,772; Nov. 27.

Gillen, George M., assignor to Nicholas Pisapia, Paterson, N. J. Valve mechanism for spaghetti canning machines. 2,389,901; Nov. 27.

Gillis, Randall, Westfield, and W. Morsing, Irvington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for applying material to advancing cores. 2,389,725; Nov. 27.

Glaude, Leopold F., Chicago, Ill. Lock nut assembler. 2,389,902; Nov. 27.

Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,389,618; Nov. 27.

Golden, John A., San Diego, Calif. Dowel setting machine. 2,389,773; Nov. 27.

Goodhue, William V., Ipswich, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Mounting. 2,389,726; Nov. 27.

Goodrich, B. F., Company, The: *See*—
Colley, R. S., and Krupp, assignors.
Sarbach, Donald V., assignor.

Gore, John H.: *See*—
Winkler, A. H., and Gore.

Great Western Sugar Company, The: *See*—
Clark, A. A., and Hooper, assignors.

Green, Thomas F., Jr., Richmond, Va. Refrigerated bottle dispensing device. 2,389,619; Nov. 27.

Green, William, Gloversville, N. Y. Stretching and spudding machine. 2,389,620; Nov. 27.

Greig, James W., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Apparatus for forming sheet material. 2,389,974; Nov. 27.

Griest Manufacturing Company, The: *See*—
Russell, Herbert H., assignor.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fluid pressure motor. 2,389,621; Nov. 27.

Gruss, Lucien R., Cleveland, Ohio. Airplane shock absorbing device. 2,389,849; Nov. 27.

Gunter, Addison Y., Larchmont, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,389,850; Nov. 27.

Gurewitz, Samuel J.: *See*—
Rothenberg, I., Kagen, and Gurewitz.

Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Washing machine. 2,389,774; Nov. 27.

Haensel, Vladimir: *See*—
Ipatieff, V. N., and Haensel.

Hagner, Frederick H., San Antonio, Tex., assignor to Archbold-Hagner Instrument Laboratory, Inc. Missile dispensing device. 2,389,851; Nov. 27.

Hagner, Frederick H., San Antonio, Tex. Azimuth and altitude measuring device. 2,389,852; Nov. 27.

Hahn, William C., Scotia, N. Y., assignor to General Electric Company. Electronic apparatus. 2,389,903; Nov. 27.

Hampson, Frederick W., assignor to Plating Processes Corporation, Holyoke, Mass. Electroplating apparatus. 2,389,904; Nov. 27.

Hanna, Clinton R., Pittsburgh, S. J. Mikina, and L. B. Lynn, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gyroscope. 2,389,775; Nov. 27.

Harbert, William D.: *See*—
Odell, W. W., and Harbert.

Harpootlian, Ethyl, Brooklyn, N. Y. Dress shield and crossed-tape support. 2,389,776; Nov. 27.

Harris, Claud S., Cirencester, England. Roller box for lathes. 2,389,853; Nov. 27.

Harris, Hyman, New York, N. Y. Electric nail filler. 2,389,665; Nov. 27.

Harris, Manly S., San Francisco, Calif. Bond tightener and sealer. 2,389,777; Nov. 27.

Harriss, Lloyd J., Kenilworth, and B. Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss. Pie pan dispenser. 2,389,905; Nov. 27.

Hatch, Meredith R.: *See*—
Rode, F. J., and Hatch.

Hayes Industries, Inc.: *See*—
Hollerith, Charles, assignor.

Haynes Stellite Company: *See*—
Ullmer, Valentine G., assignor.

Hays, Thomas W., Salt Lake City, Utah, assignor to The Union Switch and Signal Company, Swissvale, Pa. Remote control system. 2,389,975; Nov. 27.

Heard, Willis J., Fort Worth, Tex. Rod guide. 2,389,906; Nov. 27.

Hebert, Neville Z., Jeanerette, La. Agricultural device. 2,389,976; Nov. 27.

Hedin, Uno C.: *See*—
Bucklen, Herbert E., Jr.

Heise, George W.: *See*—
Schumacher, E. A., and Heise.

Heller, Eugene H., Arlington Heights, Ill. Coal truck unloading device. 2,389,779; Nov. 27.

Helmuth, Louis W., Lakewood, assignor to The Midland Steel Products Company, Cleveland, Ohio. Vehicle structure. 2,389,907; Nov. 27.

Henkel, Erich: *See*—
Williams, A., and Henkel.

Hensel, Walter C., assignor to Universal Oil Products Company, Chicago, Ill. Wall construction for heaters. 2,389,622; Nov. 27.

Hercules Powder Company: *See*—
Erickson, Ewald, assignor.
Speicher, John K., assignor.

Herkenhoff, Earl C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Flotation of iron ores. 2,389,727; Nov. 27.

Herrick, Roswell H., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,389,666; Nov. 27.

Hervey, Chilion L., Washington, D. C. Mobile gun emplacement. 2,389,623; Nov. 27.

Hess, Arthur L., Cincinnati, Ohio, assignor to Ditto, Incorporated, Chicago, Ill. Sheet handling method. 2,389,854; Nov. 27.

Hickey, James, Portland, Oreg. Parking indicator. 2,389,908; Nov. 27.

Hill, Myron F., Westport, Conn. Elliptical contour for rotor teeth. 2,389,728; Nov. 27.

Hilton, Bailey: *See*—
Ruger, K. A., and Hilton, assignors.

Hoe, R., & Co., Inc.: *See*—
Budden, E. L., and Wieking, assignors.

Hofbauer, Frank, Detroit, Mich. Rotary cutting tool. 2,389,909; Nov. 27.

Hoffman, Herbert E., Brooklyn, N. Y. Foldable and suspendable rack for shoes or like articles. 2,389,910; Nov. 27.

Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Right-left nozzle fitting. 2,389,977; Nov. 27.

Holt, Guild R.: *See*—
Pond, W. B., and Holt.

Hooper, Harry W.: *See*—
Clark, A. A., and Hooper.

Hoover Company, The: *See*—
Snyder, Eugene L., assignor.
White, Harry B., assignor.

Hoskins, Oakley W., Monroe, N. Y. Valve stem. 2,390,026; Nov. 27.

Hotchner, Fred, Los Angeles, Calif. Luminous display with effect of animation. 2,389,911; Nov. 27.

House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Hydraulic braking system. 2,389,978; Nov. 27.

Housekeeper, Earl J.: *See*—
Schellin, J. C., Housekeeper, and Brubaker.

Houston Oil Field Material Company, Inc.: *See*—
Justice, G. E., Thurston, and Young, assignors.

Howe, A. S., Jr.: *See*—
Giannini, Gabriel M., assignor.

Howland, Levi S., Long Beach, Calif. Surf board. 2,389,729; Nov. 27.

Hubbard, Arthur F.: *See*—
Kohn, Koby, assignor.

Hudson, James L., Detroit, Mich. Fluid valve control. 2,389,667; Nov. 27.

Hudson Motor Car Company: *See*—
Greig, James W., assignor.

Huffnagle, George W., Fryeburg, Maine, assignor to Farnsworth Television and Radio Corporation. Color television system. 2,389,979; Nov. 27.

Hulson Company: *See*—
Hulson, John W., assignor.

Hulson, John W., Chicago, Ill., assignor to Hulson Company, Keokuk, Iowa. Locomotive exhaust nozzle. 2,389,980; Nov. 27.

Hunter, Melvin J., assignor to The Dow Chemical Company, Midland, Mich. Ester products of 12-hydroxystearic acid. 2,390,027; Nov. 27.

Huscher, Myron E.: *See*—
Britton, E. C., Nutting, and Huscher.

Ideal Roller & Manufacturing Company: *See*—
Lippincott, Wells A., assignor.

Iler, George A., Riverside, assignor to Roberts & Porter, Inc., Chicago, Ill. Dampening mechanism for printing presses. 2,389,730; Nov. 27.





Imperial Chemical Industries Limited: *See*—
Bremner, J. G. M., Stanley, Jones, and Taylor, assignors.
Crawford, J. W. C., and Jones, assignors.

International Standard Electric Corporation: *See*—
Lee, Edwin C., assignor.

Ipatieff, Vladimir N., and V. Haensel, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of ethylene. 2,389,780; Nov. 27.

Isenberg, Sampson, assignor to General Luminescent Corporation, Chicago, Ill. Luminescent coating material. 2,389,781; Nov. 27.

Jack & Heintz, Inc.: *See*—
Conant, David J., assignor.

Jackson, Samuel, Jr., Haddonfield, N. J. Flare or fusee. 2,389,782; Nov. 27.

Jacoel, Isidore, Buffalo, N. Y. Apparatus for testing cables and the like. 2,389,912; Nov. 27.

Jaeger, Jacob J.: *See*—
Caldwell, S. H., Jaeger, and Taylor.

Jarrett, Tracy C., Catonsville, Md., assignor to American Optical Company, Southbridge, Mass. Making gold filled stock. 2,389,981; Nov. 27.

Jasco, Incorporated: *See*—
Fasce, E. V., and Pirkle, assignors.
Sparks, W. J., and Thomas, assignors.

Jensen, Adolph C.: *See*—
Ulfsby, N. J., and Jensen.

Jerome, Arthur L., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded railway signaling system. 2,389,982; Nov. 27.

Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Indexing mechanism for machine tables. 2,389,668; Nov. 27.

Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Machine tool control. 2,389,731; Nov. 27.

Johnson, Harold G., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Rubber lubricant. 2,389,855; Nov. 27.

Johnson, Harry O., and M. O'Hare, Donora, Pa., assignors to The American Steel and Wire Company of New Jersey. Water cooled spark plate and rail for pig casting machines. 2,389,983; Nov. 27.

Johnson, John A.: *See*—
Kyle, A., and Johnson.

Jones, Arthur D.: *See*—
Crawford, J. W. C., and Jones.

Jones, David G.: *See*—
Bremner, J. G. M., Stanley, Jones, and Taylor.

Jones, Jean P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of motor fuel. 2,389,984; Nov. 27.

Jones, William, Ely, Minn., assignor to Oliver Iron Mining Company. Time delay-relay switch. 2,389,856; Nov. 27.

Joy Manufacturing Company: *See*—
Mayor, John B., assignor.

Justice, George E., F. M. Thurston, and F. N. Young, assignors to Houston Oil Field Material Company, Inc., Houston, Tex. Retractable packer. 2,389,985; Nov. 27.

Justrite Manufacturing Company: *See*—
Brown Le Roy O., assignor.

Kagen, Simon: *See*—
Rothenberg, I., Kagen, and Gurewitz.

Kandarian, Samuel M.: *See*—
Baxter, B., and Kandarian, assignors.

Kasper, Cass S., Grosse Pointe, Mich. Feed pusher. 2,389,913; Nov. 27.

Kayfets, Harry, Newark, N. J. Thread-cutting apparatus. 2,389,857; Nov. 27.

Kelley, Walter T., Paducah, Ky. Honey extractor. 2,389,669; Nov. 27.

Kellogg, John L., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill. Treatment of organic liquids. 2,389,732; Nov. 27.

Kellogg, John L., & Co.: *See*—
Kellogg, John L., assignor.

Kelton, Stanton C., Jr.: *See*—
Neher, H. T., and Kelton.

Kemper, Harry C.: *See*—
Le Blond, R. K., and Kemper.

Kennedy, Gilbert J., Philadelphia, Pa., assignor to Radio Corporation of America. Cutting and counting machine. 2,389,783; Nov. 27.

Kennedy, Walter I., Boston, Mass. Tie-holding attachment. 2,389,784; Nov. 27.

Kerr, William, Roseville, and W. G. Stolberg, Detroit, Mich., assignors to American Car and Foundry Company, New York, N. Y. Lubricated wedge seal valve. 2,389,670; Nov. 27.

Kile, Jess S., assignor to Cabin Crafts, Dalton, Ga. Method and machine for making tufted articles. 2,389,914; Nov. 27.

Kiliefer Manufacturing Corporation: *See*—
Mitchell, Rollie H., assignor.

King, James T., Burbank, Calif. Hose clamp. 2,389,785; Nov. 27.

Kleen Refrigerator, Inc.: *See*—
Erland af Kleen, Nils, assignor.

Kleimack, Joseph J., Bayonne, and G. L. Pearson, Millington, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor device. 2,389,915; Nov. 27.





Knox, Harry A., Washington, D. C., and B. F. Baker, Riverdale, Md. Power transmission apparatus for track-laying vehicles. 2,389,624; Nov. 27.

Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Permeability tuning system. 2,389,986; Nov. 27.

Kohn, Koby, New York, N. Y., assignor to A. F. Hubbard, Tipp City, Ohio. Method of and apparatus for signaling. 2,389,786; Nov. 27.

Komel Corporation, The: *See*—
Gaver, Kenneth M., assignor.

Konrad, William L., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for communication systems. 2,389,987; Nov. 27.

Kriegel, Monroe W.: *See*—
Williams, P. S., and Kriegel.

Kris, Cletus J.: *See*—
Sherwood, F., and Kris.

Kroll, Nathan J.: *See*—
Kroll, Samuel and N. J.

Kroll, Samuel and N. J., Chicago, Ill. Brake mechanism for baby carriages. 2,389,671; Nov. 27.

Krupp, Carroll P.: *See*—
Colley, R. S., and Krupp.

Kuhns, Ernest L., assignor to The Cleveland Metal Hardening Company, Cleveland, Ohio. Centerless grinder gauging mechanism. 2,389,787; Nov. 27.

Kyle, Anthony, and J. A. Johnson, Los Angeles, Calif. Tool holder assembly. 2,389,858; Nov. 27.

Lambach, Fritz, Tenafly, and W. Siegel, Union City, assignors to Robert Reiner, Inc., Weehawken, N. J. Drop needle control and an electrically operated stop motion for warping or beaming plants. 2,389,625; Nov. 27.

Lambers, Bernard: *See*—
Harriss, L. J., and Lambers.

Lambert, Harry, Methuen, assignor to Pacific Mills, Lawrence, Mass. Bobbin marking mechanism. 2,389,859; Nov. 27.

Lambert, John H.: *See*—
Odom, L. M., and Lambert.

Lambet, Gustave: *See*—
Caro, M., and Lambet.

Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Distillation method and apparatus. 2,389,789; Nov. 27.

Lathrop, Harvey, Forest Hills, N. Y. Traveling case. 2,389,788; Nov. 27.

Lazier, Wilbur A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of vinyl halides. 2,389,626; Nov. 27.

Leadbetter, Ralph L., Wheaton, assignor, by mesne assignments, to Burgess-Manning Company, Chicago, Ill. Silencer and solid particle separator. 2,389,988; Nov. 27.

Le Blond, R. K., Machine Tool Co., The: *See*—
Blond, R. K., and Kemper, assignors.

Le Blond, Richard K., Cincinnati, and H. C. Kemper, Goshen Township, Clermont County, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Milling machine drive mechanism. 2,389,627; Nov. 27.

Lee, Edwin C., London, W. C. 2, England, assignor to International Standard Electric Corporation, New York, N. Y. Articles formed from paper impregnated with polymerised material. 2,389,733; Nov. 27.

Leeds and Northrup Company: *See*—
Stein, Irving M., assignor.

Leeper, Naomi K., executrix: *See*—
Leeper, Lawrence W.

Leeper, Lawrence W., deceased, Dallas, Tex.; N. K. Leeper, executrix. Revolving chopper. 2,389,790; Nov. 27.

Lehane, Timothy J., and E. H. Burgess, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Temperature control by overhead ventilation. 2,389,860; Nov. 27.

Leisen, Frederic A., Grosse Pointe Farms, Mich. Aircraft structure. 2,389,917; Nov. 27.

Levitt, Percy B.: *See*—
Morgan, J. D., and Levitt.

Lindy, Mordie L., Irvington, N. J. Frame construction for receptacles. 2,389,916; Nov. 27.

Lion Oil Refining Company: *See*—
Odell, W. W., and Harbert, assignors.

Lippincott, Wells A., Evanston, assignor to Ideal Roller & Manufacturing Company, Chicago, Ill. Accumulator. 2,389,791; Nov. 27.

Lippincott, Wells A., Evanston, assignor to Ideal Roller & Manufacturing Company, Chicago, Ill. Accumulator. 2,389,792; Nov. 27.

Lippold, Adolph J., Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Wilmington, Del. Condensate deflector for bottle fillers. 2,389,672; Nov. 27.

Little, Arthur D., Inc.: *See*—
Latham, Allen, Jr., assignor.

Livingston, John W., assignor to Monsanto Chemical Company, St. Louis, Mo. Production of styrene. 2,389,793; Nov. 27.

Lofdahl, Herman L., Klamath Falls, Oreg. Block molding machine. 2,389,673; Nov. 27.

Lomasso, Edmund J.: *See*—
Sparks, S. W., and Lomasso.

Lowe, Russell E.: *See*—
Morgan, J. D., and Lowe.

Luaces, Enrique L., Dayton, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del. Wrinkle coating from nonconjugated oils. 2,389,794; Nov. 27.

Luaces, Enrique L., Dayton, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del. Wrinkle coating from nonconjugated oils. 2,389,795; Nov. 27.

Luce, Richard W., Southport, Conn. Anchor nut. 2,389,989; Nov. 27.

Ludwig, Frederick W., as trustee: *See*—
Stephens, Thomas J., assignor.

Lummus Company, The: *See*—
Schutte, A. H., and Bowles, assignors.

Lynn, Lawrence B.: *See*—
Hanna, C. R., Mikina, and Lynn.

MacFarland, Allison M., Freeport, assignor to Burgess Battery Company, Chicago, Ill. Making dry batteries. 2,389,674; Nov. 27.

Macgill, Charles D., Glasgow, W. 3, Scotland, assignor to Barro & Stroud, Limited, Glasgow, Scotland. Reciprocating pump. 2,389,918; Nov. 27.

Mack, Gerry P., Jackson Heights, assignor to Advance Solvents & Chemical Corporation, New York, N. Y. Aqueous polyisobutylene emulsions. 2,389,796; Nov. 27.

MacNeil, Charles I., Glen Ridge, N. J., and F. C. Mock, assignors to Bendix Aviation Corporation, South Bend, Ind. Mixture control system. 2,389,797; Nov. 27.

Macomber, James K., Rockville Centre, assignor to Arma Engineering Co., Inc., Brooklyn, N. Y. Rate determining mechanism. 2,389,861; Nov. 27.

Magnusson, Knut J., Princeton, N. J., assignor to Radio Corporation of America. Time-controlled radio program pre-selector. 2,389,990; Nov. 27.

Mahler, George T.: *See*—
Wagner, I. D., Fetterolf, Waring, and Mahler.

Main, David W., Denver, Colo. Pitch control device for rotor blades. 2,389,798; Nov. 27.

Makowsky, J., Corporation: *See*—
Van Rosen, Robert, assignor.

Malina, Arthur: *See*—
Charnas, B., and Malina.

Mallory, Harry A., Saint John, New Brunswick, Canada. Sectional boat and making same. 2,389,799; Nov. 27.

Manning, Maxwell & Moore, Inc.: *See*—
Acker, Albert J., assignor.

Manning, Maxwell & Moore, Incorporated: *See*—
Allen, Earle F., assignor.

Mansell, Stanley W.: *See*—
Fedden, A. H. R., Owner, Thomas, and Mansell.

Marble, George E., assignor to Curtis & Marble Machine Company, Worcester, Mass. Cutter shifting apparatus for cloth shears. 2,389,800; Nov. 27.

Martin, Elmore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Linear polyamides. 2,389,628; Nov. 27.

Mathes, Richard E., Silver Spring, Md., assignor to Radio Corporation of America. Conversion of synchronous type signals to start stop signals. 2,389,675; Nov. 27.

Matthews, Walter I., Riverhead, N. Y., assignor to Radio Corporation of America. Augmented automatic gain control. 2,389,919; Nov. 27.

Mattox, William J., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of styrene. 2,389,801; Nov. 27.

Mavor, John B., Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa. Apparatus for mining. 2,389,920; Nov. 27.

Mavor, John B., Glasgow, Scotland, assignor to Joy Manufacturing Coinpany, Franklin, Pa. Apparatus for mining. 2,389,921; Nov. 27.

Mayhew, James N., Los Angeles, Calif. Nonsiphon shampoo spray head. 2,389,676; Nov. 27.

Mayle, Louis F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Mosaic sensitivity indicator. 2,389,991; Nov. 27.

Mayle, Louis F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Automatic frequency control apparatus. 2,389,992; Nov. 27.

Maytag Company, The: *See*—
Smith, Thomas R., assignor.

McBee Company, The: *See*—
Burke, William F., assignor.

McCay, Gadi L., Utica, Miss. Boll weevil exterminating machine. 2,389,677; Nov. 27.

McGihon, Leonard, San Leandro, assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Extractor. 2,389,862; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,802; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,803; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,804; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,805; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,806; Nov. 27.

McGregor, Rob Roy, Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Stabilizing organo-siloxanes. 2,389,807; Nov. 27.

McLaughlin, Robert W., Jr., Bedford Village, assignor to American Houses, Inc., New York, N. Y. Building construction unit. 2,389,863; Nov. 27.

Mehl, Ernst, Essex, England. Production of iron powder. 2,389,734; Nov. 27.

Mennesson, Marcel L., Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Carburetion device for internal-combustion engines. 2,389,922; Nov. 27.

Merrell, Edwin J., Eastchester, N. Y., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Powder fiber sheet. 2,389,678; Nov. 27.

Metropolitan Device Corporation: *See*—
Rypinski, Albert B., assignor.

Michelson, Julius, West Hartford, Conn. Drill sharpening device. 2,389,679; Nov. 27.

Midland Steel Products Company, The: *See*—
Helmuth, Louis W., assignor.
Smith, William E., assignor.

Mid West Sales & Service, Inc.: *See*—
Paulson, Theodore R., assignor.

Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Blending agents for asphalts. 2,389,680; Nov. 27.

Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Asphalt wetting agents. 2,389,681; Nov. 27.

Mikina, Stanley J.: *See*—
Hanna, C. R., Mikina, and Lynn.

Miller, Henry J., assignor of one-third to V. Moore, Sioux Falls, S. Dak. Atomizing sprayer for medicinal and chemical preparations. 2,389,864; Nov. 27.

Miller, Karl H., North Canton, assignor to Diebold, Incorporated, Canton, Ohio. Card tray follower construction. 2,389,923; Nov. 27.

Miller Pottery Engineering Company: *See*—
Miller, William J., assignor.

Miller, William J., assignor to Miller Pottery Engineering Company, Swissvale, Pa. Automatic, change speed drive for potteryware jiggering apparatus. 2,389,629; Nov. 27.

Mills, Gordon F., Palo Alto, and A. V. Alm, Burlingame, assignors to Chemical Process Company, San Francisco, Calif. Artificial resin and preparation. 2,389,865; Nov. 27.

Minneapolis-Honeywell Regulator Company: *See*—
Sparrow, Hebert T., assignor.

Mitchell, Rollie H., Huntington Park, assignor to Killefer Manufacturing Corporation, Los Angeles, Calif. Disk gang assembly. 2,389,993; Nov. 27.

Mitton, W. E., Company: *See*—
Mitton, William E., assignor.

Mitton, William E., assignor, by mesne assignments, to W. E. Mitton Company, Shawano, Wis. Work table for handling eggs. 2,389,630; Nov. 27.

Mock, Frank C.: *See*—
MacNeil, C. I., and Mock.

Moessinger, Albert, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Device for making fabrics on gripper looms. 2,389,808; Nov. 27.

Moessinger, Albert, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Method and device for cutting weft thread ends projecting from the fabric. 2,389,809; Nov. 27.

Moline, Carl R.: *See*—
Douglass, K., and Moline.

Monarch Machine Tool Co., The: *See*—
Bickel, Clifford A., assignor.

Monsanto Chemical Company: *See*—
Livingston, John W., assignor.

Moore, Morton E., Prospect Park, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for making gravity measurements. 2,389,866; Nov. 27.

Moore, Violet: *See*—
Miller, Henry J., assignor.

Moore, Wiley T., U. S. Army, Laverne, Okla. Automatic and semiautomatic carbine. 2,389,631; Nov. 27.

Morgan, John D., South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y. Low temperature lubricants. 2,389,924; Nov. 27.

Morgan, John D., South Orange, and P. B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y. Electric heating apparatus and heating crank case oils. 2,389,925; Nov. 27.

Morgan, John D., South Orange, and R. E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y. Plastic sealing cements. 2,389,926; Nov. 27.

Morner, Hans G., New York, N. Y. Lifesaving jacket. 2,389,735; Nov. 27.

Morsing, William: *See*—
Gillis, R., and Morsing.

Mossbach, Henry, Seattle, Wash. Internal-combustion rotary motor. 2,389,632; Nov. 27.

Muecke, Edward, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine looper mechanism. 2,389,867; Nov. 27.

Muise, James H., Bridgeport, Conn. Soap sheet and making same. 2,389,736; Nov. 27.

Murray Corporation of America, The: *See*—
Haberstump, Alfred H., assignor.

Narracott, Eric S.: *See*—
Fawcett, E. W. M., and Narracott.

National Automotive Fibres, Inc.: *See*—
Faris, H. P., and White, assignors.

National Carbon Company, Inc.: *See*—
Schumacher, E. A., and Heise, assignors.

National Lead Company: *See*—
Williams, F. J., and Orsino, assignors.





National Oil Products Company: *See*—
Buxton, Loran O., assignor.

Nebel, Walter, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ketone-urea-formaldehyde condensation products. 2,389,682; Nov. 27.

Neher, Harry T., and S. C. Kelton, Jr., Bristol, assignors to Röhm & Haas Company, Philadelphia, Pa. Preparation of acrylic esters. 2,390,028; Nov. 27.

Neuschotz, Robert, Los Angeles, Calif. Remote cable control. 2,389,737; Nov. 27.

New Era Manufacturing Company: *See*—
Paulsen, Christian, assignor.

New Jersey Zinc Company, The: *See*—
Truesdale, Edward C., assignor.
Wagner, I. D., Fetterolf, Waring, and Mahler, assignors.

New Wrinkle, Inc.: *See*—
Luaces, Enrique L., assignor.

Niles-Bement-Pond Company: *See*—
Caldwell, S. H., Jaeger, and Taylor, assignors.

Nolan, Kenneth G., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Transdithiocyanoethylene as a fungicide. 2,390,037; Nov. 27.

Nordberg Manufacturing Co.: *See*—
Talboys, H. H., and Erickson, assignors.

Nutting, Howard S.: *See*—
Britton, E. C., Nutting, and Huscher.

Odell, William W., and W. D. Harbert, assignors to Lion Oil Refining Company, El Dorado, Ark. Recovering elemental sulphur from sulphurous gases. 2,389,810; Nov. 27.

Odom, Leslie M., and J. H. Lambert, Los Angeles, Calif. Pot chuck collet. 2,389,633; Nov. 27.

O'Hare, Martin: *See*—
Johnson, H. O., and O'Hare.

O'Hearn, George E., Gardner, Mass. Article of furniture. 2,389,994; Nov. 27.

Ohio State University Research Foundation, The: *See*—
Gaver, Kenneth M., assignor.

Oilgear Company, The: *See*—
Tyler, Ransom, assignor.

Oliver Iron Mining Company: *See*—
Jones, William, assignor.

Olney, Nathaniel M., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming machine. 2,389,738; Nov. 27.

Olson, Harry F., Princeton, N. J., assignor to Radio Corporation of America. Acoustic stethoscope. 2,389,868; Nov. 27.

Orsino, Joseph A.: *See*—
Williams, F. J., and Orsino.

Owner, Frank M.: *See*—
Feeden, A. H. R., Owner, Thomas, and Mansell.

Oxlek, Herman, Philadelphia, Pa. Joint for poles and the like. 2,389,811; Nov. 27.

Pacific Mills: *See*—
Lambert, Harry, assignor.

Packer, Oscar W., Reading, assignor to The Sanborn Company, Cambridge, Mass. Polar coordinate oscilloscope. 2,389,995; Nov. 27.

Page, John H., Muskegon, Mich. Tooth powder and paste dispenser. 2,389,683; Nov. 27.

Papendick, Elizabeth, executrix: *See*—
Papendick, Gustav C., assignor.

Papendick, Gustav C., deceased, by E. Papendick, executrix, assignor to E. Papendick, University City, Mo. Packaging sliced loaves. 2,389,812; Nov. 27.

Park, Ransom L., Monmouth, Oreg. Lock nut. 2,389,634; Nov. 27.

Parker, John W.: *See*—
Schoepfer, A. C., and Parker.

Parr, Bernard F., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Toaster apparatus. 2,389,927; Nov. 27.

Parsons, John B., Toledo, Ohio, assignor to Malcolm W. Fraser, of Toledo, Ohio, as trustee. Regulator mechanism. 2,390,029; Nov. 27.

Pasker, Gerald J., New Vienna, Iowa. Agricultural machine. 2,389,928; Nov. 27.

Patzer, Raymond C.: *See*—
Woditsch, Frank J., assignor.

Paulsen, Christian, Fair Lawn, assignor to New Era Manufacturing Company, Paterson, N. J. Feed mechanism. 2,389,929; Nov. 27.

Paulsen, Theodore R., assignor to Mid West Sales & Service, Inc., South Bend, Ind. Chilling cabinet. 2,390,030; Nov. 27.

Pearson, Gerald L.: *See*—
Kleimack, J. L., and Pearson.

Pendry, William J., Brentwood, Calif. Folding table. 2,389,930; Nov. 27.

Perry, Richard G.: *See*—
Wylde, J. R., and Perry.

Peterson, Eric W.: *See*—
Gibson, J. L., and Peterson.

Pevere, Ernest F., Beacon, assignor to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,389,739; Nov. 27.

Pfeiffer, William C., assignor to The Egry Register Company, Dayton, Ohio. Pin wheel register. 2,389,813; Nov. 27.

Phelps Dodge Products Corporation: *See*—
Merrell, Edwin J., assignor.

Phillips Petroleum Company: *See*—
Frey, Frederick E., assignor.
Jones, Jean P., assignor.

Phipps, John T., Whittier, assignor, by mesne assignments, to Vernon Tool Co. Ltd., Alhambra, Calif. Locking and setting device. 2,389,869; Nov. 27.

Pierrepont, Donald, Chadderton, Oldham, England. Clearer as used in combing machine or other machine for the treatment of textile fibers. 2,389,684; Nov. 27.

Pike, Wickliffe H., Warren, Pa. Emergency gasoline tank. 2,389,685; Nov. 27.

Pirkle, Louis E.: *See*—
Fasce, E. V., and Pirkle.

Pisapia, Nicholas: *See*—
Gillen, George M., assignor.

Place, Bion C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Fastener. 2,389,635; Nov. 27.

Plasco, Inc.: *See*—
Wolf, Charles, assignor.

Plating Processes Corporation: *See*—
Hampson, Frederick W., assignor.

Pond, William B., West Englewood, and G. R. Holt, Hohokus, assignors to Bendix Aviation Corporation, Teterboro, N. J. Filter. 2,389,814; Nov. 27.

Pontius, George W., III, assignor to Bendix Aviation Corporation, South Bend, Ind. Charger motor. 2,389,996; Nov. 27.

Pontius, George W., III, and R. J. Reek, assignors to Bendix Aviation Corporation, South Bend, Ind. Gun turret. 2,389,997; Nov. 27.

Putnam, Thomas A.: *See*—
Carter, O. L., and Putnam.

Quincy Stove Manufacturing Company, The: *See*—
Castle, Boyd F., assignor.

Radio Corporation of America: *See*—
Kennedy, Gilbert J., assignor.
Koch, Winfield, assignor.
Magnusson, Knut J., assignor.
Mathes, Richard E., assignor.
Matthews, Walter I., assignor.
Olson, Harry F., assignor.
Spencer, James A., assignor.
Stott, Harold B., assignor.
Tunick, Harry, assignor.
Young, John E., assignor.

Ramseyer, Charles F., Old Greenwich, Conn., assignor to H. A. Brassert & Company, New York, N. Y. Cracking hydrocarbon gases and vapors. 2,389,636; Nov. 27.

Ransome, Stafford M., assignor to Barber-Colman Company, Rockford, Ill. Machine for hobbing. 2,389,815; Nov. 27.

Reed, Charles E., Schenectady, and J. T. Coe, Fort Schuyler, N. Y., assignors to General Electric Company. Producing organo-siliconhalides. 2,389,931; Nov. 27.

Reek, Royal J.: *See*—
Pontius, G. W., III, and Reek.

Reevely, Frederick R., St. Lambert, Quebec, Canada. Carrier and applicator for the treatment of trees. 2,389,870; Nov. 27.

Reichart, James H., Muncie, Ind. Glass coffee maker adjustable handle. 2,389,740; Nov. 27.

Reichart, James H., Muncie, Ind. Glass vessel band and handle structure. 2,389,741; Nov. 27.

Reiner, Robert, Inc.: *See*—
Lambach, F., and Siegel, assignors.

Reingruber, Frank and J., New York, N. Y. Thermostat. 2,389,686; Nov. 27.

Reingruber, Joseph: *See*—
Reingruber, Frank and J.

Research Corporation: *See*—
Stowell, Harold T., assignor.

Resinous Products & Chemical Company, The: *See*—
Bruson, Herman A., assignor.

Ress, Thomas I., assignor to De Vry Corporation, Chicago, Ill. Variable-speed governor for motion-picture cameras. 2,389,932; Nov. 27.

Rey, Eudice, Brooklyn, assignor to Zylo Ware Corporation, Long Island City, N. Y. Spectacle frame. 2,389,742; Nov. 27.

Richardson, Jonathan C. V., Columbus, Ohio. Nut grinding machine. 2,389,816; Nov. 27.

Rickenmann, Alfred, Zurich, Switzerland. Bearing. 2,389,687; Nov. 27.

Rider, Harry N., assignor to "Automatic" Sprinkler Company of America, Youngstown, Ohio. Valve for sprinkler systems. 2,387,817; Nov. 27.

Robbins, Leo, assignor to Roberts Manufacturing Co., New York, N. Y. Automatic drilling machine. 2,389743; Nov. 27.

Robbins, Leo, assignor to Roberts Manufacturing Co., New York, N. Y. Indexing mechanism for automatic machines. 2,389,744; Nov. 27.

Rober, Anton, Milwaukee, Wis. Wrench. 2,389,933; Nov. 27.

Roberts Manufacturing Co.: *See*—
Robbins, Leo, assignor.

Roberts & Porter, Inc.: *See*—
Iler, George A., assignor.

Robertshaw Thermostat Company: *See*—
Weber, Victor, assignor.

Rode, Frederick J., and M. R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Press. 2,389,818; Nov. 27.

Röhm & Haas Company: *See*—
Neher, H. T., and Kelton, assignors.
Stallings, James W., assignor.

Rose, Charles S., Agency, Iowa. Combination grinder and tool dresser. 2,389,871; Nov. 27.

Rosenthal, Jack, Brooklyn, N. Y. Automatic tapping and threading machine. 2,389,998; Nov. 27.

Rothenberg, Irving, S. Kagen, and S. J. Gurewitz, New York, N. Y.: said Gurewitz assignor to said Kagen and said Rothenberg. Method of and apparatus for fabricating shoulder pad blanks. 2,389,934; Nov. 27.

Rothfuss, John: *See*—
Timm, R. C., and Rothfuss.

Rothstein, Jerome, Belmar, N. J. Microphonic electron tube. 2,389,935; Nov. 27.

Rotol Limited: *See*—
Brierley, Walter, assignor.

Ruben, Samuel: *See*—
Williams, Fred D., Jr., assignor.

Ruben, Samuel, New Rochelle, N. Y. High frequency ignition system. 2,389,637; Nov. 27.

Ruben, Samuel, New Rochelle, N. Y. Ignition system. 2,389,638; Nov. 27.

Ruben, Samuel, New Rochelle, N. Y. High frequency ignition system. 2,389,640; Nov. 27.

Rudkin, Henry A.: *See*—
Stephens, Thomas J.

Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Temperature compensated gauge. 2,390,038; Nov. 27.

Ruger, Kenneth A., Portland, Oreg., and B. Hilton, Tacoma, Wash. Hydraulic floor crane. 2,389,872; Nov. 27.

Rupp, Edwin, Minot, N. Dak. Cutter chain. 2,389,936; Nov. 27.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Sewing machine attachment. 2,389,745; Nov. 27.

Ruth, James A., High Point, N. C. Knitting machine attachment. 2,389,688; Nov. 27.

Rypinski, Albert B., Laurelton, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Circuit breaker. 2,389,999; Nov. 27.

Sampson, Donald S., Silver Spring, Md. Ladder construction. 2,390,000; Nov. 27.

Sanborn Company, The: *See*—
Packer, Oscar W., assignor.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Adhering rubbery material to smooth surfaces. 2,389,641; Nov. 27.

Schellin, John C., E. J. Housekeeper, and W. H. Brubaker, assignors to The Wooster Brass Company, Wooster, Ohio. Four-way nozzle. 2,389,642; Nov. 27.

Scheppler, Edith F., New York, N. Y. Uniform cap. 2,389,689; Nov. 27.

Schiller, Harold, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Preparation of basic heavy metal soaps. 2,389,873; Nov. 27.

Schindler, Frank S., assignor to The Brainard Steel Corporation, Warren, Ohio. Processing of metal strip and the like. 2,390,001; Nov. 27.

Schlage, Walter R., Burlingame, Calif. Door lock. 2,389,819; Nov. 27.

Schloss, Fritz, South Norwalk, Conn. Toy bomb. 2,390,002; Nov. 27.

Schmidt, Gottfried J., Pearl River, assignor to Bowling Patents Management Corporation, New York, N. Y. Ball and pin handling mechanism for bowling pin setting machines. 2,389,643; Nov. 27.

Schmidt, Paul, Wytheville, Va. Full-fashioned stocking and producing the same. 2,390,003; Nov. 27.

Schmitt, Alfred, Buffalo, N. Y. Tube bending machine. 2,389,937; Nov. 27.

Schoepfer, Alfred C., and J. W. Parker, Detroit, Mich. Garment stretcher. 2,390,004; Nov. 27.

Schreiber, Frederic, Detroit, Mich. Cervical collar. 2,389,690; Nov. 27.

Schumacher, Erwin A., Parma, and G. W. Heise, Rocky River, Ohio, assignors to National Carbon Company, Inc. Electrolytic process for treating a ferrous sulphate solution. 2,389,691; Nov. 27.

Schutte, August H., Hastings-on-Hudson, and V. O. Bowles, Dobbs Ferry, assignors to The Lummus Company, New York, N. Y. Hydrocarbon conversion. 2,390,031; Nov. 27.

Schwabe, Joseph L., Jr., West Allis, assignor, by mesne assignments, to C. Backlin, Burlington, Wis. Liquid-supplying device. 2,389,820; Nov. 27.

Schwarz Engineering Company, Inc., The: *See*—
McGihon, Leonard, assignor.

Searles, Amos, Moscow, Pa., and C. A. Swartz, Yonkers, N. Y. Sealing device for pivotal joints. 2,389,874; Nov. 27.

Seifert, Harry H. and W. W., Troy, N. Y. Rectifier system. 2,390,005; Nov. 27.

Seifert, William W.: *See*—
Seifert, Harry H. and W. W.

Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Surface active agents. 2,389,875; Nov. 27.

Sequin, Carl, Oberwinterthur, Switzerland. Apparatus for making blades for turbo-machines. 2,389,876; Nov. 27.

Severy, Lawrence A., assignor to American Optical Company, Southbridge, Mass. Welder's helmet. 2,390,006; Nov. 27.

Shealy, James W., Jasper, Ala. Safety mine car coupling pin. 2,389,821; Nov. 27.

Sherman, C. W., trustee, et al.: *See*—
Sherman, Clifton W., assignor.

Sherman, Clifton W., Ancaster, Ontario, assignor of one-third to Dominion Foundries & Steel Limited, Hamilton, Ontario, Canada, and one-third to C. W. Sherman, trustee for Dominion Foundries & Steel Employees' Savings and Profit Sharing Fund. Apparatus for continuously hot dip coating of tin on coiled strip. 2,390,007; Nov. 27.

Sherwin, Chalmers W., Belmont, Mass., assignor, by mesne assignments, to United States of America as represented by the Secretary of War. Remote indicating system. 2,389,692; Nov. 27.

Sherwood, Fred, and C. J. Kriz, Cheyenne, Wyo. Recap tire balancing wheel. 2,390,008; Nov. 27.

Shibovich, Henry J., Chicago, Ill. Stock straightener. 2,389,644; Nov. 27.

Shoe Form Co., Inc.: *See*—
De Witt, William J., assignor.

Siegel, Walter: *See*—
Lambach, F., and Siegel.

Simison, Allen L.: *See*—
Slayter, G., and Simison.

Simmons, Paul G., North Bergen, N. J. Nail polish drier. 2,389,822; Nov. 27.

Singer Manufacturing Company, The: *See*—
Muecke, Edward, assignor.

Slayter, Games, and A. L. Simison, Newark, Ohio. Insulated electrical conductor. 2,390,039; Nov. 27.

Sleeper, George E., Jr., Berkeley, Calif. Television system. 2,389,645; Nov. 27.

Sleeper, George E., Jr., Berkeley, Calif. Television system. 2,389,646; Nov. 27.

Smith, Clyde, Hopkinsville, Ky. Parimutuel system. 2,389,823; Nov. 27.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. End cap mounting for cylinders. 2,389,824; Nov. 27.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Fire hose coupling. 2,389,825; Nov. 27.

Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Electrode holder. 2,389,938; Nov. 27.

Snyder, Eugene L., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,389,877; Nov. 27.

Socony-Vacuum Oil Company, Incorporated: *See*—
Schiller, Harold, assignor.

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Chemical process and product. 2,389,647; Nov. 27.

Sparks Machine Tool Corporation, The: *See*—
Sparks, S. W., and Lomazzo, assignors.

Sparks, Stanley W., and E. J. Lomazzo, assignors to The Sparks Machine Tool Corporation, Norwalk, Conn. Lathe and making the same. 2,389,746; Nov. 27.

Sparks, William J., Cranford, and R. M. Thomas, Union, N. J., assignors to Jasco, Incorporated. Producing high molecular weight polymers from olefins. 2,389,693; Nov. 27.

Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor control system. 2,389,939; Nov. 27.

Speicher, John K., Newark, assignor to Hercules Powder Company, Wilmington, Del. Molding compositions. 2,389,940; Nov. 27.

Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Polar relay storage system. 2,389,694; Nov. 27.

Stafford, Charles E., Mira Loma, Calif. Container-opening tool. 2,389,648; Nov. 27.

Stalker, Edward A., Bay City, Mich. Torque converter. 2,389,826; Nov. 27.

Stallings, James W., Haddon Heights, N. J., assignor to Röhm & Haas Company, Philadelphia, Pa. Treatment of cellulosic fibers. 2,390,032; Nov. 27.

Stallings, James W., Haddon Heights, N. J., assignor to Röhm & Haas Company, Philadelphia, Pa. Fabric fire hose. 2,390,033; Nov. 27.

Standard Oil Development Company: *See*—
Dawson, Oliver H., assignor.
Mikeska, Louis A., assignor.
Williams, P. S., and Kriegel, assignors.

Stanley, Robert H.: *See*—
Bremner, J. G. M., Stanley, Jones, and Taylor.

Staples, Crawford E.: *See*—
Talbert, H. A., and Staples.

Stark, Donald E.: *See*—
Stark, Rawson E. and D. E.

Stark, Rawson E. and D. E., Greensburg, Pa., assignors to Stupakoff Ceramic & Manufacturing Co. Variable intensity light signaling apparatus. 2,389,649; Nov. 27.

Stein, Irving M., assignor to Leeds and Northrup Company, Philadelphia, Pa. Recording apparatus. 2,389,827; Nov. 27.





Stenhammer, Harold T., New York, assignor to Control Instrument Company, Inc., Brooklyn, N. Y. Impulse sender. 2,389,695; Nov. 27.

Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Brush rigging. 2,389,941; Nov. 27.

Stiles, John W., New York, N. Y. Conveyer feeding system. 2,389,696; Nov. 27.

Stoeckert, Isidor, Ridgewood, N. Y. Sanitary detachable pocket. 2,389,697; Nov. 27.

Stolberg, William G.: *See*—
Kerr, W., and Stolberg.

Stone, Ralph K., Elmhurst, Ill., and F. O. Brougham, assignors to United States Envelope Company, Springfield, Mass. Envelope. 2,389,747; Nov. 27.

Stott, Harold B., Glen Olden, Pa., assignor to Radio Corporation of America. Variable tuning system. 2,390,009; Nov. 27.

Stowell, Harold T., Washington, D. C., assignor to Research Corporation, New York, N. Y. Air conditioning. 2,389,698; Nov. 27.

Strawn, Lynn R., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Catalytically converting hydrocarbons by the action of liquid aluminum halide-hydrocarbon complex. 2,389,651; Nov. 27.

Stuebing, William, Jr., Cincinnati, Ohio. Binding strip apparatus. 2,389,699; Nov. 27.

Stupakoff Ceramic & Manufacturing Co.: *See*—
Stark, Rawson E. and D. E., assignors.

Sulzer, Frères, Société Anonyme: *See*—
Moessinger, Albert, assignor.

Sun Oil Company: *See*—
Moore, Morton E., assignor.

Superheater Company, The: *See*—
Williams, A., and Henkel, assignors.

Swartz, Charles A.: *See*—
Searles, A., and Swartz, assignors.

Swift, Lawrence M., Tulsa, Okla., assignor to Engineering Laboratories, Incorporated. Recorder. 2,389,828; Nov. 27.

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Envelope. 2,389,748; Nov. 27.

Symmes, Daniel D., West Haven, Conn., assignor to The American Steel and Wire Company of New Jersey. Strand engaging drum. 2,389,878; Nov. 27.

Talbert, Henry A., Churchill, and C. E. Staples, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,390,010; Nov. 27.

Talboys, Henry H., and H. E. Erickson, assignors to Nordberg Manufacturing Co., Milwaukee, Wis. Drill chuck. 2,389,749; Nov. 27.

Taylor, Arthur W. C.: *See*—
Bremner, J. G. M., Stanley, Jones, and Taylor.

Taylor, Richard: *See*—
Caldwell, S. H., Jaeger, and Taylor.

Taylor, Shepard, Gresham, S. C. Fan attachment. 2,389,700; Nov. 27.

Temple, Robert B.: *See*—
Eksergian, C. L., and Temple.

Texas Company, The: *See*—
Atwell, Harold V., assignor.
Dowding, Leonard F., assignor.
Pevere, Ernest F., assignor.
Strawn, Lynn R., assignor.

Thomas, Frederick M.: *See*—
Fedden, A. H. R., Owner, Thomas, and Mansell.

Thomas, J. Stephens, New York, N. Y., assignor to F. W. Ludwig, as trustee for the benefit of T. J. Stephens, H. A. Rudkin, and F. W. Ludwig. Apparatus for roasting coffee and the like. 2,389,650; Nov. 27.

Thomas, Robert M.: *See*—
Sparks, W. J., and Thomas.

Thompson, William, Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey. Nail cleaning apparatus. 2,390,011; Nov. 27.

Thumim, Carl and E. J. Frank, Yeadon, and A. C. Boisseau, Lansdowne, Pa., assignors to General Electric Company. Circuit breaker operating system. 2,390,942; Nov. 27.

Thurston, Frank M.: *See*—
Justice, G. E., Thurston, and Young.

Timber Structures, Inc.: *See*—
Winkel, Victor J., assignor.

Timm, Roy C., Buffalo, and J. Rothfuss, Orchard Park, assignors to Trico Products Corporation, Buffalo, N. Y. Inspection machine. 2,390,012; Nov. 27.

Timpson, Lewis G. M., Plainfield, N. J. Extinguishing fires and fluid used therein. 2,389,652; Nov. 27.

Titan Tool Company: *See*—
Walker, John V., assignor.

Treadwell Engineering Company: *See*—
Beatty, Floyd A., assignor.

Trico Products Corporation: *See*—
Timm, Roy C., and Rothfuss, assignors.

Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Aircraft combat station. 2,390,013; Nov. 27.

Truesdale, Edward C., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Pneumatic sizing. 2,389,701; Nov. 27.

Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Frequency modulation. 2,389,879; Nov. 27.

Turchan, Manuel, Dearborn, and C. Walker, Detroit, Mich. Hydraulic duplicating mechanism and directional control. 2,389,653; Nov. 27.

Turner, Basil S., M. B. Arisman, and J. G. Veatch, assignors to Chicago Telephone Supply Company, Elkhart, Ind. Variable resistance device. 2,389,750; Nov. 27.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread control system for looms. 2,390,014; Nov. 27.

Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Remote control. 2,389,829; Nov. 27.

Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive. 2,389,830; Nov. 27.

Ulfsby, Nels J., and A. C. Jensen, Chicago, Ill. Automatic antislam check valve. 2,390,015; Nov. 27.

Ullmer, Valentine G., Pittsburgh, Pa., assignor to Haynes Stellite Company. Apparatus for treating metal articles. 2,389,702; Nov. 27.

Underwood, James W.: *See*—
D'Alelio, G. F., and Underwood.

Union Switch & Signal Company, The: *See*—
Hays, Thomas W., assignor.
Jerome, Arthur L., assignor.
Konrad, William L., assignor.
Talbert, H. A., and Staples, assignors.

United Gas Improvement Company, The: *See*—
Soday, Frank J., assignor.

United Shoe Machinery Corporation: *See*—
Goodhue, William V., assignor.

United States Envelope Company: *See*—
Stone, R. K., and Brougham, assignors.
Swift, Willard E., assignor.

Universal Oil Products Company: *See*—
Hensel, Walter C., assignor.
Ipatieff, V. N., and Haensel, assignors.
Mattox, William J., assignor.

Van Der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Hydraulic motor unit. 2,389,654; Nov. 27.

Van Rosen, Robert, New York, N. Y., assignor to J. Makowsky Corporation. Carton. 2,389,703; Nov. 27.

Vapor Car Heating Company, Inc.: *See*—
Lehane, T. J., and Burgess, assignors.

Veatch, Joseph G.: *See*—
Turner, B. S., Arisman, and Veatch.

Vernon Tool Co. Ltd.: *See*—
Phipps, John T., assignor.

Victor Manufacturing & Gasket Company: *See*—
Bittermann, Ferdinand J., assignor.

Villani, Lazzaro V., Milford, Mass. Universal automotive vehicle windshield defroster and drier. 2,389,704; Nov. 27.

Wagner, Irwin D., L. D. Fetterolf, R. K. Waring, and G. T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Charge preparation. 2,390,016; Nov. 27.

Walker, Curtis: *See*—
Turchan, M., and Walker.

Walker, John V., assignor to Titan Tool Company, Fairview, Pa. Stud setting device. 2,390,034; Nov. 27.

Wall, Alexander C., Indianapolis, Ind., assignor to General Electric Company. Gun charger. 2,389,943; Nov. 27.

Walsh, Frank P., St. Louis, Mo., assignor to Whiting Corporation, Harvey, Ill. Portable car washing apparatus. 2,390,017; Nov. 27.

War of the United States of America, Secretary of: *See*—
Sherwin, Chalmers W., assignor.

Waring, Robert K.: *See*—
Wagner, I. D., Fetterolf, Waring, and Mahler.

Warrick, Earl L.: *See*—
McGregor, R. R., and Warrick.

Weber, Victor, Greensburg, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Temperature responsive device. 2,389,880; Nov. 27.

Welsh, Samuel J., New York, N. Y. Prophylactice sheath or envelope. 2,389,831; Nov. 27.

Wende, Charles W. J., Arden, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide articles. 2,389,655; Nov. 27.

Wentworth, Philip C., Providence, R. I. Traveler. 2,390,018; Nov. 27.

Wesselman, Albert, Cincinnati, Ohio. Bottle carrier. 2,390,020; Nov. 27.

Western Electric Company, Incorporated: *See*—
Gillis, R., and Morsing, assignors.
Olney, Nathaniel M., assignor.

Westinghouse Electric Corporation: *See*—
Appleman, Theodore C., assignor.
Hanna, C. R., Mikina, and Lynn, assignors.
Parr, Bernard F., assignor.
Woodman, Kenneth L., assignor.

Wetzel, Fred H., Port Huron, Mich., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Shielded ignition lead. 2,389,705; Nov. 27.

Whitaker, Milton C.: *See*—
Ericks, W. P., and Whitaker.

White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,389,881; Nov. 27.
White, John E.: *See*—
Faris, H. P., and White.
Whiting Corporation: *See*—
Walsh, Frank P., assignor.
Wieking, William C.: *See*—
Budden, E. L., and Wieking.
Wiley, Ralph M., assignor to The Dow Chemical Company, Midland, Mich. Treating polymeric vinylidene chloride. 2,390,035; Nov. 27.
Wiley, Richard H.: *See*—
Fisher, N. G., and Wiley.
Williams, Arthur, Munster, Ind., and E. Henkel, Calumet City, Ill., assignors to The Superheater Company, New York, N. Y. Injector. 2,389,656; Nov. 27.
Williams, Francis J., Port Washington, N. Y., and J. A. Orsino, Westfield, N. J., assignors to National Lead Company, New York, N. Y. Storage battery. 2,389,832; Nov. 27.
Williams, Fred D., Jr., assignor to Samuel Ruben, New Rochelle, N. Y. Ignition system. 2,389,639; Nov. 27.
Williams, Philip S., and M. W. Kriegel, Tulsa, Okla., assignors to Standard Oil Development Company. Apparatus for gas analysis. 2,389,706; Nov. 27.
Wilson, Lawrence A.: *See*—
Cleven, O. B., and Wilson.
Winkel, Victor J., Portland, Oreg., assignor to Timber Structures, Inc. Manufacturing laminated building members. 2,389,944; Nov. 27.
Winkler, Albert H., and J. H. Core, assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,390,019; Nov. 27.
Wisler, John J., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Air-cooled offset tip electrode. 2,389,945; Nov. 27.
Wisler, John J., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Fluid-cooled offset tip electrode. 2,389,946; Nov. 27.
Woditsch, Frank J., St. Clair Shores, assignor of one-half to R. C. Patzer, Detroit, Mich. Toy. 2,389,833; Nov. 27.
Wolf, Charles, Trenton, N. J., assignor to Plasco, Inc., New York, N. Y. Decorated handbag. 2,390,021; Nov. 27.
Wood, Sterling A., Smyrna, Ga. Hold-down clamp. 2,390,022; Nov. 27.
Wood, William H., Jr., Ansonia, Conn. Combat knife. 2,389,882; Nov. 27.
Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,389,588; Nov. 27.
Wooster Brass Company, The: *See*—
Schellin, J. C., Housekeeper, and Brubaker, assignors.
Worden, R. B., Granger, Wash. Fish lure. 2,389,883; Nov. 27.
Wyche, Ernest H., Niagara Falls, N. Y., assignor to Carnegie-Illinois Steel Corporation. Treating inherently aging chromium-nickel stainless steel. 2,390,023; Nov. 27.
Wylde, Joseph R., and R. G. Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America. Eye shield. 2,389,707; Nov. 27.
Wyrick, Clayton E., Miami, Fla., assignor to The Egry Register Company, Dayton, Ohio. Web-feeding arrangement. 2,389,834; Nov. 27.
Yard-Man, Inc.: *See*—
Funk, Truman B., assignor.
York, Ernest E., Auburn, assignor to Stanley Dana Corp., Portland, Maine. Apparatus for transmitting voice frequencies over a single grounded line. 2,389,884; Nov. 27.
Young, Furman N.: *See*—
Justice, G. E., Thurston, and Young.
Young, John E., Merchantville, N. J., assignor to Radio Corporation of America. Radio transmitter. 2,389,835; Nov. 27.
Zoiad, John J., Detroit, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating compositions. 2,389,708; Nov. 27.
Zylo Ware Corporation: *See*—
Rey, Eudice, assignor.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Compass, Magnetic. A. A. Stuart, Jr. Re. 22,699; Nov. 27.
Filling body, Loosely dumped. H. Frischer. Re. 22,696; Nov. 27.
Harvester, Ensilage. I. D. McEachern. Re. 22,697; Nov. 27.
Shoe and making same. O. Fern. Re. 22,695; Nov. 27.
Stay, Collar. B. B. Manaster. Re. 22,698; Nov. 27.

# LIST OF PLANT INVENTIONS

Avocado tree. M. M. Graham. 662; Nov. 27.

# LIST OF DESIGN INVENTIONS

Battery charger or similar article. M. L. Pugh. 143,027; Nov. 27.
Bedspread or the like. J. J. Maibach. 143,010–16; Nov. 27.
Billfold. L. Seamon. 143,040–1; Nov. 27.
Bottle. H. Worth and M. D. Goldsmith. 143,057; Nov. 27.
Bottle or similar article. J. S. Steelman. 143,044; Nov. 27.
Bottle, Perfume. H. Gilbert. 142,999; Nov. 27.
Box for children's jewelry. M. M. Forman. 142,996; Nov. 27.
Bracelet or similar article, Flexible band for. V. Guglielmi. 143,001; Nov. 27.
Cabinet, Wall. J. Stanitz. 143,043; Nov. 27.
Cap, Bottle. D. R. Branen. 142,983; Nov. 27.
Cap, Container. P. A. Derham. 142,990–1; Nov. 27.
Casting machine. R. J. Lindsey. 143,009; Nov. 27.
Chair. E. H. Hunter. 143,005; Nov. 27.
Cigarette rest and extinguisher. J. T. Murphy. 143,021; Nov. 27.
Control and instrument panel for, Battery chargers or similar articles. M. L. Pugh. 143,026; Nov. 27.
Control unit, Hoist. H. W. Rockwell. 143,029; Nov. 27.
Door stop. J. D. Shanfield. 143,039; Nov. 27.
Drape festoon. P. L. Hartnett. 143,002; Nov. 27.
Dress. Z. Golden. 143,000; Nov. 27.
Fabric, Textile. D. B. Fuller. 142,997; Nov. 27.
Fork, Kitchen. F. K. Storm. 143,045; Nov. 27.
Fork, Serving. F. K. Storm. 143,046; Nov. 27.
Frame, Display. J. W. Brown. 142,984–5; Nov. 27.
Frame or the like, Picture. E. D. Kissling. 143,007; Nov. 27.
Frame, Picture. F. Coleveski. 142,988; Nov. 27.
Grate. A. Holland. 143,003; Nov. 27.
Handbag frame or similar article. R. C. Ewing. 142,993–5; Nov. 27.
Handle for pots and pans. R. S. Reynolds. 143,028; Nov. 27.
Handle, Oven door. E. W. North. 143,023; Nov. 27.
Hanger and jewel container, Combined coat. W. Melford. 143,020; Nov. 27.
Holder, Candle. C. D. Beltz. 142,979; Nov. 27.
Holder or the like, Lipstick. E. Norman. 143,022; Nov. 27.
Knife, Combination. R. G. Bastien. 142,978; Nov. 27.
Lid, Spatter proof browning. H. G. Archer, Jr. 142,977; Nov. 27.
Lighter. W. E. Keene. 143,006; Nov. 27.
Lighter or similar article, Fluted cigar and cigarette. A. S. Weston. 143,055; Nov. 27.
Lighter, Pocket. A. J. Bruneau and M. Goldsmith. 142,986; Nov. 27.
Marker, Garden. A. Rubenstein. 143,032–8; Nov. 27.
Nipple for nursing bottles. B. O. T. Bery. 142,980; Nov. 27.
Pen, Fountain. M. J. Waldinger. 143,051–3; Nov. 27.
Pencil, Mechanical. M. J. Waldinger. 143,048–50; Nov. 27.
Pendant. J. Rubel. 143,030–1; Nov. 27.
Pendant. W. E. Blackburn. 142,981; Nov. 27.
Photo mount and compartment or article of similar nature, Combination. W. W. Layton. 143,008; Nov. 27.
Saw and rule, Combined. V. R. Pileggi. 143,025; Nov. 27.
Screw driver, Lever type. S. Bloomfield. 142,982; Nov. 27.
Sheet for fragile articles, Packing. E. L. Shepard. 143,042; Nov. 27.
Slip. S. Wolf. 143,056; Nov. 27.
Spoon, Skimming. F. K. Storm. 143,047; Nov. 27.
Spray head or the like. H. Dreyfuss. 142,992; Nov. 27.
Stand and serving tray, Combined smoking. O. Mankki. 143,018; Nov. 27.
Stand, Smoker. M. E. Olin. 143,024; Nov. 27.
Stand, Smoker's. O. Mankki. 143,019; Nov. 27.
Stand, Smoking. O. Mankki. 143,017; Nov. 27.
Table. E. H. Hunter. 143,004; Nov. 27.
Tank or the like, Vacuum cleaner. D. Chapman. 142,987; Nov. 27.
Toaster or similar article. G. W. Walker and K. A. Hopkins. 143,054; Nov. 27.
Tray. A. V. Curry. 142,989; Nov. 27.
Washing machine. A. H. Gerhardt and A. P. Schuls. 142,998; Nov. 27.

# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator. W. A. Lippincott. 2,389,791–2; Nov. 27.
Accumulator plate, Dry charged. M. F. Chubb and P. F. Ebert. 2,389,894; Nov. 27.
Acids, Carboxy substituted pimelic. H. A. Bruson. 2,390,024; Nov. 27.
Acids, Production of di-carboxylic. J. G. M. Bremner, R. H. Stanley, D. G. Jones, and A. W. C. Taylor. 2,389,950; Nov. 27.
Adhering rubbery material to smooth surfaces. D. V. Sarbach. 2,389,641; Nov. 27.
Agents, Asphalt wetting. L. A. Mikeska. 2,389,681; Nov. 27.
Agents for asphalts, Blending. L. A. Mikeska. 2,389,680; Nov. 27.
Agricultural device. N. Z. Hebert. 2,389,976; Nov. 27.
Agricultural machine. G. J. Pasker. 2,389,928; Nov. 27.
Air conditioning. H. T. Stowell. 2,389,698; Nov. 27.
Aircraft combat station. J. C. Trotter. 2,390,013; Nov. 27.
Aircraft protective system. H. E. Baer. 2,389,754; Nov. 27.
Aircraft structure. F. A. Leisen. 2,389,917; Nov. 27.
Airplane shock absorbing device. L. R. Gruss. 2,389,849; Nov. 27.
Airscrew. W. Brierley. 2,389,760; Nov. 27.
Alkenyl cyanides, Preparation of. E. C. Britton, H. S. Nutting, and M. E. Huscher. 2,389,607; Nov. 27.
Alkyd resin varnishes, Modified. G. F. D'Alelio and J. W. Underwood. 2,389,896; Nov. 27.
Anemometer. J. P. Eder. 2,389,615; Nov. 27.
Apparatus and method for washing gels. W. H. Gabeler. 2,389,973; Nov. 27.
Apparatus for communication systems. W. L. Konrad. 2,389,987; Nov. 27.
Apparatus for continuously hot dip coating of tin on coiled strip. C. W. Sherman. 2,390,007; Nov. 27.
Apparatus for forming sheet material. J. W. Greig. 2,389,974; Nov. 27.
Apparatus for gas analysis. P. S. Williams and M. W. Kriegel. 2,389,706; Nov. 27.
Apparatus for making blades for turbo-machines. C. Sequin. 2,389,876; Nov. 27.
Apparatus for making gravity measurements. M. E. Moore. 2,389,866; Nov. 27.
Apparatus for mining. J. B. Mayor. 2,389,920–1; Nov. 27.
Apparatus for operating lathes. C. A. Bickel. 2,389,757; Nov. 27.
Apparatus for removing dust from feathers. O. C. Beardsley. 2,389,715; Nov. 27.
Apparatus for roasting coffee and the like. J. S. Thomas. 2,389,650; Nov. 27.
Apparatus for testing cables and the like. I. Jacoel. 2,389,912; Nov. 27.
Apparatus for the multiplication of images of a body. M. C. De Fonseca. 2,389,843; Nov. 27.
Apparatus for transmitting voice frequencies over a single grounded line. E. E. York. 2,389,884; Nov. 27.
Apparatus for treating metal articles. V. G. Ullmer. 2,389,702; Nov. 27.
Arrangement, Web-feeding. C. E. Wyrick. 2,389,834; Nov. 27.
Article forming machine. N. M. Olney. 2,389,738; Nov. 27.
Articles formed from paper impregnated with polymerised material. E. C. Lee. 2,389,733; Nov. 27.
Automatic antislam check valve. N. J. Ulfsby and A. C. Jensen. 2,390,015; Nov. 27.
Automatic change speed drive for pottery ware jigging apparatus. W. J. Miller. 2,389,629; Nov. 27.
Automatic drilling machine. L. Robbins. 2,389,743; Nov. 27.
Automatic frequency control apparatus. L. F. Mayle. 2,389,992; Nov. 27.
Automatic gain control. Augmented. W. I. Matthews. 2,389,919; Nov. 27.
Automatic gun. J. Dobremysl. 2,389,960; Nov. 27.
Automatic tapping and threading machine. J. Rosenthal. 2,389,998; Nov. 27.
Awning, Cool shade. A. C. Ferguson. 2,389,970; Nov. 27.
Axle, Vehicle. C. S. Ash. 2,389,712; Nov. 27.
Ball and pin handling mechanism for bowling pin setting machines. G. J. Schmidt. 2,389,643; Nov. 27.
Band and handle structure, Glass vessel. J. H. Reichart. 2,389,741; Nov. 27.
Bands, Forming metallic. F. J. Bittermann. 2,389,758; Nov. 27.
Bank, Savings. G. C. Carlson. 2,389,716; Nov. 27.
Batteries, Making dry. A. M. MacFarland. 2,389,674; Nov. 27.
Battery plates, Drying formed. M. F. Chubb and P. F. Ebert. 2,389,893; Nov. 27.
Battery, Storage. F. J. Williams and J. A. Orsino. 2,389,832; Nov. 27.
Bearing. A. Rickenmann. 2,389,687; Nov. 27.
Binding strip apparatus. W. Stuebing, Jr. 2,389,699; Nov. 27.
Blanks, Method and apparatus for straightening. M. E. Anderson. 2,389,885; Nov. 27.
Blind, Venetian. A. T. Castilonia. 2,389,956; Nov. 27.
Board: *See*—
Surf board.
Boat and making same, Sectional. H. A. Mallory. 2,389,799; Nov. 27.
Boat for airplanes, Life. A. P. de Seversky. 2,389,600; Nov. 27.
Bond tightener and sealer. M. S. Harris. 2,389,777; Nov. 27.
Bottle carrier. A. Wesselman. 2,390,020; Nov. 27.
Box for inflatable suits, Detachable junction. R. S. Colley and C. P. Krupp. 2,389,895; Nov. 27.
Box for lathes, Roller. C. S. Harris. 2,389,853; Nov. 27.
Brake. R. A. Goepfrich. 2,389,618; Nov. 27.
Brake mechanism. T. B. Funk. 2,389,972; Nov. 27.
Brake mechanism for baby carriages. S. and N. J. Kroll. 2,389,671; Nov. 27.
Building members, Manufacturing laminated. V. J. Winkel. 2,389,944; Nov. 27.
Building structure. L. Deddo. 2,389,899; Nov. 27.
Burner: *See*—
Oil burner.
Butadiene, Extraction of. E. V. Fasce and L. E. Pirkle. 2,389,658; Nov. 27.
Cabinet: *See*—
Chilling cabinet.
Cable control, Remote. R. Neuschotz. 2,389,737; Nov. 27.
Calcium citrate, Production of. G. M. Cole. 2,389,766; Nov. 27.
Cap: *See*—
Uniform cap.
Car washing apparatus, Portable. F. P. Walsh. 2,390,017; Nov. 27.
Carbine, Automatic and semi-automatic. W. T. Moore. 2,389,631; Nov. 27.
Carburation device for internal-combustion engines. M. L. Mennesson. 2,389,922; Nov. 27.
Carburetor. A. H. Winkler and J. H. Gore. 2,390,019; Nov. 27.
Carpet, Making cemented pile. H. P. Faris and J. E. White. 2,389,657; Nov. 27.
Carrier: *See*—
Bottle carrier.
Carrier and applicator for the treatment of trees. F. R. Reevely. 2,389,870; Nov. 27.
Carton. R. Van Rosen. 2,389,703; Nov. 27.
Case: *See*—
Traveling case.
Cements, Plastic sealing. J. D. Morgan and R. E. Lowe. 2,389,926; Nov. 27.
Chain: *See*—
Cutter chain.
Charge preparation. I. D. Wagner, L. D. Fetterolf, R. K. Waring, and G. T. Mahler. 2,390,016; Nov. 27.
Charger motor. G. W. Pontius, III. 2,389,996; Nov. 27.
Chemical process and product. F. J. Soday. 2,389,647; Nov. 27.
Chilling cabinet. T. R. Paulson. 2,390,030; Nov. 27.
Chopper, Revolving. L. W. Leeper. 2,389,790; Nov. 27.
Chuck, Drill. H. H. Talboys and H. E. Erickson. 2,389,749; Nov. 27.
Circuit breaker. A. B. Rypinski. 2,389,999; Nov. 27.
Circuit breaker operating system. C. Thumim, E. J. Frank, and A. C. Boisseau. 2,389,942; Nov. 27.
Clamp: *See*—
Hold-down clamp. Scaffold clamp.
Hose clamp.
Cleaner: *See*—
Suction cleaner.
Clearer as used in combing machine or other machine for the treatment of textile fibers. D. Pierrepont. 2,389,684; Nov. 27.
Clip. O. C. Eckel. 2,389,964–5; Nov. 27.
Closure, Container. A. Burgeni. 2,389,761; Nov. 27.
Clutch: *See*—
One-way clutch.
Clutch. S. Gilbert. 2,389,772; Nov. 27.
Coating compositions. J. J. Zelad. 2,389,708; Nov. 27.
Coating from nonconjugated oils, Wrinkle. E. L. Luaces. 2,389,794–5; Nov. 27.





Coating material, Luminescent. S. Isenberg. 2,389,781; Nov. 27.
Collar, Cervical. F. Schreiber. 2,389,690; Nov. 27.
Collet, Pot chuck. L. M. Odom and J. H. Lambert. 2,389,633; Nov. 27.
Comparison apparatus, Frequency. A. H. Bartels. 2,389,948; Nov. 27.
Compass, Magnetic. G. M. Giannini. 2,389,664; Nov. 27.
Condensation products and derivatives thereof, Guanidine. W. P. Ericks and M. C. Whitaker. 2,389,723; Nov. 27.
Construction unit, Building. R. W. McLaughlin, Jr. 2,389,863; Nov. 27.
Container. J. E. Borah. 2,389,890; Nov. 27.
Container-opening tool. C. E. Stafford. 2,389,648; Nov. 27.
Contour for rotor teeth, Elliptical. M. F. Hill. 2,389,728; Nov. 27.
Control device for rotor blades, Pitch. D. W. Main. 2,389,798; Nov. 27.
Control for machine tools, Electric. S. H. Caldwell, J. J. Jaeger, and R. Taylor. 2,389,594; Nov. 27.
Control system, Mixture. C. I. MacNeil and F. C. Mock. 2,389,797; Nov. 27.
Conveyor and loader, Portable. R. H. and F. F. Blank. 2,389,759; Nov. 27.
Cores, Method of and apparatus for applying material to advancing. R. Gillis and W. Morsing. 2,389,725; Nov. 27.
Coupling: *See*—
Fire hose coupling. Fluid coupling.
Cutter chain. E. Rupp. 2,389,936; Nov. 27.
Cutter shifting apparatus for cloth shears. G. E. Marble. 2,389,800; Nov. 27.
Cutting and counting machine. G. J. Kennedy. 2,389,783; Nov. 27.
Cutting or welding machine, Plate. J. L. Anderson. 2,389,585; Nov. 27.
Cutting weft thread ends projecting from the fabric, Method and device for. A. Moessinger. 2,389,809; Nov. 27.
Dampening mechanism for printing presses. G. A. Iler. 2,389,730; Nov. 27.
Deflector for bottle fillers, Condensate. A. J. Lippold. 2,389,672; Nov. 27.
Defroster and drier, Universal automotive vehicle windshield. L. V. Villani. 2,389,704; Nov. 27.
Device for making fabrics on gripper looms. A. Moessinger. 2,389,808; Nov. 27.
Diaphragm operated valve. P. B. Drane. 2,389,720; Nov. 27.
Disk gang assembly. R. H. Mitchell. 2,389,993; Nov. 27.
Dispenser: *See*—
Pie pan dispenser.
Tooth powder and paste dispenser.
Dispensing device, Missile. F. H. Hagner. 2,389,851; Nov. 27.
Dispensing device, Refrigerated bottle. T. F. Green, Jr. 2,389,619; Nov. 27.
Display, Advertising. E. Borregard. 2,389,606; Nov. 27.
Display with effect of animation, Luminous. F. Hotchner. 2,389,911; Nov. 27.
Distillation method and apparatus. A. Latham, Jr. 2,389,789; Nov. 27.
Distributor. E. Erickson. 2,389,845; Nov. 27.
Dithiophosphates, Disubstituted. A. R. Davis. 2,389,718; Nov. 27.
Dolly. A. J. Acker. 2,389,584; Nov. 27.
Door lock. W. R. Schlage. 2,389,819; Nov. 27.
Dowel setting machine. J. A. Golden. 2,389,773; Nov. 27.
Dress shield and crossed-tape support. E. Harpootlian. 2,389,776; Nov. 27.
Drier: *See*—
Nail polish drier.
Drying apparatus. B. R. Andrews. 2,389,586; Nov. 27.
Electric beating apparatus and heating crank case oils.
Drive mechanism, Milling machine. R. K. Le Blond and H. C. Kemper. 2,389,627; Nov. 27.
Drum brake for use in general engineering. L. Burgerstein. 2,389,953; Nov. 27.
Drum, Strand engaging. D. D. Symmes. 2,389,878; Nov. 27.
J. D. Morgan and P. B. Levitt. 2,389,925; Nov. 27.
Electric nail filler. H. Harris. 2,389,665; Nov. 27.
Electric valve translating apparatus, and operating the same. B. D. Bedford. 2,389,889; Nov. 27.
Electrical capacitors, Manufacture of. A. J. Deyrup and K. H. Ballard. 2,390,025; Nov. 27.
Electrical conductor, Insulated. G. Slayter and A. L. Simison. 2,390,039; Nov. 27.
Electrode, Air-cooled offset tip. J. J. Wisler. 2,389,945; Nov. 27.
Electrode, Fluid-cooled offset tip. J. J. Wisler. 2,389,946; Nov. 27.
Electrode holder. G. M. Fadeley. 2,389,969; Nov. 27.
Electrode holder. W. E. Smith. 2,389,938; Nov. 27.
Electrolytic process for treating a ferrous sulphate solution. E. A. Schumacher and G. W. Heise. 2,389,691; Nov. 27.
Electronic apparatus. W. C. Hahn. 2,389,903; Nov. 27.
Electroplating apparatus. F. W. Hampson. 2,389,904; Nov. 27.
Emergency gasoline tank. W. H. Pike. 2,389,685; Nov. 27.
Emulsions, Aqueous polyisobutylene. G. P. Mack. 2,389,796; Nov. 27.
Engine: *See*—
Oscillatory engine.
Envelope. R. K. Stone and F. O. Brougham. 2,389,747; Nov. 27.
Envelope. W. E. Swift. 2,389,748; Nov. 27.
Ester products of 12-hydroxystearic acid. M. J. Hunter. 2,390,027; Nov. 27.
Esters, Preparation of acrylic. H. T. Neher and S. C. Kelton, Jr. 2,390,028; Nov. 27.
Ethylene, Conversion of. V. N. Ipatieff and V. Haensel. 2,389,780; Nov. 27.
Exchanger, Heat. A. Y. Gunter. 2,389,850; Nov. 27.
Explosive composition. K. M. Gaver. 2,389,771; Nov. 27.
Exposure meter. G. E. Freund. 2,389,617; Nov. 27.
Exterminating machine, Boll weevil. G. L. McCay. 2,389,677; Nov. 27.
Extinguishing fires and fluid used therein. L. G. M. Timpson. 2,389,652; Nov. 27.
Extractor: *See*—
Honey extractor.
Extractor. L. McGihon. 2,389,862; Nov. 27.
Fan attachment. S. Taylor. 2,389,700; Nov. 27.
Fastener. B. C. Place. 2,389,635; Nov. 27.
Fat-soluble vitamin concentrates, Producing. L. O. Buxton. 2,389,955; Nov. 27.
Faucet, Swing spout mixing. J. J. Delany. 2,389,599; Nov. 27.
Feed mechanism. C. Paulsen. 2,389,929; Nov. 27.
Feed pusher. C. S. Kasper. 2,389,913; Nov. 27.
Feeding system, Conveyer. J. W. Stiles. 2,389,696; Nov. 27.
Fibers, Treatment of cellulosic. J. W. Stallings. 2,390,032; Nov. 27.
Filing receptacle. O. L. Cleven and L. A. Wilson. 2,389,612; Nov. 27.
Filter. W. B. Pond and G. R. Holt. 2,389,814; Nov. 27.
Fire hose coupling. T. R. Smith. 2,389,825; Nov. 27.
Fire hose, Fabric. J. W. Stallings. 2,390,033; Nov. 27.
Fish lure. R. B. Worden. 2,389,883; Nov. 27.
Fishing line reel. D. Dileo. 2,389,602; Nov. 27.
Flare or fusee. S. Jackson, Jr. 2,389,782; Nov. 27.
Flavor, Powdered. K. M. Gaver. 2,389,770; Nov. 27.
Flow indicator. L. L. Dollinger. 2,389,603; Nov. 27.
Flowmeter. C. E. Cox. 2,389,957; Nov. 27.
Fluid coupling. D. J. Conant. 2,389,841; Nov. 27.
Fluid pressure motor. A. L. Grisé. 2,389,621; Nov. 27.
Folding table. W. J. Pendry. 2,389,930; Nov. 27.
Frame: *See*—
Spectacle frame. Structural frame.
Frame construction for receptacles. M. L. Lindy. 2,389,916; Nov. 27.
Frequency modulation. H. Tunick. 2,389,879; Nov. 27.
Friction wheel change speed gear. J. Arter. 2,389,589; Nov. 27.
Fuel, Production of motor. J. P. Jones. 2,389,984; Nov. 27.
Furniture, Article of. G. E. O'Hearn. 2,389,994; Nov. 27.
Gases and vapors, Cracking hydrocarbon. C. F. Ramseyer. 2,389,636; Nov. 27.
Gasifier, Engine fuel. E. G. Baker. 2,389,714; Nov. 27.
Gauge: *See*—
Temperature compensated gauge.
Gauge for use in welding. W. H. Cummins. 2,389,842; Nov. 27.
Gauging mechanism, Centerless grinder. E. L. Kuhns. 2,389,787; Nov. 27.
Gear: *See*—
Friction wheel change speed gear.
Generator: *See*—
Steam generator.
Glass coffee maker adjustable handle. J. H. Reichart. 2,389,740; Nov. 27.
Grinder and tool dresser, Combination. C. S. Rose. 2,389,871; Nov. 27.
Grinding machine, Thread. G. Brinkmann. 2,389,590; Nov. 27.
Gripping device. F. J. Beech. 2,389,756; Nov. 27.
Guide, Rod. W. J. Heard. 2,389,906; Nov. 27.
Gun charger. A. C. Wall. 2,389,943; Nov. 27.
Gun emplacement, Mobile. C. L. Hervey. 2,389,623; Nov. 27.
Gun turret. G. W. Pontius, III, and R. J. Reek. 2,389,997; Nov. 27.
Gyroscope. C. R. Hanna, S. J. Mikina, and L. B. Lynn. 2,389,775; Nov. 27.
Handbag, Decorated. C. Wolf. 2,390,021; Nov. 27.
Handle: *See*—
Glass coffee maker adjustable handle.
Handling method, Sheet. A. L. Hess. 2,389,854; Nov. 27.
Heating apparatus. T. C. Appleman. 2,389,587; Nov. 27.
Heating apparatus. K. L. Woodman. 2,389,588; Nov. 27.
Heating unit. T. E. Brown. 2,389,839; Nov. 27.
Helmet, Welder's. L. A. Severy. 2,390,006; Nov. 27.
High pressure centrifugal pump. C. L. Babb. 2,389,753; Nov. 27.
Hold-down clamp. S. A. Wood. 2,390,022; Nov. 27.

Holder: *See*—
Electrode holder.
Holder. M. Cohen. 2,389,717; Nov. 27.
Honey extractor. W. T. Kelley. 2,389,669; Nov. 27.
Hose clamp. J. T. King. 2,389,785; Nov. 27.
Hydraulic braking system. B. E. House. 2,389,978; Nov. 27.
Hydraulic drive. R. Tyler. 2,389,830; Nov. 27.
Hydraulic duplicating mechanism and directional control. M. Turchan and C. Walker. 2,389,653; Nov. 27.
Hydraulic floor crane. K. A. Ruger and B. Hilton. 2,389,872; Nov. 27.
Hydraulic remote control system. L. E. Dougherty. 2,389,962–3; Nov. 27.
Hydrocarbon conversion. A. H. Schutte and V. O. Bowles. 2,390,031; Nov. 27.
Hydrocarbon materials, Treatment of saturated. F. E. Frey. 2,389,971; Nov. 27.
Hydrocarbons by the action of liquid aluminum halide-hydrocarbon complex, Catalytically converting. L. R. Strawn. 2,389,651; Nov. 27.
Hydrocarbons, Conversion of. H. V. Atwell. 2,389,713; Nov. 27.
Hydrocarbons, Conversion of. E. F. Pevere. 2,389,739; Nov. 27.
Hydrocarbons, Processing of. E. W. M. Fawcett and E. S. Narracott. 2,389,659; Nov. 27.
Ignition lead, Shielded. F. H. Wetzel. 2,389,705; Nov. 27.
Ignition system. S. Ruben. 2,389,638; Nov. 27.
Ignition system. F. D. Williams, Jr. 2,389,639; Nov. 27.
Ignition system, High frequency. S. Ruben. 2,389,637; Nov. 27.
Ignition system, High frequency. S. Ruben. 2,389,640; Nov. 27.
Illuminator for flashlights, Color. Le R. O. Brown. 2,389,591; Nov. 27.
Impulse sender. H. T. Stenhammer. 2,389,695; Nov. 27.
Indexing mechanism for automatic machines. L. O. Robbins. 2,389,744; Nov. 27.
Indexing mechanism for machine tables. A. M. Johnson. 2,389,668; Nov. 27.
Indicator: *See*—
Flow indicator.
Mosaic sensitivity indicator.
Parking indicator.
Injector. A. Williams and E. Henkel. 2,389,656; Nov. 27.
Inspection machine. R. C. Timm and J. Rothfuss. 2,390,012; Nov. 27.
Internal-combustion rotary motor. H. Mossbach. 2,389,632; Nov. 27.
Iron ores, Flotation of. E. C. Herkenhoff. 2,389,727; Nov. 27.
Iron powder, Production of. E. Mehl. 2,389,734; Nov. 27.
Isomerization process. E. W. M. Fawcett and E. S. Narracott. 2,389,660; Nov. 27.
Jacket, Lifesaving. H. G. Morner. 2,389,735; Nov. 27.
Jar, Well. A. L. Armentrout. 2,389,711; Nov. 27.
Jarring tool. A. L. Armentrout. 2,389,710; Nov. 27.
Ketone-urea-formaldehyde condensation products. W. Nebel. 2,389,682; Nov. 27.
Kit for toilet purposes. B. Charnas and A. Malina. 2,389,596; Nov. 27.
Knife, Combat. W. H. Wood, Jr. 2,389,882; Nov. 27.
Knitting machine attachment. J. A. Ruth. 2,389,688; Nov. 27.
Knob adapter. T. S. Christenson, Jr. 2,389,610; Nov. 27.
Ladder construction. D. S. Sampson. 2,390,000; Nov. 27.
Lathe and making the same. S. W. Sparks and E. J. Lomazzo. 2,389,746; Nov. 27.
Lighting fixture, Auxiliary. W. F. Burke. 2,389,762; Nov. 27.
Linoleum manufacture, Molded inlaid. J. L. Berger. 2,389,836; Nov. 27.
Liquid-supplying device. J. L. Schwabe, Jr. 2,389,820; Nov. 27.
Lock: *See*—
Door lock.
Universal rotary drive lock.
Locking and setting device. J. T. Phipps. 2,389,869; Nov. 27.
Looper mechanism, Sewing machine. E. Muecke. 2,389,867; Nov. 27.
Lubricants, Low temperature. J. D. Morgan. 2,389,924; Nov. 27.
Lubricated wedge seal valve. W. Kerr and W. G. Stolberg. 2,389,670; Nov. 27.
Machine for hobbing. S. M. Ransome. 2,389,815; Nov. 27.
Marine power unit. A. G. Forsyth. 2,389,663; Nov. 27.
Marking mechanism, Bobbin. H. Lambert. 2,389,859; Nov. 27.
Measuring device, Azimuth and altitude. F. H. Hagner. 2,389,852; Nov. 27.
Meter: *See*—
Exposure meter.
Mechanical action. F. W. Anders. 2,389,709; Nov. 27.
Metal strip and the like, Processing of. F. S. Schindler. 2,390,001; Nov. 27.
Microphonic electron tube. J. Rothstein. 2,389,935; Nov. 27.
Mill. F. A. Beatty. 2,389,888; Nov. 27.
Mixed material separator. J. A. Erickson. 2,389,966; Nov. 27.
Molding compositions. J. K. Speicher. 2,389,940; Nov. 27.
Molding machine, Block. H. L. Lofdahl. 2,389,673; Nov. 27.
Mosaic sensitivity indicator. L. F. Mayle. 2,389,991; Nov. 27.
Motor: *See*—
Charger motor.
Fluid pressure motor.
Internal-combustion rotary motor.
Motor control system. H. T. Sparrow. 2,389,939; Nov. 27.
Motor unit, Hydraulic. J. B. Van Der Werff. 2,389,654; Nov. 27.
Mounting. W. V. Goodhue. 2,389,726; Nov. 27.
Mounting for cylinders, End cap. T. R. Smith. 2,389,824; Nov. 27.
Mounting for explosionproof motors. W. H. De Lancey. 2,389,900; Nov. 27.
Mounting for license plate frames or the like. H. E. Davis. 2,389,897; Nov. 27.
Nail cleaning apparatus. W. Thompson. 2,390,011; Nov. 27.
Nail polish drier. P. G. Simmons. 2,389,822; Nov. 27.
Needle control and an electrically operated stop motion for warping or beaming plants, Drop. F. Lambach and W. Siegel. 2,389,625; Nov. 27.
Nozzle fitting, Right-left. C. Hollerith. 2,389,977; Nov. 27.
Nozzle, Four-way. J. C. Schellin, E. J. Housekeeper, and W. H. Brubaker. 2,389,642; Nov. 27.
Nozzle, Locomotive exhaust. J. W. Hulson. 2,389,980; Nov. 27.
Nut, Anchor. R. W. Luce. 2,389,989; Nov. 27.
Nut assembler, Lock. L. F. Glaude. 2,389,902; Nov. 27.
Nut grinding machine. J. C. V. Richardson. 2,389,816; Nov. 27.
Nut, Lock. R. L. Park. 2,389,634; Nov. 27.
Oil burner. B. F. Castle. 2,389,892; Nov. 27.
Oil, Lubricating and penetrating. J. B. Calva. 2,389,608; Nov. 27.
One-way clutch. A. Y. Dodge. 2,389,961; Nov. 27.
Operation of printing machines, Method and mechanism for controlling the. E. L. Budden and W. C. Wieking. 2,389,891; Nov. 27.
Organic liquids, Treatment of. J. L. Kellogg. 2,389,732; Nov. 27.
Organo-siliconhalides, Producing. C. E. Reed and J. T. Coe. 2,389,931; Nov. 27.
Organo-siloxanes, Stabilizing. R. R. McGregor and E. L. Warrick. 2,389,802–7; Nov. 27.
Oscillatory engine. T. L. Chard. 2,389,764; Nov. 27.
Oscilloscope, Polar coordinate. O. W. Packer. 2,389,995; Nov. 27.
Packaging sliced loaves. G. C. Papendiek. 2,389,812; Nov. 27.
Packer, Retractable. G. E. Justice, F. M. Thurston, and F. N. Young. 2,389,985; Nov. 27.
Paper handling mechanism for duplicating machines. J. L. Gibson and E. W. Peterson. 2,389,848; Nov. 27.
Paraffins, Production of tertiary. O. H. Dawson. 2,389,598; Nov. 27.
Parimutuel system. C. Smith. 2,389,823; Nov. 27.
Parking indicator. J. Hickey. 2,389,908; Nov. 27.
Picker and the manufacture of the same, Box. J. J. Brown. 2,389,952; Nov. 27.
Pie pan dispenser. L. J. Harriss and B. Lambers. 2,389,905; Nov. 27.
Pin: *See*—
Safety mine car coupling pin.
Plasticized compositions. R. T. Dean. 2,389,959; Nov. 27.
Plug: *See*—
Spark plug.
Pocket, Sanitary detachable. I. Stoeckert. 2,389,697; Nov. 27.
Pocket, Simulated patch. J. P. Durso. 2,389,721; Nov. 28.
Poles and the like, Joint for. H. Oslek. 2,389,811; Nov. 27.
Polyamide articles. C. W. J. Wende. 2,389,653; Nov. 27.
Polyamides, Linear. R. L. Martin. 2,389,628; Nov. 27.
Polymeric materials, Recovery of. J. W. C. Crawford and A. D. Jones. 2,389,959; Nov. 27.
Polymeric vinylidene chloride, Treating. R. M. Wiley. 2,390,035; Nov. 27.
Polymers. N. G. Fisher and R. H. Wiley. 2,389,662; Nov. 27.
Polymers from olefins, Producing high molecular weight. W. J. Sparks and R. M. Thomas. 2,389,693; Nov. 27.
Power plant for aircraft. A. H. R. Fedden, F. M. Owner, F. M. Thomas, and S. W. Mansell. 2,389,778; Nov. 27.
Power take-off. C. Gerst. 2,389,847; Nov. 27.
Power transmission apparatus for track-laying vehicles. H. A. Knox and B. F. Baker. 2,389,624; Nov. 27.
Preparation of vinyl halides. W. A. Lazier. 2,389,626; Nov. 27.
Press. F. J. Rode and M. R. Hatch. 2,389,818; Nov. 27.





Projectile, High velocity. G. R. Ericson. 2,389,846; Nov. 27.
Prophylactic sheath or envelope. S. J. Welsh. 2,389,831; Nov. 27.
Protective system, Polyphase. R. P. De Anthony. 2,389,613; Nov. 27.
Protein sheet material and making the same. F. C. Atwood. 2,389,605; Nov. 27.
Pulveriser. G. B. Ebersole. 2,389,844; Nov. 27.
Pump: *See*—
High pressure centrifugal pump.
Reciprocating pump.
Rack for shoes or like articles, Foldable, and suspendable. H. E. Hoffman. 2,389,910; Nov. 27.
Radio program preselector, Time-controlled. K. J. Magnusson. 2,389,990; Nov. 27.
Radio transmitter. J. E. Young. 2,389,835; Nov. 27.
Rate determining mechanism. J. K. Macomber. 2,389,861; Nov. 27.
Recap tire balancing wheel. F. Sherwood and C. J. Kriz. 2,390,008; Nov. 27.
Receptacle: *See*—
Fuse receptacle.
Receptacle and making it. W. J. De Witt. 2,389,601; Nov. 27.
Reciprocating pump. C. D. Macgill. 2,389,918; Nov. 27.
Recorder. L. M. Swift. 2,389,828; Nov. 27.
Recording apparatus. I. M. Stein. 2,389,827; Nov. 27.
Rectifier system. H. H. and W. W. Seifert. 2,390,005; Nov. 27.
Reel: *See*—
Fishing line reel.
Refrigerating apparatus. N. Erland af Kleen. 2,389,967; Nov. 27.
Refrigeration. N. Erland af Kleen. 2,389,968; Nov. 27.
Register, Pin wheel. W. C. Pfeiffer. 2,389,813; Nov. 27.
Regulator mechanism. J. B. Parsons. 2,390,029; Nov. 27.
Relay structure. H. E. Bucklen, Jr., and U. C. Hedin. 2,389,592; Nov. 27.
Remote control. R. Tyler. 2,389,829; Nov. 27.
Remote control system. T. W. Hays. 2,389,975; Nov. 27.
Remote indicating system. C. W. Sherwin. 2,389,692; Nov. 27.
Repellent, Shark. A. Dinsley. 2,389,719; Nov. 27.
Resin and preparation, Artificial. G. F. Mills and A. V. Alm. 2,389,865; Nov. 27.
Resin coating compositions, Alkyd. C. Bogin. 2,389,837; Nov. 27.
Resistance device, Variable. B. S. Turner, M. B. Arisman, and J. G. Veatch. 2,389,750; Nov. 27.
Resistor device. J. J. Kleimack and G. L. Pearson. 2,389,915; Nov. 27.
Rigging, Brush. H. M. Stephenson. 2,389,941; Nov. 27.
Riveter, Compression. H. R. Fischer. 2,389,661; Nov. 27.
Rotary cutting tool. F. Hofbauer. 2,389,909; Nov. 27.
Rubber lubricant. H. G. Johnson. 2,389,855; Nov. 27.
Safety mine car coupling pin. J. W. Shealy. 2,389,821; Nov. 27.
Sandblasting and apparatus therefor. G. Franklin. 2,389,616; Nov. 27.
Scaffold clamp. M. Artique. 2,389,751; Nov. 27.
Sealing device for pivotal joints. A. Searles and C. A. Swartz. 2,389,874; Nov. 27.
Separating apparatus. A. A. Clark and H. W. Hooper. 2,389,611; Nov. 27.
Separation of mineral values from ores. F. J. Cahn. 2,389,763; Nov. 27.
Separator: *See*—
Mixed material separator.
Silencer and solid particle separator.
Sewing machine attachment. H. H. Russell. 2,389,745; Nov. 27.
Shade attachment, Window. A. H. Cadieux. 2,389,593; Nov. 27.
Sharpening device, Drill. J. Michelson. 2,389,679; Nov. 27.
Sheet and making same, Soap. J. H. Muise. 2,389,736; Nov. 27.
Sheet, Powder fiber. E. J. Merrell. 2,389,678; Nov. 27.
Shield, Eye. J. R. Wylde and R. G. Perry. 2,389,707; Nov. 27.
Shoulder pad blanks, Method of and apparatus for fabricating. I. Rothenberg, S. Kagen, and S. J. Gurewitz. 2,389,934; Nov. 27.
Signal reproducing apparatus. H. W. Becker. 2,389,949; Nov. 27.
Signaling apparatus, Railway. H. A. Talbert and C. E. Staples. 2,390,010; Nov. 27.
Signaling apparatus, Variable intensity light. R. E. and D. E. Stark. 2,389,649; Nov. 27.
Signaling, Method of and apparatus for. K. Kohn. 2,389,786; Nov. 27.
Signaling system, Coded railway. A. L. Jerome. 2,389,982; Nov. 27.
Signals to start stop signals, Conversion of synchronous type. R. E. Mathes. 2,389,675; Nov. 27.
Silencer and solid particle separator. R. L. Leadbetter. 2,389,988; Nov. 27.
Sizing, Pneumatic. E. C. Truesdale. 2,389,701; Nov. 27.
Snubber. A. W. Bruce. 2,389,840; Nov. 27.
Soaps, Preparation of basic heavy metal. H. Schiller. 2,389,873; Nov. 27.
Solutions, Permanent wave. G. S. Baker. 2,389,755; Nov. 27.
Spark plate and rail for pig casting machines, Water cooled. H. O. Johnson and M. O'Hare. 2,389,983; Nov. 27.
Spark plug. C. Cipriani and C. J. Eaton. 2,389,597; Nov. 27.
Spectacle frame. E. Rey. 2,389,742; Nov. 27.
Speed governor for motion-picture cameras, Variable. T. I. Ress. 2,389,932; Nov. 27.
Sprayhead, Nonsiphon shampoo. J. N. Mayhew. 2,389,676; Nov. 27.
Sprayer for medicinal preparations, Atomizing. H. J. Miller. 2,389,864; Nov. 27.
Stall, Shower. L. A. Falco. 2,389,724; Nov. 27.
Steam generator. E. J. De Cota. 2,389,898; Nov. 27.
Steel, Scaling stainless. A. W. Bromberg. 2,389,838; Nov. 27.
Steel, Treating inherently aging chromium-nickel stainless. E. H. Wyche. 2,390,023; Nov. 27.
Steering mechanism, Semitrailer. D. B. Avery. 2,389,752; Nov. 27.
Stethoscope, Accoustic. H. F. Olson. 2,389,868; Nov. 27.
Stick, Plastic picker. O. L. Carter and T. A. Putnam. 2,389,595; Nov. 27.
Stock, Making gold filled. T. C. Jarrett. 2,389,981; Nov. 27.
Stock straightener. H. J. Shibovich. 2,389,644; Nov. 27.
Stocking and producing the same, Full-fashioned. P. Schmidt. 2,390,003; Nov. 27.
Storage system, Polar relay. J. A. Spencer. 2,389,694; Nov. 27.
Stretcher, Garment. A. C. Schoepfer and J. W. Parker. 2,390,004; Nov. 27.
Stretching and spudding machine. W. Green. 2,389,620; Nov. 27.
Stringing machine, Racquet. M. Caro and G. Lambet. 2,389,609; Nov. 27.
Structural frame. N. W. Dalton. 2,389,767; Nov. 27.
Structural material, Double-wall. R. H. Folsom. 2,389,769; Nov. 27.
Stud setting device. J. V. Walker. 2,390,034; Nov. 27.
Styrene, Manufacture of. W. J. Mattox. 2,389,801; Nov. 27.
Styrene, Production of. J. W. Livingston. 2,389,793; Nov. 27.
Suction cleaner. E. L. Snyder. 2,389,877; Nov. 27.
Suction cleaner. H. B. White. 2,389,881; Nov. 27.
Sulphur from sulphurous gases, Recovering elemental. W. W. Odell and W. D. Harbert. 2,389,810; Nov. 27.
Support: *See*—
Dress shield and crossed-tape support.
Surf board. L. S. Howland. 2,389,729; Nov. 27.
Surface active agents. M. Senkus. 2,389,875; Nov. 27.
Switch: *See*—
Time-delay relay switch.
Table: *See*—
Folding table.
Table for handling eggs, Work. W. E. Mitton. 2,389,630; Nov. 27.
Tank: *See*—
Emergency gasoline tank.
Telephone system. R. H. Herrick. 2,389,666; Nov. 27.
Television system. G. E. Sleeper. 2,389,645–6; Nov. 27.
Television system, Color. G. W. Huffnagle. 2,389,979; Nov. 27.
Temperature compensated gauge. A. C. Ruge. 2,390,038;
Temperature control by overhead ventilation. T. J. Lehane and E. H. Burgess. 2,389,860; Nov. 27.
Temperature control for hydrocarbon oil processing. L. F. Dowding. 2,389,604; Nov. 27.
Temperature responsive device. V. Weber. 2,389,880; Nov. 27.
Thermostat. F. and J. Reingruber. 2,389,686; Nov. 27.
Thread control system for looms, Pneumatic. R. G. Turner. 2,390,014; Nov. 27.
Thread-cutting apparatus. H. Kayfetz. 2,389,857; Nov. 27.
Tie-holding attachment. W. I. Kennedy. 2,389,784; Nov. 27.
Time-delay relay switch. W. Jones. 2,389,856; Nov. 27.
Toaster apparatus. B. F. Parr. 2,389,927; Nov. 27.
Tool: *See*—
Container-opening tool.
Jarring tool.
Tool control, Machine. C. Johnson. 2,389,731; Nov. 27.
Tool holder assembly. A. Kyle and J. A. Johnson. 2,389,858; Nov. 27.
Tooth powder and paste dispenser. J. H. Page. 2,389,683; Nov. 27.
Torque converter. E. A. Stalker. 2,389,826; Nov. 27.
Toy. F. J. Woditsch. 2,389,833; Nov. 27.
Toy bomb. F. Schloss. 2,390,002; Nov. 27.
Transidithiocyanoethylene as a fungicide. K. G. Nolan. 2,390,037; Nov. 27.
Traveler. P. C. Wentworth. 2,390,018; Nov. 27.
Traveling case. H. Lathrop. 2,389,788; Nov. 27.
Tray follower construction, Card. K. H. Miller. 2,389,923; Nov. 27.
Tread, Tank. C. L. Eksergian and R. B. Temple. 2,389,722; Nov. 27.
Truck, Railway. K. Douglass and C. R. Moline. 2,389,614; Nov. 27.

Trucks and the like, Preventing the unauthorized operation of industrial. C. E. Cochran. 2,389,765; Nov. 27.

Tube: *See*—
Microphonic electron tube.

Tube bending machine. A. Schmitt. 2,389,937; Nov. 27.

Tufted articles, Method and machine for making. J. S. Kile. 2,389,914; Nov. 27.

Tuning system, Permeability. W. R. Koch. 2,389,986; Nov. 27.

Tuning system, Variable. H. B. Stott. 2,390,009; Nov. 27.

Uniform cap. E. F. Scheppler. 2,389,689; Nov. 27.

Universal rotary drive lock. J. Bardega. 2,389,886; Nov. 27.

Unloading device, Coal truck. E. H. Heller. 2,389,779; Nov. 27.

Valve: *See*—
Automatic antislam check valve.
Diaphragm operated valve.
Lubricated wedge seal valve.

Valve. E. F. Allen. 2,389,947; Nov. 27.

Valve control, Fluid. J. L. Hudson. 2,389,667; Nov. 27.

Valve for sprinkler systems. H. N. Rider. 2,389,817; Nov. 27.

Valve mechanism for spaghetti canning machines. G. M. Gillen. 2,389,901; Nov. 27.

Valve stem. O. W. Hosking. 2,390,026; Nov. 27.

Valve unit. B. Baxter and S. M. Kandarian. 2,389,887; Nov. 27.

Vehicle structure. L. W. Helmuth. 2,389,907; Nov. 27.

Vulcanization with diaryl guanidine addition products. A. R. Davis. 2,390,036; Nov. 27.

Wall construction for heaters. W. C. Hensel. 2,389,622; Nov. 27.

Washing machine. A. H. Haberstump. 2,389,774; Nov. 27.

Watchcase wrench. C. A. Burns. 2,389,954; Nov. 27.

Wheel: *See*—
Recap tire balancing wheel.

Wire structure and method and apparatus for making the same, Broomed stranded. A. E. Brickman. 2,389,951; Nov. 27.

Wrench: *See*—
Watchcase wrench.

Wrench. A. Rober. 2,389,933; Nov. 27.

Wringer, Pivotal frame. N. L. Etten. 2,389,768; Nov. 27.


# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 27, 1945

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

2— 8: 2,390,006
14: 2,389,707
21: 2,389,831
56: 2,389,776
132: Re. 22,606
195: 2,389,689
247: 2,389,697
2,389,721
8—116.2: 2,390,032
2,390,033
9— 2: 2,389,799
11: 2,389,729
30: 2,389,735
10— 89: 2,389,857
138: 2,389,998
155: 2,389,902
15— 9: 2,389,877
16: 2,389,881
53: 2,390,017
18— 54: 2,389,655
19— 116: 2,389,684
20— 0.5: 2,389,709
40.5: 2,389,704
21— 74: 2,389,698
22— 62: 2,389,983
23— 225: 2,389,810
254: 2,389,706
24— 6: 2,389,717
19: 2,389,777
2,389,785
49: 2,389,784
71: 2,389,741
25— 26: 2,389,629
41: 2,389,673
26— 15: 2,389,800
28— 51: 2,389,625
71.3: 2,389,878
29—25.42: 2,390,025
61: 2,389,913
156: 2,389,758
188: 2,389,981
30— 151: 2,389,648
340: 2,389,882
33— 69: 2,389,852
169: 2,389,842
204: Re. 22,609
205: 2,389,851
223: 2,389,664
34— 67: 2,389,650
68: 2,389,586
202: 2,389,822
36—19.5: Re. 22,605
40— 125: 2,389,897
132: 2,389,843
139: 2,389,911
41— 34: 2,390,021
42— 3: 2,389,631
43— 46: 2,389,883
140: 2,389,677
46— 1: 2,390,002
104: 2,389,833
123: 2,389,606
47—57.5: 2,389,870
62: Pl. Pt. 662
51— 12: 2,389,616
95: 2,389,590
103: 2,389,787
164: 2,390,011
166: 2,389,871
219: 2,389,679
52— 11: 2,389,771
56— 16: Re. 22,607
57— 125: 2,390,018
60— 41: 2,389,632
53: 2,389,830
54: 2,389,841
54.5: 2,389,962
2,389,963
60—54.6: 2,389,654
97: 2,389,929
62— 99: 2,389,957
2,389,998
102: 2,389,619
66— 157: 2,389,668
187: 2,390,003
68— 253: 2,389,768
69— 34: 2,389,620
70— 202: 2,389,765
72— 101: 2,389,622
73— 96: 2,389,912
145: 2,389,609
197: 2,389,957
204: 2,389,615
228: 2,389,603
382: 2,389,866
74— 5: 2,389,775
2,389,826
200: 2,389,589
251: 2,389,874
389: 2,389,773
462: 2,389,728
576: 2,389,695
75— 67: 2,390,016
77— 23: 2,389,743
64: 2,389,668
2,389,744
65: 2,389,909
80— 44: 2,389,888
81— 6: 2,389,954
112: 2,390,034
164: 2,389,933
82— 2: 2,389,746
18: 2,389,731
26: 2,389,757
35: 2,389,853
36: 2,389,858
85— 5: 2,389,635
11: 2,389,964
2,389,965
88— 23: 2,389,617
41: 2,389,742
89— 1: 2,389,943
2,389,996
3: 2,389,960
37: 2,389,726
37.5: 2,389,997
2,390,013
40: 2,389,623
90— 4: 2,389,815
13.5: 2,389,594
2,389,653
21: 2,389,627
59: 2,390,022
91—12.1: 2,390,007
12.2: 2,389,702
49: 2,390,001
92— 3: 2,389,678
94— 39: 2,389,773
97— 60: 2,389,976
213: 2,389,790
220: 2,389,993
99— 22: 2,389,732
136: 2,389,770
391: 2,389,927
100— 70: 2,389,818
101— 132: 2,389,848
145: 2,389,891
147: 2,389,730
102— 70: 2,389,782
93: 2,389,846
103— 109: 2,389,753
161: 2,389,709
265: 2,389,656
106— 142: 2,389,605
198: 2,389,940
269: 2,389,926
106— 281: 2,389,680
2,389,681
112— 79: 2,389,914
135: 2,389,745
200: 2,389,567
113— 42: 2,389,738
115— 37: 2,389,663
117— 33: 2,389,657
121— 38: 2,389,661
152: 2,389,621
122— 458: 2,389,898
123— 16: 2,389,764
119: 2,389,797
148: 2,389,637
169: 2,389,597
126— 87: 2,389,690
129— 16: 2,389,923
30: 2,389,612
132—75.8: 2,389,665
79: 2,389,788
136— 6: 2,389,832
33: 2,389,893
2,389,894
175: 2,389,674
137— 68: 2,389,820
152: 2,389,887
153: 2,389,720
2,390,015
138— 30: 2,389,791
2,389,792
139—157: 2,389,595
159: 2,389,952
194: 2,389,808
247: 2,390,014
302: 2,389,809
140— 113: 2,389,951
144— 268: 2,390,008
309: 2,389,944
146— 2: 2,389,630
76: 2,389,862
148— 12: 2,390,023
16: 2,389,838
150— 29: 2,389,916
151— 7: 2,389,989
15: 2,389,634
152—430: 2,390,026
153— 1: 2,389,699
32: 2,389,644
2,389,885
40: 2,389,937
48: 2,389,974
154— 2: 2,389,641
2.26: 2,389,725
2.28: 2,389,705
26: 2,389,836
29: 2,389,934
155— 71: 2,389,994
158—46.5: 2,389,685
91: 2,389,892
160— 61: 2,389,970
92: 2,389,863
100: 2,389,503
172: 2,389,956
161— 15: 2,389,906
164— 42: 2,389,753
166— 12: 2,389,869
2,389,965
167— 22: 2,389,719
38: 2,390,037
81: 2,389,955
87.1: 2,389,755
169— 19: 2,389,817
170— 159: 2,389,760
171—324: 2,389,941
172— 36: 2,389,900
239: 2,389,939
174— 21: 2,389,895
121: 2,390,039
175— 21: 2,389,733
294: 2,389,942
363: 2,390,005
177— 311: 2,389,613
351: 2,389,692
380: 2,389,786
178— 5.2: 2,389,645
2,389,646
2,389,979
17: 2,389,694
66: 2,389,879
70: 2,389,675
179— 1: 2,389,949
3: 2,389,884
18: 2,389,666
82: 2,389,967
171: 2,389,835
2,389,903
180— 9.1: 2,389,624
53: 2,389,847
181— 24: 2,389,868
36: 2,389,968
188— 2: 2,389,972
20: 2,389,671
78: 2,389,953
79.5: 2,389,618
129: 2,389,840
152: 2,389,977
2,389,978
187: 2,389,932
207: 2,389,614
189— 1: 2,389,899
2: 2,389,724
34: 2,389,767
192— 8: 2,389,886
45.1: 2,389,961
69: 2,389,772
196— 55: 2,389,636
2,390,031
197—133: 2,389,813
198— 30: 2,389,812
32: 2,389,696
233: 2,389,759
200— 34: 2,389,856
87: 2,389,502
88: 2,389,999
137: 2,389,686
140: 2,389,880
201— 56: 2,389,750
63: 2,389,915
2,390,038
202— 75: 2,389,789
204— 10: 2,389,734
93: 2,389,691
297: 2,389,904
207— 17: 2,389,876
209— 21: 2,389,715
25: 2,389,966
88: 2,390,012
139: 2,389,701
166: 2,389,727
2,389,763
424: 2,389,611
210— 65: 2,389,669
164: 2,389,814
211— 34: 2,389,910
212— 8: 2,389,872
213—188: 2,389,821
214— 83: 2,389,779
140: 2,389,928
215— 40: 2,389,761
219— 4: 2,389,945
2,389,946
8: 2,389,938
2,389,989
25: 2,389,567
38: 2,389,925
219— 39: 2,389,839
220— 10: 2,389,774
46: 2,389,824
222— 6: 2,389,667
126: 2,389,683
310: 2,389,845
332: 2,389,901
565: 2,389,747
223— 69: 2,390,004
224— 5: 2,389,596
45: 2,390,020
226— 129: 2,389,672
228— 57: 2,390,000
229— 16: 2,389,703
23: 2,389,601
2,389,890
84: 2,389,748
230— 58: 2,389,918
96: 2,389,980
241: 2,389,700
232— 6: 2,389,716
234— 1.5: 2,389,826
70: 2,389,827
235— 61.5: 2,389,861
92: 2,389,823
236— 91: 2,389,860
240— 1: 2,389,762
10.6: 2,389,591
241— 43: 2,389,816
47: 2,389,844
242— 1: 2,389,859
84.6: 2,389,602
244— 1: 2,389,600
17: 2,389,798
123: 2,389,917
135: 2,389,754
246— 3: 2,389,975
2,390,010
38: 2,389,982
248— 110: 2,389,756
250— 7: 2,389,649
20: 2,389,919
2,389,990
27.5: 2,389,935
36: 2,389,948
2,389,992
40: 2,389,986
2,390,009
157: 2,389,995
251— 93: 2,389,670
156: 2,389,947
252— 8: 2,389,652
8.8: 2,389,875
34: 2,389,855
42.1: 2,389,924
52: 2,389,606
91: 2,389,736
301.3: 2,389,781
317: 2,389,973
254— 185: 2,389,737
255— 27: 2,389,710
2,389,711
257— 241: 2,389,714
245: 2,389,850
260— 4: 2,389,796
9: 2,389,723
16: 2,389,708
22: 2,389,794
2,389,795
2,389,837
36: 2,389,959
42: 2,389,662
2,389,896
57: 2,389,865
63: 2,389,662
78: 2,389,628
86: 2,390,035
260— 88: 2,389,958
93: 2,389,693
410.6: 2,390,027
429: 2,389,873
461: 2,389,718
464: 2,389,607
486: 2,390,028
527: 2,389,766
530: 2,389,950
537: 2,390,024
607: 2,389,802
2,389,803
2,389,804
2,389,805
2,389,806
2,389,807
2,389,931
655: 2,389,626
668: 2,389,713
669: 2,389,793
2,389,801
676: 2,389,586
681.5: 2,389,647
2,389,658
683.4: 2,389,604
2,389,739
2,389,971
2,389,984
683.5: 2,389,651
2,389,659
2,389,660
683.15: 2,389,780
789: 2,390,036
261— 23: 2,390,019
34: 2,389,922
94: Re. 22,606
262— 8: 2,389,920
2,389,921
33: 2,389,936
266— 23: 2,389,585
267— 64: 2,389,849
268— 126: 2,390,029
270— 1: 2,389,854
39: 2,389,834
271— 2.4: 2,389,929
273— 43: 2,389,643
277— 57: 2,389,599
279— 51: 2,389,633
103: 2,389,749
280— 33.5: 2,389,752
61: 2,389,584
285— 97.3: 2,389,825
287— 53: 2,389,610
99: 2,389,811
292— 337: 2,389,819
294— 27: 2,389,740
296— 28: 2,389,907
299— 73: 2,389,676
87: 2,389,864
147: 2,389,642
301— 124: 2,389,712
304— 40: 2,389,751
305— 10: 2,389,722
306— 4: 2,389,906
70: 2,389,687
311— 90: 2,389,930
312— 44: 2,389,905
174: 2,390,030
315— 177: 2,389,640
195: 2,389,889
211: 2,389,638
212: 2,389,639
368: 2,389,991

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,389,593: | 160—100 | 2,389,716: | 232— 6 | 2,389,770: | 99—136 | 2,389,855: | 252— 34 | 2,389,933: | 81—164 | 2,389,973: | 252—317 |
| 2,389,606: | 46—123 | 2,389,731: | 82— 18 | 2,389,837: | 260— 22 | 2,389,863: | 100— 92 | 2,389,940: | 105—196 | 2,390,035: | 260— 86 |
| 2,389,638: | 315—211 | 2,389,732: | 99— 22 | 2,389,851: | 39—206 | 2,389,924: | 252—62.1 | 2,389,967: | 62— 99 | | |
| 2,389,647: | 260—681.5 | 2,389,747: | 222—565 | | | 2,389,929: | 271—2.4 | 2,389,970: | 160— 61 | | |

## CLASSIFICATION OF DESIGNS

| | | | | | |
|---|---|---|---|---|---|
| D 3—26: Des. 143,000 | D33—19: Des. 143,043 | D44—29: Des. 143,047 | D58— 9: Des. 142,999 | D81—10: Des. 143,054 | D67— 2: Des. 143,041 |
| Des. 143,056 | D35— 1: Des. 143,032 | D45— 4: Des. 143,091 | 16: Des. 143,042 | 18: Des. 143,603 | D91— 3: Des. 142,992 |
| D 9— 2: Des. 142,987 | Des. 143,033 | 15: Des. 142,981 | 26: Des. 142,983 | 25: Des. 143,023 | D92— 1: Des. 142,997 |
| D10— 7: Des. 143,039 | Des. 143,034 | Des. 143,030 | Des. 142,990 | D83— 1: Des. 142,980 | 2: Des. 143,010 |
| D15— 1: Des. 143,005 | Des. 143,035 | Des. 143,031 | Des. 142,991 | D85— 2: Des. 143,017 | Des. 143,011 |
| D21— 1: Des. 143,002 | Des. 143,036 | D48— 2: Des. 142,979 | D61— 1: Des. 143,008 | Des. 143,018 | Des. 143,012 |
| D22— 3: Des. 142,978 | Des. 143,037 | 27: Des. 142,986 | D74—17: Des. 143,051 | Des. 143,019 | Des. 143,013 |
| D26— 1: Des. 143,026 | Des. 143,038 | Des. 143,006 | Des. 143,052 | Des. 143,021 | Des. 143,014 |
| 5: Des. 143,027 | D41— 1: Des. 143,029 | Des. 143,055 | Des. 143,053 | Des. 143,024 | Des. 143,015 |
| D29—20: Des. 142,984 | D44—10: Des. 142,989 | D49— 1: Des. 142,998 | 24: Des. 143,048 | D86—10: Des. 143,022 | Des. 143,016 |
| Des. 142,985 | 15: Des. 142,977 | D54—13: Des. 142,982 | Des. 143,049 | D87— 3: Des. 142,993 | D93— 3: Des. 143,025 |
| Des. 142,988 | 29: Des. 143,028 | D55— 1: Des. 143,009 | Des. 143,050 | Des. 142,994 | |
| Des. 143,007 | Des. 143,045 | D58— 6: Des. 143,057 | D80— 5: Des. 142,996 | Des. 142,995 | |
| D33—14: Des. 143,004 | Des. 143,046 | 9: Des. 143,044 | 8: Des. 143,020 | Des. 143,040 | |

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

### IN RE TURNER

*No. 5,033. Decided June 25, 1945*

[150 F.(2d) 149; 66 USPQ 159]

PATENTABILITY—PROCESS OF SEPARATING GASES

"We are of opinion that appellant's process of separating gases into a unitary mass of adsorbent material of gradually reduced cross-sectional area and separating the adsorbed components into fractions in the sequence in which they are released by distillation is neither taught nor suggested by the reference patent, and that, on the record presented, the appealed claims are patentable."

APPEAL from the Patent Office. Reversed.

*Mr. William B. Jaspert* for Turner.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 25, 26, 27, and 30 in appellant's application for a patent for an invention relating to a method of separating light hydrocarbon gases or vapors such as are ordinarily present in natural gas.

Four claims (Nos. 7, 8, 28, and 29) were allowed by the Primary Examiner.

Counsel for appellant has moved to dismiss the appeal as to claim 30. The motion will be granted.

Claim 25 is sufficiently illustrative of the claims on appeal. It reads:

25. The method of separating gases which comprises passing the gases or vapors through a unitary mass of adsorbent material contained in an enclosed space of gradually reducing cross-sectional area and heating said adsorbent material progressively from the large to the reduced area of the mass to separate the adsorbed components into fractions of the gases in the sequence in which they are released by the distillation.

The single reference cited against the appealed claims is: Vosburgh, 2,017,779, October 15, 1935.

Appellant discloses in his application an elongated body or fractionating column of refractory material, such as activated charcoal, in a single chamber. The fractionating column which is generally in a vertical position, but may be "placed in a reclining position or oriented in any other way," is composed of contiguous sections of varying diameters and lengths, the larger section being at the bottom of the column. The column, therefore, is of gradually reduced cross-sectional area. The gases to be fractionated are introduced at the bottom of the column through an inlet in the chamber, and when the column is filled the valve in the conduit leading into the chamber is closed. The fractionating column of activated material is heated externally by an electrical resistance heater which is designed to move along the chamber from the bottom upwardly "to progressively heat the adsorbent material as the fractionating process progresses."

As stated in the quoted claim, appellant's process comprises passing gases "through a *unitary mass* of adsorbent material contained in an enclosed space of gradually reducing cross-sectional area and heating said adsorbent material progressively from the large to the reduced area of the mass to separate the adsorbed components into fractions of the gases *in the sequence in which they are released by the distillation*." [Italics ours.]

Appellant states in his application that as the gases are driven upwardly through the adsorbent material, the individual components are separated into layers, each of which consists of a "substantially pure component." Apparently some of the layers are not substantially pure, and in order that the volume of mixed gases in such layers may, as stated in appellant's application, "be reduced to a negligible value in comparison to the volume of pure components above and below it, the cross-section of the adsorbent bed at the outlet end of the column is substantially less than the cross-section at the charging [inlet] end." It is further stated in appellant's application that—

Since the thickness of the stratum of mixed components is independent of the diameter of the cross-sectional area of the adsorbent bed, *the volume of adsorbed components in this stratum* [layer] *will decrease in direct proportion to the cross-sectional area, resulting in an extremely sharp separation of the individual components as they are delivered from the top of the column.* [Italics not quoted.]

In other words, as we understand it, when an intermediate layer of mixed components passes through an adsorbent layer of gradually decreasing area, the separation of the components in the intermediate layer is effected owing to the fact that the mixed layer remains the same in thickness but contains a smaller volume of mixed components as its area decreases. Accordingly, some of the components which were formerly in the mixed layer are separated and pass into the layers of pure components above and below it, "resulting," as stated in the quoted excerpt from appellant's application, "in an extremely sharp separation of the individual components as they are delivered from the top of the column."

Appellant's process is intended to be used for laboratory analysis of gases, although it is stated in his application that it may be utilized for industrial purposes.

The patent to Vosburgh relates to a process for recovering carbon dioxide from a gaseous mixture, and discloses an apparatus for carrying out the process. The apparatus disclosed in the patent comprises two so-called "scrubbers" for cleaning the gas, that is, freeing it from sulphur compounds. The patentee discloses three chambers in parallel relation, referred to in the patent as a "primary accumulator tower," a "secondary tower," and a "final accumulator tower." The primary and secondary towers are of the same size, and are of

uniform cross-sectional area. The third or final accumulator is of smaller dimensions, and is also of uniform cross-sectional area. The three chambers or towers are arranged serially and are interconnected by conduits, each of the conduits being provided with a valve so that it can be closed. Each of the chambers is provided with a coil of pipe to which steam is supplied, and each contains an adsorbent material, such as activated carbon. In the patentee's process, after the gas has been scrubbed or cleaned it is passed through the three towers by means of the interconnecting conduits. As it passes through the chambers it is adsorbed by the adsorbent material. The patentee states that after the activated material in the three towers had adsorbed all of the carbon dioxide of which it is capable, the valve in the conduit leading from the second scrubber to the primary accumulator tower is closed, thus preventing further gas from entering the primary accumulator tower from the scrubbers. Steam is then permitted to enter the steam coil in the primary accumulator tower and the gas which has accumulated in the adsorbent material is driven off by the heat into the secondary tower and the final accumulator tower, where, it is stated, the adsorption of carbon dioxide is increased and some of the undesirable gases are permitted to escape through a so-called "escape conduit." After the gas is driven from the primary accumulator tower, the valve in the conduit connecting the primary accumulator tower and the secondary tower is closed. Steam is then passed through the steam coil in the secondary tower and the gas which has accumuated in the adsorbent material therein is driven therefrom by the heat into the third or final accumulator tower, where the adsorption of carbon dioxide increases and more of the undesirable gases are permitted to escape. Thereupon, the valve in the conduit connecting the secondary tower and the final accumulator tower is closed. Steam is then passed through the steam coil in the final accumulator tower and the gas in the adsorbent material, which the patentee states is nearly pure carbon dioxide, is driven out. It is stated in the patent that the adsorbent material will adsorb only a certain amount of carbon dioxide "from a gas mixture having a certain percentage of carbon dioxide therein, but will adsorb a greater amount of carbon dioxide gas when the percentage of carbon dioxide in the mixture is increased," and that such fact "would appear due to the probable establishment of an equilibrium between the amount of carbon dioxide adsorbed and the other gases in the mixture. Hence, when the gas mixture surrounding the activated carbon particles contains a higher percentage of carbon dioxide, this equilibrium is disturbed and more carbon dioxide displaces the other gases that are less readily adsorbed than the carbon dioxide, and which were adsorbed with the carbon dioxide under the prior conditions, and a further adsorption of carbon dioxide gas by the activated carbon results."

In his decision the Primary Examiner stated that appellant relied, in part, for patentability of the appealed claims on the limitation contained therein "passing the gases or vapors through a unitary mass of adsorbent material contained in an enclosed space of gradually reducing cross-sectional area"; that that limitation is an apparatus limitation which cannot lend patentability to the claims; that the reference patent discloses the use of three separate containers; that whether the mass of adsorbent material is in a single container or in a plurality of connected containers is merely a matter of mechanical design; that the patentee discloses "one area reduction between the second and third masses"; and that the patentee clearly discloses the—

> • • • concept of distilling the adsorbed gases successively from the inlet end toward the outlet. This produces a displacing (fractionating) action by the carbon dioxide. • • • This fractionation produces a fraction successively richer in carbon dioxide until that retained in the small adsorber attains the required degree of purity. • • • The reference thus discloses that the fractionation will be improved by decreasing the area of the adsorbent in the final stage. To make the area reduction gradually or to increase the number of area reductions is held an obvious carrying forward of the teaching in the Vosburgh patent.

The Examiner further stated that the limitation in the appealed claims "heating said adsorbent material progressively from the large to the reduced area of the mass" is fully met by the disclosure in the reference patent, and, accordingly, held that the appealed claims were unpatentable.

On appeal, the Board of Appeals stated that the appealed claims call broadly for separating gases, "and do not proceed further in the sequence of operations than successively heating the sections of adsorbent material"; that the claims do not call for the gradually reduced cross-sectional area of the mass being in a vertical position; that they are sufficiently broad to read on a horizontal disposition of the mass; that "The mere fact of having the adsorbent in a single container is of no significance unless the sections are vertically arranged so that there can be stratification by gravity"; that the claims do not call for any particular gases; and that not "all gas mixtures would stratify even if the sections of adsorbent were vertically arranged." The Board agreed with the Primary Examiner's view that the limitation in the claims "a unitary mass of adsorbent material contained in an enclosed space of gradually reducing cross-sectional area" is an apparatus limitation, which, the Board stated, is insufficient to differentiate the method defined by the appealed claims from the disclosure in the Vosburgh patent where the adsorbent material is in three separate compartments.

It will be observed that the Board did not hold that the so-called "apparatus limitation" was not properly in the appealed claims, but rather held that such limitation was not sufficient to lend patentability to the appealed claims in view of the disclosure in the Vosburgh patent.

It is apparent from the disclosure in the Vosburgh patent that all the patentee was attempting to do was to remove carbon dioxide from the gases employed by him, permitting the other gases to escape during the course of his process. He was not attempting to separate adsorbed components of gases into fractions in the sequence in which they are released by distillation. Therefore, the three chambers or towers (two of which were of the same size and of uniform cross-sectional area, and the other of smaller dimensions but also of uniform cross-sectional area) disclosed by the patentee as being in parallel relation and arranged serially and interconnected by conduits were sufficient for his purpose.

We find no teaching or suggestion in the Vosburgh patent of separating the adsorbed components of the gases in the sequence in which they are released by distillation, and it is evident from appellant's application that that purpose could not have been attained by the use of the patentee's apparatus. Furthermore, we are not in accord with the views expressed by the Board of Appeals that having the adsorbent material in a single container as called for by the appealed claims, is without significance because the unitary mass of adsorbent material is not required by the appealed claims to be vertically arranged. Obviously, the gas flowing through such a unitary mass, even though the mass is in a horizontal position, would become stratified, and appellant states in his application, as hereinbefore noted, that the unitary mass might be in either an inclined or a horizontal position.

We are of opinion that appellant's process of separating gases into a unitary mass of adsorbent material of gradually reduced cross-sectional area and separating the adsorbed components into fractions in the sequence in which they are released by distillation is neither taught nor suggested by the reference patent, and that, on the record presented, the appealed claims are patentable.

The appeal is dismissed as to claim 30.

For the reasons stated, the decision of the Board of Appeals is reversed as to claims 25, 26, and 27.

Reversed.

---

## U. S. Court of Customs and Patent Appeals

### IN RE BENTHAM

*No. 5,053. Decided June 25, 1945*

(150 F.(2d) 270; 66 USPQ 162)

PATENTABILITY—CARTON.

Certain claims to a carton *Held* patentable over the references of record, nothing therein suggesting the substitution and modification necessary to produce the carton.

APPEAL from the Patent Office. Reversed.

*Messrs. Barry & Cyr* (*Mr. Robt. E. Barry* of counsel) for Bentham.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 1 to 4, inclusive, 8, 9, and 10 in appellant's application for a patent for an invention relating to improvements in cartons formed of sheet material, such as fiberboard.

Two claims (Nos. 6 and 7) were allowed by the Primary Examiner.

Claims 1 and 8 are sufficiently illustrative of the appealed claims. They read:

> 1. A carton formed of sheet material and comprising an integral one-piece bottom, opposite side walls, and cover means, end walls, each end wall having an outwardly projecting rim, portions of said rims being secured to the inner surfaces of the ends of the side walls and bottom, dividers extending across the carton and secured respectively to the inner surfaces of intermediate portions of the side walls, means securing the dividers together, each divider being integral with a reinforcing flap superposed on the bottom of the carton, each of said reinforcing flaps being of the same width as the carton and extending from the dividers to an end of the carton, whereby said reinforcing flaps form together an entire second bottom of the carton.
>
> 8. A carton formed of sheet material and comprising an integral one-piece bottom, opposite side walls, and cover means, end walls, each end wall having an outwardly projecting rim, portions of said rims being secured to the inner surfaces of the ends of the side walls and bottom, dividers extending across the carton and secured respectively to the inner surfaces of intermediate portions of the side walls, each divider being integral with a reinforcing flap superposed on the bottom of the carton, each of said reinforcing flaps being of the same width as the carton and extending from the dividers to an end of the carton, whereby said reinforcing flaps together form a second bottom of the carton.

The references are: Rexford, 996,364, June 27, 1911; Walter, 1,565,765, Dec. 15, 1925; Quackenboss, 1,985,549, Dec. 25, 1934.

Appellant's carton is used for the transportation and storage of eggs or other fragile articles. The body of the carton comprises end walls, opposite side walls, a one-piece bottom, and a cover, the bottom, side walls and cover being formed from a main blank of sheet material. Each of the end walls has an outwardly projecting rim which is secured to the inner surface of the ends of the side walls and to the bottom portion of the container. The carton is provided with a divider, composed of two sections which are secured together and extend across the middle portion of the carton. Each section of the divider is provided with a flap, which is the same width as the carton, and which extends from the divider to the end of the carton and is superimposed upon the inner surface of the bottom, thus forming a second or reinforcing bottom for the carton. Each section is also provided along its side with an additional flap. By means of the side flaps, one section is secured to one of the side walls and the other section is secured to the opposite side wall. The sides of the sections which are not provided with flaps are not secured to, but abut, the respective side walls.

Appellant's structure is so arranged that it may be shipped in a knocked-down or flat condition, and the allowed claims relate to that feature.

It is contended by counsel for appellant, and it seems to be evident from appellant's structure, that the flaps which reinforce the bottom of the carton, and which abut the end walls, strengthen the latter and, as stated in the brief of counsel, "aid in transferring shocks from the end walls to the medial portions of the carton." It is further contended by counsel that as the contents of the carton rest upon those flaps, the flaps, acting through the two sections of the divider and the flaps at-

tached to the side walls, tend to "pull the opposite side walls of the carton toward one another and thereby prevent said walls from bulging."

It appears from the record that appellant's carton has been tested to determine its strength, and particularly its resistance against top and end pressure; that from the tests made it has been found that the carton "will withstand a top load of 1,820 lbs. and an end load of 685 lbs."; that, therefore, it has the strength to withstand the pressures encountered by cartons during shipment in railroad cars and when stored in warehouses; and that appellant's cartons have been commercially successful.

The patent to Rexford relates to a folding packing box composed of sheet material, such as fiberboard. The patentee discloses a divider composed of two sections secured together. Each section has a flap at its top and bottom of the same width as the carton, which extends from the divider about half the distance between the divider and the end wall. Each section of the divider is also provided with an additional flap. The additional flap on one of the sections is used to secure that section to the front side wall, whereas the one on the other section is not secured, but, as stated by the patentee, is "adapted to bear against the opposite side wall." In other words, the patentee's divider is secured to the front side wall only. The end walls of the patentee's container are provided with flaps both at the top and bottom of the same width as the container. Those flaps extend inwardly about half the distance from the end walls to the divider. Thus the flaps on the divider and those on the end walls abut, both at the top and bottom of the container. Each of the side walls is provided with a flap at both the top and bottom of the container which is about one-half the width of the container and which is designed to fold over the flaps of the divider and those on the end walls for the purpose of forming closures for the top and bottom of the carton.

It is evident from what has been said that the patent to Rexford does not disclose a carton having a one-piece bottom, but rather one in which the bottom has two transverse seams and a longitudinal seam. Nor does it disclose flaps on the two sections of the divider extending from the divider to the end walls to provide a reinforced bottom for the carton.

The patentee discloses a modification of the structure, hereinbefore described, in which the flaps at the top of the divider extend from the divider to the end walls. The patentee states that in such modification, the flaps at the top of the end walls would be dispensed with and the material used for forming "hand holds" on the end sections for lifting and carrying the container.

The patent to Quackenboss relates to a packing container composed of sheet material, such as pasteboard or "analogous substance." The patentee discloses a divider composed of two sections secured together. Each section is provided with a flap integral therewith of the same width as the container, which extends from the divider across the top to the end wall. The flaps on the two sections of the divider thus form a closure for the top of the patentee's carton. Each section of the divider also has additional narrow flaps at the bottom and on each side. The flap on the bottom of the section is attached to the bottom of the container, and the flaps on the sides of each section are attached to the side walls. The patentee discloses a one-piece bottom. However, the flaps on the bottom portions of the patentee's divider do not extend to, and abut, the end walls and, therefore, do not form a reinforced bottom for the container, as in appellant's structure.

The patent to Walter relates to improvements in "fibre or paper board" containers, and was cited by the Primary Examiner because, as stated by the Examiner, it discloses "Inset flanged end members * * * secured in position to close the ends," or, as stated by counsel for appellant, because it discloses "recessed or shock absorbing end walls," as called for by appealed claims 4 and 8.

Appealed claims 1, 2, 3, and 9 were rejected by the Primary Examiner on the patent to Quackenboss in view of the patent to Rexford, the Examiner holding that it would be obvious from the disclosures in those patents to substitute the divider or partition in the Rexford patent for the divider in the structure disclosed in the Quackenboss patent. In so holding, the Primary Examiner said:

> Patent to Quackenboss discloses a carton having a one-piece bottom. An object of the Rexford device is to provide brace wings on the partition members, which wings coact with certain end wall flaps to provide a rigid structure with a smooth double thickness top and bottom. In the absence of end flaps, as shown in Fig. VI, the brace wings are each extended the full length of their respective compartments. It is considered that Rexford's specific partition structure might be substituted for that of Quackenboss without the exercise of invention, if desired, and in such substitution it would not amount to invention, there being no end flaps, to extend the brace flaps the full length of each compartment, following Rexford's own teaching.

Appealed claims 4 and 8 were rejected by the Examiner on the disclosure in the Quackenboss patent in view of the Rexford and Walter disclosures.

Claim 10 was rejected by the Examiner, according to his statement to the Board of Appeals, "for the same reasons as claims 1, 2, 3, 4, 8 and 9."

The Board of Appeals affirmed the Examiner's decision for the reasons stated by him.

It will be observed from the quoted excerpt from the Examiner's statement to the Board of Appeals that he was of opinion that the patentee Rexford disclosed the idea, in Fig. VI of his patent, of eliminating the flaps at both the top and bottom of the end walls and modifying his divider so that the flaps on the top and bottom portions of the divider would extend the full length of their respective compartments.

It is true that Rexford discloses the idea of eliminating the flaps on the top of the end walls and extending the flaps on the top of the divider the full length of each compartment. However, we are unable to find any suggestion in the patent that the patentee contemplated a similar structure for the bottom of his container.



Should the Rexford divider be substituted for the divider in the Quackenboss carton, as suggested by the Examiner, the contents of the carton would rest only partially on the flaps of the divider and the greater weight would rest on that portion of the bottom of the container which is composed of a single thickness of sheet material. Such an arrangement would not have the advantages of appellant's carton where the flaps on the bottom of the divider, when under pressure, not only reinforce the bottom of the carton, but also abut the end walls and strengthen them, and acting through the divider and the flaps, by means of which the divider is attached to the side walls in the manner hereinbefore stated, tend to pull the opposing side walls together and prevent bulging.

We think it is evident from what has been said that the substitution of the divider disclosed in the patent to Rexford for the divider disclosed in the Quackenboss patent would not produce appellant's carton or one having its advantages, and that in order to produce such a carton it would be necessary to modify the Rexford divider to a considerable extent.

We find nothing in the references of record that suggests such a substitution and modification. Accordingly, we are constrained to disagree with the conclusion reached by the Board of Appeals.

For the reasons stated, the decision is reversed.

Reversed.

## U. S. Court of Customs and Patent Appeals

### IN RE CORNELL

*No. 5,029. Decided June 22, 1945*

[150 F.(2d) 569; 66 USPQ 230]

1. PATENTABILITY—PROCESS OF REMOVING VOIDS FROM A PLASTIC VESICULAR MATERIAL.
   In claims to a process of removing voids from a plastic vesicular material, the recited step of "centrifugally attenuating said material into a continuous film mechanically supported on one side only on a substantially coniform surface" *Held* to define structure; and the claims *Held* properly rejected.
2. APPEAL—RECORD.
   "It is noted from the Board's decision that before it appellant cited a prior patent of his, No. 2,318,293, issued May 4, 1943, as showing a different kind of apparatus upon which the process might be performed. That patent was not included in the record certified to us, nor is it referred to in appellant's brief before us. We, therefore, may not consider it."

APPEAL from the Patent Office. Affirmed.

*Messrs. Oberlin & Limbach* (*Mr. Oscar C. Limbach* of counsel) for Cornell.

*Mr. W. W. Cochran* for the Commissioner of Patents.

GARRETT, *P. J.*:

The Board of Appeals of the United States Patent Office having affirmed the decision of the Examiner rejecting three claims (being all the claims) numbered respectively 20, 21, and 22 of appellant's application for patent relating to a process of removing voids, or air bubbles, from a plastic vesicular material by centrifugally attenuating it, the instant appeal was taken seeking review of the Board's decision.

The specification describes the material upon which the process operates as being of "* * * such a stiffness as to prevent the air bubbles comprising the voids from rising to the surface under ordinary conditions," and states that "A notable example of such a material is lubricating grease" which has a mineral oil base.

Claim 20 is regarded as representative. It reads:

> 20. The process of removing voids from a plastic vesicular material which comprises the steps of centrifugally attenuating said material into a continuous film mechanically supported on one side only on a substantially coniform surface whose radial component is substantially greater than its axial component, and thickening and collecting the attenuated film into a centrifugally held body, said process being further characterized by the fact that the material under treatment is continuously in motion under the influence of centrifugal force.

Claim 21 is the same in phraseology with an added limitation for "picking up" the attenuated materials "by deflecting the same from said centrifugally held body." Claim 22 provides for performing the process "at sub-atmospheric pressures."

It is not suggested that the limitations so recited distinguish claims 21 and 22 from claim 20 in any patentable sense.

Each of the claims recites the step of centrifugally attenuating the material into a continuous film, and each recites that the film is "mechanically supported on one side only on a substantially coniform surface whose radial component is substantially greater than its axial component."

The application discloses drawings of an apparatus for centrifuging the materials in order to remove the air bubbles. Its several united features are enclosed within a vacuum chamber which causes the process to be performed at sub-atmospheric pressure as recited in claim 22. What may be described as the basic feature of the unit consists of a hollow member whose length is greater than its width—that is, its "radial component is substantially greater than its axial component." The hollow member is secured to the lower end of a shaft, and in operation it is said to be rotated at high speed. The liquid material to be processed enters the rotating member through a pipe, and a floating baffle on the upper inner side of the member, supported by a spring, causes the material to pass to the inner periphery of the rotating member in the form of a continuous thick film. A radially inwardly directed portion at the outer periphery of the rotating member provides an annular space within which, after its treatment, the material may be recollected and confined under centrifugal force. A discharge tube is provided with a scoop having, in the preferred form, two radially spaced openings whereby, in the language of the brief for appellant, "different layers of the centrifugally impounded mass are discharged through separate pipes." This latter arrangement is alleged to insure that any frothiness of the impounded mass will be discharged separately from the dense mass from which the voids, or bubbles, have been removed. The particular advantage claimed for the dimensional (length-

greater-than-width) feature of the hollow member is that it insures the centrifugal attenuation of the continuous film, which is in a relatively thick condition at the center of the member, "into a very much thinner film by the time it reaches the outer periphery of the member," so that "the wall thickness of any bubble entrained in the grease is reduced to extreme thinness."

Two distinct grounds of rejection were applied by the Examiner:

First. He held that the claims presented nothing patentable over the following patents: Bushby, 585,552, June 29, 1897; Borden, 1,667,139, April 24, 1928; Heald, 2,306,265, December 22, 1942.

Second. As recited in his statement following the appeal to the Board, he held:

> Claims 20, 21 and 22 are further rejected as including apparatus limitations in the process steps. To state that material is supported by a coniform surface is an apparatus limitation and is not a patentable process step. The application does not disclose any process separate from the functioning of an apparatus. The alleged process cannot be effected without an apparatus not patentably different from the apparatus of the application.

The structural feature so alluded to is that defined by the limitation embraced in the clause "mechanically supported on one side only on a substantially coniform surface whose radial component is substantially greater than its axial component."

We have experienced some difficulty in interpreting that portion of the Board's decision relating to the Examiner's second ground of rejection. The Board added as an additional reference a patent to Audiffren et al., 1,155,780, issued October 5, 1915, and appellant has offered no objection to its addition although it apparently was not considered by the Examiner. Under the circumstances, we deem it proper to quote in full the material part of the Board's decision:

> The claims to the method are rejected since they include mechanical details of centrifuge structure but applicant contends that the method can be performed by other structure.
>
> In any event the structure recited in the claim either is or is not a limitation. In the latter case the claims are anticipated by Borden and Heald. In the former case, the claims are for functions of specific apparatus which differs from Bushby in that the axial component in Bushby is very great relative to the radial component.
>
> Furthermore we consider it obvious to use Bushby's apparatus to separate gas from grease or oil. The relative axial and radial components as indicated by the Examiner may be immaterial and applicant notes, citing the Cornell Patent 2,318,293, May 4, 1943, that the process may be performed with different apparatus.
>
> Be that as it may, the same reduced axial component in element B is described in the patent to Audiffren et al. 1,155,780, Oct. 5, 1915 (page 2, line 34), where the scoops operate on the annulus of material under the influence of centrifugal force.
>
> Our view is that the mechanical details of the apparatus used in performing the method defined by the claims cannot be said to constitute critical details of a method as distinguished from the function of the machine.
>
> We are also of the opinion that anyone skilled in the art could use Bushby's apparatus to remove gaseous bubbles or voids from plastic material without invention as a matter of choice. While Audiffren's machine is not used to separate bubbles from grease, it does separate oil from liquid $SO_2$ and we are satisfied that no finding of inventiveness can be based on a critical relation of plastic to a reduced axial component in the centrifuge.
>
> For the reasons indicated, the decision of the Examiner is affirmed.

Seemingly the Board did not pass squarely on the patentable effect of the structural limitation, independently of the cited prior art, but rather made a somewhat conditional holding thereon.

Since this feature poses the only question of law involved, and since, if the Examiner's holding upon it was correct it determines the issue without reference to the prior art, we think it somewhat regrettable that the Board was not more definite in its expression regarding it. However, it did not expressly overrule the Examiner's holding, but apparently agreed with it, at least conditionally, and the brief of the Solicitor for the Patent Office, citing authorities, discusses the question as follows:

> Although the appealed claims are process claims in form, they contain the apparatus limitation "a substantially coniform surface whose radial component is substantially greater than its axial component."
>
> While it is true that the mere fact that a method or process may be performed by a machine does not necessarily mean that an inventor of the process may not claim the process, yet if the process be nothing more than the function of some particular mechanism, it is not a patentable process. *In re McCurdy*, 22 C. C. P. A. 1140, 76 F.(2d) 400, 25 USPQ 136, 459 O. G. 923; *In re Oakley*, 22 C. C. P. A. 834, 73 F.(2d) 934, 24 USPQ 75, 454 O. G. 536; *In re Freeman et al.*, 27 C. C. P. A. 795, 108 F.(2d) 244, 44 USPQ 116, 513 O. G. 497.
>
> In *Black-Clawson Company* v. *Central Engineering and Patents Corp.*, 83 F.(2d) 116, 29 USPQ 253, C. C. A. 6, the court said:
>
> * * * It is well settled that operations which consist entirely of mechanical transactions, and which are only the peculiar functions of the respective machines which are constructed to perform them, do not constitute processes which are patentable in the United States.
>
> In that case, as in the present one, the claims were for a process involving the use of a centrifuge, and the court held the claims invalid as being for the function of the apparatus.
>
> In the present case the process as claimed is limited to the use of a centrifuge having the particular coniform surface recited in the claims. It is therefore submitted that the appealed claims clearly fall in the class condemned by the courts.

[1] It seems to us that one of the vitalizing steps defined in the claims—that is, the step (which is the first step) of "centrifugally attenuating said material into a continuous film mechanically supported on one side only on a substantially coniform surface * * *" defines structure, and that all subsequent steps are dependent upon it. Therefore, under the authorities cited by the Solicitor, we think the claims were properly rejected. The several authorities cited on behalf of appellant are not deemed to be in point on the precise question of a structural limitation as presented here, but relate rather to questions of anticipation. The claim quoted from the application involved in the case of *In re Walsh et al.*, 24 C. C. P. A. (Patents) 894, 87 F.(2d) 511, 32 USPQ 323, 481 O. G. 906, does not embrace a structural limitation such as that here involved.

[2] It is noted from the Board's decision that before it appellant cited a prior patent of his, No. 2,318,293, issued May 4, 1943, as showing a different kind of apparatus upon which the process might be performed. That patent was not included in the record certified to us, nor is it referred to in appellant's brief before us. We, therefore, may not consider it.

Because of our view respecting the second ground of rejection advanced by the Examiner, it is unnecessary to discuss the prior art.

The decision of the Board is affirmed.

Affirmed.



## Register of Patents Available for Licensing or Sale

Pat. 2,017,548. BUILDING CONSTRUCTION. Patented Oct. 15, 1935. Waste space between ceiling and joist is utilized for acoustic treatment by draping light weight, fireproof, and sound-proof material in serpentine fashion over vertical supports thus providing a larger sound-proofing area. Eliminates superficial treatment of finished ceiling surface. Can be installed during construction by unskilled labor. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—91; 32—72—74—92. Reg. No. 616.

Pat. 1,912,161. BUILDING CONSTRUCTION. Patented May 30, 1933. Provides a finished ceiling surface which will not impair the acoustic value of the installation described in Patent 2,017,548. A perforated sheet is secured to furring over which an external fireproof fabric is pasted to serve as a surface to which paint can be applied. Several modifications given. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—11; 32—72. Reg. No. 617.

Pat. 2,361,963. ACOUSTIC GUARD. Patented Nov. 7, 1944. (Granted under the act of March 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.) Allows ordinary conversation or sound below 85 decibels to remain fully audible but filters out sound of greater intensity. Device used to protect wearer from serious shock and neurosis incident to excessive noise. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—91; 39—81—99. Reg. No. 618.

Pat. 2,362,859. ACOUSTICAL BUILDING ELEMENT. Patented Nov. 14, 1944. Tile-like structure fabricated of plaster having an apertured face and webbed back so that it may be cemented to wall or ceiling. Mineral wool absorbing material is placed back of tile to whiten shadow by reducing contrast usually caused by perforations. Fireproof, immune to breathing, and subject to cutting, fitting, and joining to other building parts. Readily cleaned and sound absorbing material so spaced as to preclude absorption of paint through apertures. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—91; 32—72—74. Reg. No. 619.

Pat. 1,772,594. THRESHOLD CLOSURE. Patented Aug. 12, 1930. Device for closing gap between lower edge of door and floor or threshold. Pivotally mounted strip swings upward when door is opened. Strip is made of stamped metal provided with removable rubber cushion for sealing and a protecting trough to prevent it from becoming bent. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 33—73—82; 34—29—31. Reg. No. 620.

Pat. 1,819,039. ISOLATING SUPPORT FOR VIBRATORY EQUIPMENT. Patented Aug. 18, 1931. Means of deadening the sound and vibrations caused by machinery. Machinery is bolted to top portion of "floating deck" of greater area than usually required to support the machinery. A series of alternate layers of wood and damping material, such as felt, rest on a curbed wooden platform under which are additional layers of felt. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—91; 32—92. Reg. No. 621.

Pat. 2,002,510. BUILDING CONSTRUCTION. Patented May 28, 1935. A molded, perforated, and reinforced acoustic tile and a rubber molding mat whereby the tile may be cheaply formed for both ceiling and wall. Tile is water-proof and fireproof, non-resonating, and may be anchored to furring by resilient lugs. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 32—72; 39—98. Reg. No. 622.

Pat. 1,942,662. ACOUSTICAL TREATMENT. Patented Jan. 9, 1934. Acoustic material for a wall surface, susceptible to paint without the reduction of sound-proofing. Formed of glued layers of fibre board so cut that exposed layers provide a greater surface porosity. Walls are sanded so that joints will not be apparent. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 22—91; 32—92. Reg. No. 623.

Pat. 1,751,249. ACOUSTIC TREATMENT. Patented Mar. 18, 1930. Treatment of a wall or ceiling surface by mechanically forming a multiplicity of surface piercing pores, visibly insignificant, to restore the sound absorbing value of a wall. (Owner) Maurice C. Rosenblatt, 91 Central Park West, New York 23, N. Y. Groups 32—72—74—92. Reg. No. 624.

Pat. 1,094,588. CURTAIN ROD. Patented Apr. 18, 1933. Allows the right and left hand of a curtain, suspended from a rod by slides or runners, to be moved apart or together by a pull cord. An additional feature is a double duty bracket which holds the rod to various faces of a window sash. (Owner) Isidor Weinberg, 451 East 22d St., Brooklyn 26, N. Y. Groups 22—22—98; 25—62; 33—73; 39—81. Reg. No. 625.

Pat. 2,338,377. PERPETUAL CALENDAR. Patented Jan. 4, 1944. Made in three forms: cylindrical, disc, and rectangular. The conventional or rectangular form, preferred by the inventor, shows the centuries, years, and months on separate, endless ribbons; the days of the month being printed on a movable rectangular piece of metal. Disc and cylindrical forms show same data in a series of rings. In each form parts are movable and are rotated by a key so as to move two parts in unison to show correct days of week or month; other parts remaining locked. Exact calendar date appears at all times and can be viewed through "windows". Covers period from 1753 to 2099. Groups 32—39; 38—21—91; 40. Reg. No. 626.

Pat. 2,358,969. CALENDAR. Patented Sept. 26, 1944. Device can be adapted to any period of time and made in any shape. Case with windows discloses an automatically correct calendar. Accommodates leap years and months having any number of days. When setting is incorrect the word "wrong" appears in one of the windows. Groups 32—39; 38—21—91; 40. Reg. No. 627.

Pat. 2,377,932. MICROSCOPIC CALENDAR FOR FOUNTAIN PENS AND PENCILS. Patented June 12, 1945. Miniature microscopic calendar which may be shifted to show the days of the week in proper relation to the month. May be fitted into the head of a fountain pen or pencil in combination with a lens and an arrangement to reflect light through transparent calendar. Groups 32—29—39; 38—91; 40. Reg. No. 628.

The three patents listed above are owned by Elbrige Gatewood, 410 Riverside Drive, New York 25, N. Y. Owner will furnish drawings for proposed models.

Pat. 2,353,501. VEHICLE STEERING MECHANISM. Patented July 11, 1944. Combined steering and brake mechanism for children's coaster trucks of either the wheeled or runner type is operated in a manner similar to "control stick" of an aeroplane. Brakes comprise arms with hook to contact ground. Eliminates necessity of conventional pivotal connections and expensive universal joint. (Owner) Matthew J. Redling, 192 Grant St., Perth Amboy, N. J. Groups 33—73; 39—41—43—49. Reg. No. 629.

Pat. 1,961,421. EXTENSION TONG. Patented June 5, 1934. Tongs are provided with an elongated flexible hollow tube and flexible rod inside tube. One end of rod is attached to spring tensioned linkage between jaws of

tongs and other end is attached to a sliding cross piece on bail handle. Jaws of tongs are closed by grasping handle and cross piece and closing hand. (Owner) Raymond B. Hogenson, 1512 N. Pascal Ave., St. Paul 4, Minn. Groups 33—52—73. Reg. No. 630.

Pat. 2,291,165. MOTOR GOVERNOR. Patented July 28, 1942. Two weights carried by rotating disk will, by centrifugal action, actuate a switch whereby throttle is temporarily closed to permit smooth operation of vehicle. (Owner) Harry Lyons, 228 So. Block St., Fayetteville, Ark. Groups 36—41; 38—31. Reg. No. 631.

Pat. 2,288,975. SANITARY TELEPHONE MOUTHPIECE. Patented July 7, 1942. Made by impregnating perforated or slotted flexible absorbent material with soluble, nonvolatile antiseptic. Impregnated material is molded to fit over mouthpiece of phone. Perforations in bottom of mouthpiece coincide with perforations in diaphragm and do not interfere with operation of telephone. (Owners) Jacob Siez and Shirley Grossman. Address correspondence to Jacob Siez, 5936 Spruce St., Philadelphia 39, Pa. Groups 26—99; 28—99; 40. Reg. No. 632.

Pat. 2,265,696. CARTRIDGE CASE. Patented Dec. 9, 1941. Flat case for small arms ammunition divided into two chambers with an elongated opening in the bottom opposite one chamber. Cylinder journaled in bottom of case is attached to toggle arrangement and projecting lever. Pressing lever downwardly rotates cylinder in opposite directions to alternately discharge cartridges from chambers. Case is opened from hinged sides and safety latch is provided. (Owner) Pfc. Grover F. Mullins, A. S. N. 37191378, Service Co. T. P. S., Ft. Benning, Ga. Groups 28—92; 33—73; 39—49. Reg. No. 633.

Pat. No. 2,319,025. WORKBENCH FOR POWER TOOLS. Patented May 11, 1943. Rectangular work bench has a rotatable reversible hollow top, each face being available for mounting thereon one or more tools. Tools so mounted can be brought into position for use by rotating bench about a centrally disposed longitudinally extending shaft, while tools on reverse side remain in out of service position. Bench may be easily disassembled and packed in small bulk and reassembled with the aid of a screw-driver and wrench. (Owner) Herman H. Wehringer, 31 Norwood Ave., Upper Montclair, N. J. Groups 33—73; 35—43—59—69. Reg. No. 634.

**Notice**

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

## RENDERED DURING OCTOBER, 1945

UNITED-REXALL DRUG COMPANY *v.* UNACAL PRODUCTS, INCORPORATED (UNION OIL COMPANY OF CALIFORNIA, ASSIGNEE, SUBSTITUTED), Opposition No. 24,339.

In a decision rendered October 2, 1945 (166 Ms. Dec. 855, 67 USPQ 115), *First Assistant Commissioner Frazer* denied a petition by the applicant for review and reversal of the ruling of the Examiner of Interferences in an opposition proceeding instigated by United-Rexall Drug Company, of Boston, Mass., against the application of Unacal Products, Incorporated (Union Oil Company of California, Assignee, Substituted), of Los Angeles, Calif., to register a mark under the provisions of the act of February 20, 1905. By way of counterclaim in its answer to the notice, applicant prayed for the cancelation of certain registrations pleaded and relied upon by opposer, and the Examiner of Interferences ruled that the counterclaim was informal in that it was not accompanied by a title report of each of the marks sought to be canceled, and also was not verified by the person filing the same as required by Trade-Mark Rule 57.

In response to applicant's contention that rule 57 is inapplicable, it was held that a counterclaim for cancelation, the same as a separately filed petition, constitutes an "application" for cancelation within the meaning of Trade-Mark Rule 57, and also within the meaning of the statute; and there would appear to be no less reason for requiring verification in one case than in the other.

In response to applicant's argument that the requirement for title abstracts of the registrations it seeks to have canceled is unnecessary, burdensome, and useless, because the opposition is predicated by the opposer on ownership and title to those very marks, it was held that the burden is upon a petitioner for cancelation, both in an independent proceeding and in an opposition proceeding, to establish facts entitling him to relief; and that here again the requirement of the rule is thus no less reasonable with respect to a counterclaim than with respect to an original application to cancel.

WOOL NOVELTY CO., INC., *v.* SWIFT AND COMPANY, Cancelation No. 4229.

In a decision rendered October 5, 1945 (166 Ms. Dec. 858, 67 USPQ 113), *First Assistant Commissioner Frazer* affirmed as to registration No. 37,359, but reversed as to registration No. 258,709, the action of the Examiner of Interferences who had sustained the petition of Wool Novelty Co., Inc., of New York, N. Y., to cancel two trade-mark registrations owned by Swift and Company, of Chicago, Ill.

After noting that the first registration involved is No. 37,359, issued November 26, 1901, under the act of March 3, 1881, and renewed, the mark being the notation "Wool Soap," and being appropriated to toilet and laundry soaps, it was held that the evidence quite conclusively establishes that the mark is merely descriptive of the goods; and being a manufacturer of competing merchandise, petitioner is presumed to be damaged by the registration.

The other registration is No. 258,709, issued July 16, 1929, under the act of February 20, 1905, covering a composite trade-mark for soap, said to have been used since June 15, 1895. The mark comprises a rather crudely executed representation of two children clad in the artist's conception of pre-horse-and-buggy undershirts, one of which is thigh length, and the other only spine length. Running vertically from heels to head, adjacent the rear elevation of the first child, are printed the words in uniform capital letters: "My mama uses wool soap;" and in corresponding position, from neck to knees of the second child: "I wish mine would," the word "soap" being disclaimed.

After noting that the Examiner of Interferences held the mark to be descriptive in its entirety, and nonregistrable in the absence of a disclaimer of the word "wool," it was held that were the question of registrability one of first impression, as in an opposition proceeding or an ex parte appeal, the action of the Examiner of Interferences would have been correct, but the validity of respondent's registration may be considered here only as it bears upon the likelihood of injury to petitioner.

It was further held that while it is true that the expression "wool soap" is descriptive in its entirety, as used in respondent's mark it is devoid of trade-mark significance and would not be regarded by the public as an indication of origin. Its inclusion in the mark as a part of the quoted sentence would no more enable respondent to prevent its use, descriptively, by others, than would the inclusion of the words "my mama" or "mine" enable respondent to prevent their use.

It was further held that the mark is completely dominated by its pictorial features, and clearly these are not descriptive, so that since petitioner is not injured by the registration of this mark, the Examiner of Interferences erred in recommending its cancelation.

SWIFT AND COMPANY *v.* WOOL NOVELTY CO., INC., Opposition No. 22,370.

In a decision rendered October 5, 1945 (166 Ms. Dec. 856, 67 USPQ 114), *First Assistant Commis-*

*sioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Swift and Company, of Chicago, Ill., to the application of Wool Novelty Co., Inc., of New York, N. Y., to register the notation "WoolFoam," with a disclaimer of the word "Wool," as a trade-mark for a washing compound for the cleansing of sweaters, socks, and woolens. Opposer relied upon its prior use and registration of the alleged trade-mark "Wool Soap" for merchandise of the same descriptive properties.

After noting that in a concurrent decision (*Wool Novelty Co., Inc.*, v. *Swift and Company*, 580 O. G. —, 67 USPQ 113), the action of the Examiner of Interferences sustaining applicant's petition to cancel opposer's registration of the mark relied upon was affirmed, on the ground that it is merely descriptive of the goods, it was held that it follows that any dealer in like goods has the right to use the words "wool soap" in describing such goods, and that opposer will not be damaged by the proposed registration unless applicant's mark is likewise descriptive.

It was held that the word "foam" is, of course, highly suggestive of the character or quality of soaps and other washing compounds, but it is not objectionably descriptive. Nor is it so similar to the word "soap" as to indicate any reasonable likelihood of confusion between the two expressions "Wool Soap" and "WoolFoam."

---

MORTON MANUFACTURING CORPORATION v. AME COSMETIC COMPANY, Opposition No. 23,076.

In a decision rendered October 16, 1945 (166 Ms. Dec. 859, 67 USPQ 121), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Morton Manufacturing Corporation, of Lynchburg, Va., to the application of Ame Cosmetic Company, of New Haven, Conn., for registration of the word "Cleet" as a trade-mark for hair lotion, hair tonic, shampoo, and wave lotion. Applicant, having taken no testimony, was restricted to its filing date, September 3, 1943, for first use of its mark. Opposer is the owner of the trade-mark "Fleet's," used since January, 1890, and registered under the so-called ten-year proviso of the act of February 20, 1905, for a preparation for prevention and treatment of chapped lips and skin, and for fever blisters and cold sores due to external causes. Besides the uses recited in opposer's registration, opposer offered proofs to show that the same preparation, which is a medicated salve, relieves irritations caused by shaving and eyebrow plucking.

It was held that the goods of the parties are of the same descriptive properties whether these additional uses be considered or not.

It was held that although "Cleet" and "Fleet's" differ somewhat in appearance, and have no similarity in significance since opposer's mark is a surname, while applicant's is said to be a contraction of the two words "clean" and "neat," nevertheless, in sound they are almost indistinguishable, and that similarity in sound alone is sufficient to constitute confusing similarity between marks, is well established, so that resolving doubts in opposer's favor, the opposition was properly sustained.

---

DWINELL-WRIGHT COMPANY v. NATIONAL FRUIT PRODUCT COMPANY, INC., Cancelation No. 3929.

In a decision rendered October 16, 1945 (166 Ms. Dec. 860, 67 USPQ 120), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the petition of Dwinell-Wright Company, of Boston, Mass., to cancel certain trade-mark registrations of National Fruit Product Company, Inc., of Washington, D. C., of the word "White House" for apple cider vinegar; apple cider; canned apple products; various canned fruits; and fruit and vegetable juices, respectively. Petitioner relied upon three registrations of the "White House" mark for tea, coffee, and salted peanuts, respectively, the earliest use dating back to 1889.

No testimony was taken by either party, and there is no evidence in the record other than copies of the findings of fact, conclusions of law and decree in a court action, and copies of the opinions of the district judge and the circuit court of appeals, which court action was instigated by respondent against petitioner.

After noting that respondent's only argument in support of its appeal is that the issues raised by the petition to cancel are res judicata, and that the argument is based primarily upon a finding of the district court, to the effect that the goods of plaintiff and defendant are not merchandise of substantially the same descriptive properties, so that there is no substantial likelihood that the goods marketed by the plaintiff would be regarded by prospective purchasers as associated with the source of goods marketed by defendant, it was held that while the First Assistant Commissioner respectfully disagreed with the court, this finding of fact was expressly approved on appeal and is binding upon petitioner in the instant proceeding, but the First Assistant Commissioner did not find it necessary to rest his decision upon that ground, and preferred not to do so.

It was held that it is fundamental that one who applies for the cancelation of a trade-mark registration has the burden of proving himself injured by the registration he seeks to cancel; petitioner has offered no evidence of injury; and while in some cases damage may be presumed, this is not such a case.

It was held that whatever else may be said of the infringement suit, it has settled beyond argument the rights of the parties in their use of the trade-mark in issue; neither can ever again question the right of the other to use the mark on the goods respectively described in the registrations involved in this proceeding, for those rights have been finally adjudicated by a court of competent jurisdiction; in the hands of respondent these registrations have been rendered completely impotent as weapons of aggression against petitioner's existing rights, so that in a legal sense, obviously they are no longer injurious to petitioner, so that the petition to cancel should have been dismissed on the ground that petitioner is not injured by any of the registrations sought to be canceled.



---

CARRIER CORPORATION v. HUDSON MOTOR COMPANY, Opposition No. 22,261.

In a decision rendered October 17, 1945 (166 Ms. Dec. 863, 67 USPQ 122), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Carrier Corporation, of Syracuse, N. Y., to the application of Hudson Motor Car Company, of Detroit, Mich., for registration of the words "Hudson Weathermaster" arranged in T formation, the word "Hudson" being disclaimed, as a trade-mark for automobile heaters utilizing heat from the engine. Applicant claims to have used this mark since October 13, 1939. Opposer relied upon its ownership and use of two trade-marks, namely, "Weathermaker" and "Weathermaster." The first was registered September 17, 1929, for gas, oil, or coal, hot-air furnaces for warming houses, which furnaces or heaters are equipped with instrumentalities for conditioning, purifying, and circulating the air, and air cooling or dehumidifying units for use therewith. The second was registered December 24, 1935, for air conditioning, heating, ventilating, cooling, humidifying, and dehumidifying units and systems. The numbers of these registrations are respectively 261,359 and 331,059.

In response to applicant's argument that it has prima facie the right to the grant of its registration because registration No. 331,059 was cited by the Examiner of Trade-Marks during the ex parte prosecution of the opposed application, but was withdrawn as a reference before the application was passed for publication, it was held that the opposition raises anew the question of applicant's right to register its mark, and the previous holding of the Examiner of Trade-Marks binds neither opposer nor the Examiner of Interferences.

It was held that the burden of proof is upon opposer, but profert by opposer of its registrations, which prove that it was first in the field with its marks, alone suffices to discharge that burden.

It was held that opposer, in order to succeed, is not required to produce evidence of actual confusion, since whether there is likelihood of confusion, and damage to opposer, may be determined by consideration of the goods to which the marks are applied and a comparison of the marks involved.

In response to applicant's argument that the unopposed registration of a composite mark granted to it should be sufficient reason for granting registration of the present mark, it was held that nothing is added to the registrability of the mark here in question by the fact that a somewhat similar mark has previously been registered to applicant.

It was held that the disclaimed personal and geographical name "Hudson" is not a dominant portion of applicant's mark, and if that mark and the marks of opposer were concurrently used upon goods of the same descriptive properties, it seems that confusion in trade would be well-nigh inevitable, so that the important question for determination is whether the goods of the parties are similar.

It was held that while it is true that applicant's goods differ from opposer's goods in respect to methods of marketing and manner and place of installation, nevertheless, the Examiner of Interferences was right in ruling that they are goods of the same descriptive properties within the meaning of the Trade-Mark Act, notwithstanding that the application is classified in Class 19, whereas opposer's registrations are both classified in Class 34, since Patent Office classification is not of controlling importance in the ascertainment of whether two articles are of the same descriptive properties.

In response to applicant's contention that the stipulated evidence clearly shows that opposer has not exploited during the past years the names "Weathermaster" and "Weathermaker" in any trade-mark sense, it was held that the evidence plainly shows the contrary; but nonuse, even if established, would be immaterial here, since opposer's marks are both registered under the act of February 20, 1905.

In response to applicant's introduction of evidence to show that third parties have used the words "Weather" and "Master," together or separately, in trade-marks for various articles, with the avowed purpose of giving a limited scope of protection to opposer's marks, it was held that it is now well settled that in an opposition proceeding such marks may not be so considered.

---

EX PARTE SKYLINE MANUFACTURING COMPANY, INC., Serial Nos. 450,908 and 450,909.

In a decision rendered October 19, 1945 (166 Ms. Dec. 868, — USPQ —), *First Assistant Commissioner Frazer* reversed, in each of two cases, the action of the Examiner of Trade-Marks who had refused to register to Skyline Manufacturing Company, Inc., of Kingston, N. Y., two marks, both dominated by the notation "Over-Kr-Alls" for overalls, jackets, shirts and shorts for infant wear, because it was the Examiner's opinion that the marks are nonregistrable without disclaimer of the word "Over-Alls."

It was held that "overalls" does not occur as a complete word in the mark; that neither "over" nor "alls," standing alone, is a descriptive of the goods; and that "Over-Kr-Alls" is no more than highly suggestive.

---

EX PARTE ELIZABETH ARDEN SALES CORPORATION, Serial No. 462,491.

In a decision rendered October 19, 1945 (166 Ms. Dec. 866, — USPQ —), *First Assistant Commis-*

*sioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Elizabeth Arden Sales Corporation, of New York, N. Y., the words "Radiant Peony" as a trade-mark for lipsticks, rouges and nail polish, in view of a prior registration comprising the single word "Radiant," appropriated to goods described in the registration as perfume, toilet water, rouges, face powder, talcum powder, brilliantine, sachet powder, and dentifrices.

After noting that the goods described in the registration and applicant's goods are in part identical, it was held that the only question for determination is whether the two marks are confusingly similar.

It was held that the two marks "Radiant" and "Radiant Peony" bear too close a resemblance to be concurrently used on identical merchandise without likelihood of confusion.

---

C. B. SHANE CORPORATION *v.* TEEN TIMERS INC., Opposition No. 22,968.

In a decision rendered October 23, 1945 (166 Ms. Dec. 869, 67 USPQ 140), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of C. B. Shane Corporation, of Chicago, Ill., to the application of Teen-Timers Inc., of New York, N. Y., for registration of a composite mark for junior and teen dresses, and denying a motion brought by applicant for reopening and rehearing. Applicant's mark comprises the word "Teentimer" in slantwise script. The initial "T" is superimposed upon the fanciful representation of an adolescent girl. Applicant claims use of the mark since July 15, 1943. Opposer relied upon its ownership of two registrations of the words "Two Timer," likewise in script, but printed in a horizontal line. The first was issued June 29, 1937, for men's overcoats and topCoats. The second was issued September 7, 1943, upon an application filed March 29, 1943, for men's, boys', women's, and girls' overcoats and topcoats.

With respect to the denial of the motion for reopening and rehearing, it was held that the ordinary rule, which is applicable here, is that after judgment no contested proceeding will be reopened for the presentation of evidence, unless such evidence is newly discovered; and applicant does not assert that its proposed evidence is newly discovered, much less that it could not have been earlier found by the exercise of reasonable diligence.

On the merits of the case, after noting that it is manifest from the registrations alone that opposer is the prior user and that applicant conceded before the Examiner of Interferences that the goods of the parties have the same descriptive properties, it was held that the chief question for determination is whether the marks under which such goods are respectively sold are confusingly similar.

Although the two marks "Two Timer" and "Teentimer" do not have the same significance, and applicant's mark is displayed in a manner to emphasize such differences as the common initial "T," and the common word "timer" permit; so that the marks also differ somewhat in appearance, nevertheless, it was held that considered as a whole, they are very much alike in sound; and similarity in sound alone may be sufficient to cause confusion.

---

AMERICAN CRAFTSMEN'S CO-OPERATIVE COUNCIL, INC., *v.* PROMOTIONS, INC. (AMERICAN HOMES INSTITUTE, INC., ASSIGNEE, SUBSTITUTED), Opposition No. 22,974.

In a decision rendered October 24, 1945 (166 Ms. Dec. 871, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences, and thereby sustained the opposition of American Craftsmen's Co-Operative Council, Inc., of New York, N. Y., to the application of Promotions, Inc. (American Homes Institute, Inc., Assignee, Substituted), of Youngstown, Ohio, for registration of the notation "American Homes," with a disclaimer of the word "American," as a trademark for ceramic dinnerware in sets and in separate pieces.

Since applicant took no testimony, it was held that the earliest use of the mark which it may claim in this proceeding is the filing date of its application, namely, May 24, 1943.

After noting that in the notice of opposition opposer pleaded its own use of the words "America House" as a trade-mark for handmade commodities including ceramics, and also as a trade name for its business since a date prior to any date on which applicant has made any alleged use of the words "American Homes;" and that the Examiner of Interferences was of the opinion that it had proved neither, it was held that as to technical trade-mark use the action of the Examiner of Interferences was correct, since there is no documentary proof in that record, and the oral testimony is extremely vague and indefinite.

It was held, however, that the record establishes beyond question opposer's use of the term "America House" as a trade name continuously from the inception of its business in 1940, so that if applicant's mark were registered applicant would thereby be afforded prima facie evidence of an exclusive right to its use, and of the right to prevent the use by others of confusingly similar terms or expressions in the sale of competitive merchandise; and that "American Homes" and "America House" are confusingly similar seems clear beyond argument.

---

KEYES FIBRE COMPANY *v.* BASIC FOOD MATERIALS, INC., Opposition No. 23,046.

In a decision rendered October 25, 1945 (166 Ms. Dec. 874, 67 USPQ 142), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had dismissed the opposition of Keyes Fibre Company, of Waterville, Maine, to the application of Basic Food Materials, Inc., of Cleveland, Ohio, for registration of the notation



"BAKE-RITE" as a trade-mark for paper baking pans, and who had adjudged applicant entitled to the registration for which it has made application. Opposer relied upon its prior use and registration of the trade-mark "BAKoWARE" for containers made from molded pulp for baking or serving hot foods or liquids.

It was held that it seems obvious that the goods of the parties are substantially identical.

After noting that because the Examiner of Interferences was of the opinion that the prefixes "BAK" and "BAKE," as used in the marks, are merely descriptive of a primary characteristic of the goods sold under these marks, and that purchasers would pay a relatively small degree of attention to that feature of the marks in identifying the respective products as to source, but for such purpose would rely primarily on the terminal portions "oWARE" and "RITE," which were deemed to be distinctively different in all material respects, so that therefore the marks are not so similar as to be likely to cause confusion, the First Assistant Commissioner held that he was unable to adopt the Examiner's reasoning because if the syllable "BAK" is descriptive of opposer's goods, most certainly the word "WARE" is equally so, and the interposition of the letter "o" is without significance; and the Examiner has in effect challenged the validity of opposer's registration, which it is well established may not be done in an opposition proceeding.

It was held that in any event, the marks are confusingly similar, particularly in view of the character of the merchandise with which they are used.

It was held that while the registrability of opposer's mark may not be questioned in this proceeding, that is not true of applicant's mark; and regardless of the opposition, the proposed registration should be refused because "BAKE-RITE" is descriptive of applicant's goods.

---

B. M. DOUGLAS CO., INC., *v.* ABBOTTS DAIRIES, INCORPORATED, Opposition No 22,773.

In a decision rendered October 26, 1945 (166 Ms. Dec. 881, 67 USPQ 172), *Assistant Commissioner Van Arsdale* reversed the action of the Examiner of Interferences who had dismissed the notice of opposition filed by B. M. Douglas Co., Inc., of New York, N. Y., against granting registration to Abbotts Dairies, Incorporated, of Philadelphia, Pa., of the mark "Ameroque" for a flavored cream cheese spread. At present applicant is applying the mark to a cheese spread composed of cream cheese and blue cheese, but containing no roquefort cheese. Opposer is one of many who sell in this country imported roquefort cheese.

It was held that opposer's allegations as to likelihood of being damaged by the granting to applicant of the opposed registration is sufficient to entitle opposer to file the notice of opposition, and that the principal issue is whether there is such similarity between "Ameroque" and "roquefort" when applied to cheese that confusion would be likely to result.

It was held that although applicant has the right to label roquefort cheese by its true name, as well as to call a cheese spread compounded in America and containing roquefort cheese "American Roquefort," and if "Ameroque" is universally recognized to be merely a contraction of the term "American Roquefort" applicant may use the contraction on such spread, nevertheless, all such uses of the mark would be merely descriptive of the goods and therefore not registrable under the act of 1905.

It was held that the name "Ameroque" is so similar to "roquefort" and to "American Roquefort" that the public and purchasers would be likely to be misled, confused and deceived into believing that the cheese spread to which applicant applies the name "Ameroque" contains roquefort cheese, and therefore the notice of opposition should have been sustained and applicant declared not entitled to the registration for which it has made application.

---

EX PARTE VINCENT CHRISTINA & COMPANY, INC., Serial No. 468,870.

In a decision rendered October 30, 1945 (166 Ms. Dec. 879, 67 USPQ 175), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Vincent Christina & Company, Inc., of New York, N. Y., the notation "Chondro-Stann," under the provisions of the act of February 20, 1905, as a trade-mark for a preparation for intramuscular injection—an organic tin preparation for use in the treatment of furuncles, carbuncles, acne, and other staphylococcal infections, both words being printed in uniform block letters. The Examiner, having found the word "Stann" listed as a surname in the Washington, D. C., city and telephone directories, based his final refusal to register on the ground that applicant's mark consists in a descriptive term and the name of an individual not distinctively displayed. In his answer to the appeal, he also suggested that "Stann" is descriptive.

In response to applicant's argument that the Examiner's suggestion of the descriptiveness of "Stann" should be ignored, because the appeal is from the grounds on which the final rejection is based and not from the Examiner's statement, it was held that since applicant made no move to reopen prosecution of the case before the Examiner, the additional ground of rejection was properly before the First Assistant Commissioner for review.

After noting that the word "Chondro" is defined in Lippincott's New Medical Dictionary, the authority relied upon by the Examiner, as a combining form signifying cartilage, it was held that it follows that this word is descriptive of applicant's goods, and is nonregistrable under the act of 1905 regardless of whether it would be considered descriptive by the general public, since it is equally nonregistrable if descriptive to the physicians and surgeons to whom applicant's goods are now sold.

In response to applicant's assertion that the telephone books of the five boroughs of New York city,

with a population of over seven million, do not list "Stann" as the name of an individual, it was held that while that proves the name to be unusual, it is nevertheless a surname. And the statute makes no distinction between rare names and those in common use.

It was held that a surname is nonregistrable under the act of 1905, notwithstanding the fact that it may have various other meanings.

In response to applicant's contention that its association with the term "Chondro-" affords distinctive display to the name "Stann" within the meaning of the statute, it was held, however, that the statute requires that the name itself be written, printed, impressed, or woven in some particular or distinctive manner, or in association with a portrait of the individual, so that this requirement is not satisfied by the addition of other words.

After noting that "Stann-" is defined in Webster's New International Dictionary as a combining form from stannum, denoting relation to, or in connection with, tin, or indicating tin as an ingredient, it was held that since applicant's product is an organic tin preparation, this term also is therefore descriptive.

It was held that neither word of applicant's mark is separately registrable, and their combination in no way changes their significance in any trade-mark sense, so that the entire mark is likewise nonregistrable.

---

MINNESOTA MINING & MANUFACTURING COMPANY, *v.* EVERETT N. MCDONNELL, Opposition No. 22,511.

In a decision rendered October 30, 1945 (166 Ms. Dec. 875, 67 USPQ 173), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Minnesota Mining & Manufacturing Company, of St. Paul, Minn., to the application of Everett N. McDonnell, of Chicago, Ill., for registration of a trade-mark consisting essentially in the letters "MM" for use on snap switches. In the notice of opposition opposer pleaded its ownership of eight trade-mark registrations, and also its alleged use of the mark or marks on which it relies, prior to the date of first use claimed by applicant, in connection with certain items for which no registrations had then been issued. Four months after the filing of its notice of opposition opposer applied for registration of the notation "3–M" as a trade-mark for electrical tape. This mark was subsequently registered, and a copy of the registration was in evidence.

After noting that the goods named in the eight registrations pleaded in the notice are abrasive paper and cloth, polishing wax, various adhesive preparations, and various quartz, gravel, sand, and silica products, it was held that obviously none of them have the same descriptive properties as applicant's goods, so that the alleged similarity of applicant's mark to the marks under which they are sold becomes immaterial.

In response to opposer's argument that its electrical tape does not have the same descriptive properties as applicant's snap switches, because snap switches and electrical tape are both purchased by the general public in hardware stores and electrical supply houses, and are sometimes displayed side by side and sold over the same counter, it was held that while such circumstances may not be disregarded, they are not controlling. And even assuming, arguendo, that the Examiner was wrong in this particular, he was clearly right in his further holding that opposer had failed to establish use of its mark on electrical tape as of a date prior to applicant's first use of the mark sought to be registered.

In response to opposer's argument that its registration of the "3–M" mark for electrical tape affords a sufficient basis for sustaining the opposition, it was held that opposer's filing date was sixteen months later than applicant's, so that the registration is thus of no avail to opposer in this proceeding.

As to the opinions of several of opposer's witnesses, to the effect that the sale of applicant's goods under the mark he seeks to register would lead purchasers to believe that such goods originated with opposer, it was held that although entitled to be given consideration for what they are worth, the opinions so expressed are not binding on the tribunals of the Patent Office, and that confusion in trade will not be likely to result in a statutory sense, unless the goods of the parties possess the same descriptive properties.

In response to opposer's complaint that the Examiner of Interferences made no ruling as to the alleged similarity of the marks, it was held that in the view he took of the case that was unnecessary, nor is it necessary here, although the First Assistant Commissioner stated that it seemed proper to say that in his opinion applicant's mark bears too near a resemblance to opposer's "3–M" mark to be registered for merchandise of the same descriptive properties, had opposer established priority of use in connection with such merchandise.

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 27, 1945

[VOL. 580. No. 4]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 484,371. SHAW COAL & COKE COMPANY, Philadelphia, Pa. Filed June 9, 1945.




The name "Cortez" and the representation of the portrait is that of the deceased explorer, Fernando Cortez. The words "Shaw Coal & Coke Company" are disclaimed apart from the mark.

FOR COAL.

Claims use since Aug. 1, 1943.

---

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 485,039. 'TWILL LABORATORIES, Wilmington, N. C. Filed June 25, 1945.

Yes, 'twill

FOR POWDER FOR CLEANING PAINTED, ENAMELED SURFACES, TILE, LINOLEUM, WOODWORK, WALLS, AND FIREPLACES.

Claims use since May 1937.

Ser. No. 485,733. MIRANOL CHEMICAL COMPANY, INC., Irvington, N. J. Filed July 12, 1945.

MIRANOL

FOR SYNTHETIC DETERGENTS, CONSISTING OF A SULFONATED FATTY ACID AMIDE DERIVATIVE WITH DILUENTS, CONSISTING A SOAPLESS DETERGENT USED AS A CLEANING COMPOUND.

Claims use since June 1941.

---

Ser. No. 485,734. MIRANOL CHEMICAL COMPANY INC., Irvington, N. J. Filed July 12, 1945.

MIRAPON

FOR SYNTHETIC DETERGENTS, CONSISTING OF A SULFONATED FATTY ACID AMIDE DERIVATIVE WITH DILUENTS, CONSTITUTING A SOAPLESS DETERGENT USED AS A CLEANING COMPOUND.

Claims use since June 1941.

---

Ser. No. 486,138. RAYMOND T. BRADLEY, doing business as Pawl-Rae Products Company, South Bend, Ind. Filed July 23, 1945.

CRESSA

FOR HAND CLEANER.

Claims use since Feb. 9, 1945.

## CLASS 6

### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 472,608. RISH-ARD LABORATORIES, Los Angeles, Calif., assignor to J. Floyd Peal, Los Angeles. Filed July 25, 1944.

En-Viva

"LONG LIVE-YOUR HAIR"!

Applicant disclaims exclusive use of the words "Long Live Your Hair" except in the relation and association shown.

FOR HAIR DRESSING.
Claims use since July 19, 1944.

---

Ser. No. 473,380. GUERLAIN PERFUMERY CORPORATION OF DELAWARE, Wilmington, Del., and New York, N. Y. Filed Aug. 17, 1944.

Secret de Bonne Femme

FOR FACE CREAMS.
Claims use since 1906.

---

Ser. No. 476,826. ANABOLIC FOOD PRODUCTS, INC., Glendale, Calif. Filed Nov. 24, 1944.

POLYTRON

FOR VITAMIN AND MINERAL PREPARATION USED AS A DIETARY SUPPLEMENT.
Claims use since Sept. 19, 1944.

---

Ser. No. 477,890. KOPPERS COMPANY, INC., Kearny, N. J. Filed Dec. 23, 1944.

HEXSOLIS

FOR SAPONIFIED CRESYLIC COMPOUND USED AS A DISINFECTANT AND ANTISEPTIC, A DEODORANT AND INCIDENTALLY AS A CLEANSER.
Claims use since September 1930.

Ser. No. 478,837. L. SONNEBORN SONS, INC., New York, N. Y. Filed Jan. 20, 1945.

ESTEROL

FOR EMULSIFIABLE BLEND OF ALKYL DERIVATIVES OF FATTY ACIDS AND HIGHLY REFINED MINERAL WHITE OIL, HAVING LUBRICATING, PENETRATING, AND WETTING ACTION, AND USED AS AN ADJUNCT IN THE DYEING, SIZING, AND OTHER PROCESSING OF TEXTILE YARNS, FIBERS, AND FABRICS.
Claims use since 1940.

---

Ser. No. 479,282. FARBY & BESTHOFF, INC., New York, N. Y. Filed Feb. 1, 1945.

MICRO NU-COP

FOR NEUTRAL TRI-BASED COPPER SULPHATE USED TO CONTROL VARIOUS AGRICULTURAL DISEASES.
Claims use since Dec. 12, 1944.

---

Ser. No. 480,244. INTERNATIONAL CHEMICAL COMPANY, Chicago, Ill. Filed Feb. 26, 1945.

THERMOSOL

FOR DRY ALKALINE PREPARATION USED WITH WATER FOR DISSOLVING OBSTRUCTIONS IN DRAIN PIPES AND THE LIKE.
Claims use since Jan. 1, 1914.

---

Ser. No. 481,787. HERBERT J. HERIBERT, New York, N. Y. Filed Apr. 6, 1945.

HERIBEX

FOR SOLUTION TO BE USED AS A COATING, FINISH OR LACQUER FOR TEXTILES AND FOR PLASTICS, AND PARTICULARLY FOR TEXTILES MADE OF NATURAL, SYNTHETIC, OR MIXED YARNS OR GLASS FIBERS FOR WATERPROOFING, MILDEWPROOFING, FLAMEPROOFING, AND MOTHPROOFING.
Claims use since Jan. 12, 1945.

---

Ser. No. 481,993. HERBERT J. HERIBERT, New York, N. Y. Filed Apr. 11, 1945.

LUPLEX

FOR SOLUTION TO BE USED AS A COATING, FINISH OR LACQUER FOR TEXTILES AND FOR PLASTICS, AND PARTICULARLY FOR TEXTILES MADE OF NATURAL, SYNTHETIC, OR MIXED YARNS OR GLASS FIBERS FOR WATERPROOFING, MILDEWPROOFING, FLAMEPROOFING, AND MOTHPROOFING.
Claims use since Sept. 1, 1944.



Ser. No. 481,994. HERBERT J. HERIBERT, New York, N. Y. Filed Apr. 11, 1945.

POLYPLEX

FOR SOLUTION TO BE USED AS A COATING, FINISH OR LACQUER FOR TEXTILES AND FOR PLASTICS, AND PARTICULARLY FOR TEXTILES MADE OF NATURAL, SYNTHETIC, OR MIXED YARNS OR GLASS FIBERS FOR WATERPROOFING, MILDEWPROOFING, FLAMEPROOFING, AND MOTHPROOFING.
Claims use since Sept. 1, 1944.

---

Ser. No. 482,341. PARFAIT, INCORPORATED, Chicago, Ill. Filed Apr. 19, 1945.

FLORIN

FOR FACE POWDER.
Claims use since Jan. 10, 1944.

---

Ser. No. 482,344. PARFAIT, INCORPORATED, Chicago, Ill. Filed Apr. 19, 1945.

PIECES OF EIGHT

FOR COSMETIC CREAMS.
Claims use since Jan. 10, 1944.

---

Ser. No. 482,545. PUREX PRODUCTS, INCORPORATED, Baltimore, Md. Filed Apr. 24, 1945.

BEAU BRUMMEL

FOR AFTER SHAVE LOTION, HAND LOTION, QUININE HAIR LOTION, MASSAGE CREAM, SHAMPOO, LILAC LOTION, HAIR DRESSING, MEN'S TALC, BAY RUM, BODY DEODORANT FOR GENTLEMEN.
Claims use since June 7, 1944.

---

Ser. No. 484,165. ETABLISSEMENTS RIGAUD, INC., New York, N. Y. Filed June 5, 1945.

ALIZE

FOR PERFUMES AND TOILET WATERS.
Claims use since May 28, 1945.

Ser. No. 484,169. ETABLISSEMENTS RIGAUD, INC., New York, N. Y. Filed June 5, 1945.

TEMERAIRE

FOR PERFUMES AND TOILET WATERS.
Claims use since May 28, 1945.

---

Ser. No. 485,057. PRIMROSE HOUSE, INC., New York, N. Y. Filed June 26, 1945.

Petal Garland

FOR NAIL POLISH, LIPSTICK, ROUGE, EYE SHADOW, SACHETS, HAIR SHAMPOO, HAIR TONIC, LEG MAKE-UP, TALCUM POWDER, FACE POWDER, DUSTING POWDER, MAKE-UP CREAM, DEODORANT, ASTRINGENT, PERFUME, COLOGNE, AFTER-SHAVING LOTION, BATH SALTS, BATH OILS, HAND LOTION, HAND CREAM, TOILET WATER, MASCARA, EYEBROW AND EYELASH DARKENER, BUBBLE BATH, EYEBROW PENCIL, LIP POMADE, AND FACE LOTIONS AND OILS.
Claims use since June 5, 1945.

---

Ser. No. 485,371. BENJAMIN D. SMITH, doing business as Smith Manufacturing Company, Utica, N. Y. Filed July 2, 1945.

KIL-O-SAN

No claim is made to the word "Kil" (Kill) apart from the mark shown.

FOR INSECTICIDES AND FLY AND INSECT SPRAY.
Claims use since Jan. 6, 1945.

---

Ser. No. 485,436. CONTINENTAL COMMODITIES CORPORATION, New York, N. Y. Filed July 4, 1945.

CONCOMO

FOR TARTARIC ACID, GERANIUM OIL, AND MENTHOL.
Claims use since Oct. 1, 1944.

Ser. No. 485,548. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y. Filed July 7, 1945.

**ISORENIN**

FOR TREATMENT OF ASTHMA AND RELATED CONDITIONS BY MEANS OF TABLETS AND INJECTIONS.
Claims uses since June 10, 1945.

---

Ser. No. 485,943. COOPERATIVE SEED AND FARM SUPPLY SERVICE, INC., Richmond, Va. Filed July 18, 1945.

**75 DUST**

No claim is made to the word "Dust" apart from the mark as shown.
FOR MIXTURE OF INGREDIENTS FOR MAKING INSECTICIDES AND FUNGICIDES.
Claims use since Mar. 2, 1942.

---

Ser. No. 485,944. COOPERATIVE SEED & FARM SUPPLY SERVICE, INC., Richmond, Va. Filed July 18, 1945.

**620 DUST**

No claim is made to the word "Dust" apart from the mark as shown.
FOR MIXTURE OF INGREDIENTS FOR MAKING INSECTICIDES AND FUNGICIDES.
Claims use since Mar. 2, 1942.

---

Ser. No. 485,960. THE REFINITE CORPORATION, Omaha, Nebr. Filed July 18, 1945.

**REFINITE**

FOR ALUMINUM SILICATE, USED IN WATER SOFTENING APPARATUS AS AN EXCHANGER.
Claims use since Jan. 1, 1939.

---

Ser. No. 486,146. GEORGE W. FLEISCHMAN, Long Beach, Calif. Filed July 23, 1945.

Aer-o-cide

FOR AIR DISINFECTANTS, COMPRISING PROPYLENE GLYCOL AND TRI-ETHYLENE GLYCOL OR A MIXTURE.
Claims use since June 23, 1945.

Ser. No. 486,300. FRASER HAIR FASHIONS, St. Paul, Minn. Filed July 26, 1945.

**KURLIUM**

FOR CHEMICAL PREPARATION USED AS AN AGENT TO SPEED THE WAVING OF HAIR.
Claims use since Apr. 10, 1945.

---

Ser. No. 486,367. GOLD CAP CHEMICAL CO., INC., Somerville, Mass. Filed July 27, 1945.

EGB 572

FOR SHAMPOO.
Claims use since July 21, 1945.

---

Ser. No. 486,408. HERCULES POWDER COMPANY, Wilmington, Del. Filed July 28, 1945.

**HERCULES**

FOR CELLULOSE ACETATE-PROPIONATE.
Claims use since July 13, 1945.

---

Ser. No. 486,411. HERCULES POWDER COMPANY, Wilmington, Del. Filed July 28, 1945.



FOR CELLULOSE ACETATE-PROPIONATE.
Claims use since July 13, 1945.



Ser. No. 486,441. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed July 28, 1945.

**Cebefortis**

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Mar. 28, 1945.

---

Ser. No. 486,542. OLGA PATAKY, Philadelphia, Pa. Filed July 31, 1945.

LIL-LO

FOR SKIN LOTION IN THE FORM OF A CREAM.
Claims use since Apr. 21, 1938.

---

Ser. No. 486,544. OLGA PATAKY, Philadelphia, Pa. Filed July 31, 1945.

POTENTIA

FOR SKIN CLEANSING CREAM.
Claims use since Apr. 21, 1938.

---

Ser. No. 486,585. D. H. MYERSON, doing business as Monroe Distributing Company, Los Angeles, Calif. Filed Aug. 1, 1945.

NQB HILL

FOR AFTER SHAVE LOTION, HAIR LOTION, BODY COLOGNE, SHAMPOO, TALCUM POWDER, AND HAIR OIL.
Claims use since June 11, 1945.

---

Ser. No. 486,958. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Aug. 9, 1945.

LEDINAC

FOR AMINO ACID PREPARATION FOR USE IN THE TREATMENT OF AMINO ACIDS DEFICIENCY AS A NUTRITIONAL SUPPLEMENT.
Claims use since July 23, 1945.

---

Ser. No. 487,090. ROSCOE C. MCCULLOCH, Columbus, Ohio. Filed Aug. 13, 1945.

**DRIVA**

FOR LAXATIVE PREPARATION.
Claims use since May 31, 1945.

## CLASS 9

### EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 478,247. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn. Filed Jan. 4, 1945. Under section 5b of the act of 1905 as amended in 1920 as to "Remington".

Remington

The lining on the drawing indicates the color red.
FOR FIREARMS—NAMELY, MILITARY AND SPORTING RIFLES, SHOTGUNS, PISTOLS, AIR RIFLES, AND PARTS THEREOF; AND AMMUNITION—NAMELY, METALLIC CARTRIDGES, METALLIC SHOT SHELLS, PAPER SHOT SHELLS, EMPTY METALLIC AND PAPER SHELLS, BLANK CARTRIDGES, CAPS, PRIMERS, WADS, SHOT AND BULLETS.
Claims use since 1934.

---

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 478,797. AGENCY PAPER COMPANY, New York, N. Y. Filed Jan. 20, 1945.

Sky-Lane

The drawing is lined to indicate the color blue.
FOR CARBON PAPER AND TYPEWRITER RIBBONS.
Claims use since Jan. 5, 1945.

---

Ser. No. 480,255. WITCO CHEMICAL COMPANY, Chicago, Ill. Filed Feb. 26, 1945.

**FERROX**

FOR HYDRATED YELLOW IRON OXIDE USED AS A PIGMENT IN INKS.
Claims use since January 1930.

Ser. No. 483,225. HARRY L. HEYMANN, doing business as H. L. Heymann Company, Easton, Pa. Filed May 11, 1945.

TYPE KRAFT

No claim is made to the word "Type" apart from the mark shown.
FOR TYPEWRITER RIBBONS AND CARBON PAPERS.
Claims use since July 1919.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 472,601. VITA-VAR CORPORATION, Newark, N. J. Filed July 24, 1944.

RAYDIZED

FOR CHEMICAL COMPOUND TO PROVIDE A WATERPROOFING COATING FOR WOOD, BRICK, AND LIKE BUILDING MATERIALS.
Claims use since May 15, 1944.

Ser. No. 481,466. CORK IMPORT CORPORATION, New York, N. Y. Filed Mar. 29, 1945.

NOVOID

FOR HEAT AND SOUND INSULATION MATERIAL MADE ESSENTIALLY OF CORK, VIBRATION ISOLATION MATERIAL MADE ESSENTIALLY OF CORK FOR USE IN FOUNDATION CONSTRUCTION, HEAT AND SOUND INSULATION MADE ESSENTIALLY OF MINERAL WOOL FIBERS, ASPHALTIC COMPOSITIONS FOR USE AS SEAM, JOINT, AND CREVICE FILLERS, AND AN ASPHALTIC MASTIC FOR PACKING OPENINGS IN INSULATION MATERIALS.
Claims use on heat and sound insulation material made essentially of cork since about Oct. 16, 1923; on the vibration isolation material made essentially of cork for use in foundation construction since about Dec. 15, 1934; on the heat and sound insulation material made essentially of mineral wool fibers since about Mar. 10, 1943; on the asphaltic compositions for use as seam, joint, and crevice fillers since about June 12, 1933; and on the mastic for packing openings in insulation materials since about June 12, 1939.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 475,358. YOUNG RADIATOR COMPANY, Racine, Wis. Filed Oct. 14, 1944.



FOR AIR COOLED HEAT EXCHANGER SURGE VALVE.
Claims use since Apr. 2, 1943.

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 475,346. THE UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Oct. 14, 1944.



The lining on the drawing is used simply for shading.
FOR PASTE PAINT.
Claims use since June 1939.

Ser. No. 480,256. WITCO CHEMICAL COMPANY, Chicago, Ill. Filed Feb. 26, 1945.

FERROX

FOR HYDRATED YELLOW IRON OXIDE USED AS A PIGMENT IN PAINTS.
Claims use since January 1930.

Ser. No. 483,132. ANDREW BROWN COMPANY, Los Angeles, Calif. Filed May 9, 1945.

SYNCHRO

FOR METAL PAINT PRIMER.
Claims use since Apr. 17, 1945.



Ser. No. 483,578. JOHN MCQUADE & CO., INC., New York, N. Y. Filed May 19, 1945. Under 10-year proviso.

McQuade

FOR READY-MIXED PAINTS; PASTE PAINTS; PAINT ENAMELS; STAINS; VARNISHES; COLORS IN OIL; UNDERCOATERS; SEALERS FOR WOODEN SURFACES, WALL PLASTER OR POROUS SURFACES; PRIMERS; AND POLISHES FOR FURNITURE AND FLOORS.
Claims use since 1885.

Ser. No. 484,401. BENJAMIN J. HARDY, New York, N. Y. Filed June 11, 1945.




No claim is made to the words "For All Surfaces That Need Coating" and "Film Finish" apart from the mark as shown.
FOR LIQUID PREPARATION APPLICABLE TO WALLS, FLOORS, WOOD, LINOLEUM, CEMENT, ASPHALT, TILE, RUBBER AND METAL SURFACES, AND THE LIKE, TO PRODUCE A TRANSPARENT FINISHING COATING THEREON WHICH PROTECTS, BEAUTIFIES, AND PRESERVES.
Claims use since November 1943.

Ser. No. 486,215. JOHN MCQUADE & CO., INC., New York, N. Y. Filed July 24, 1945.

WOODLIFE

FOR READY MIXED PAINTS AND VARNISHES.
Claims use since Feb. 4, 1927.

Ser. No. 486,382. SAPOLIN CO. INC., New York, N. Y. Filed July 26, 1945.

CELOKAL

FOR READY MIXED PAINTS.
Claims use since July 10, 1945.

## CLASS 19

### VEHICLES

Ser. No. 480,465. WILLIAM BLACKMAN MATTHEWS, doing business as The W. B. Matthews Company, San Antonio, Tex. Filed Mar. 3, 1945.

WESTERN AERO

No claim is made to the word "Aero" apart from the mark.
FOR SHOCK CORD COVERS, WHICH ARE CANVAS COVERS FITTED OVER THE RUBBER RINGS FUNCTIONING AS SHOCK ABSORBERS, ON AEROPLANE LANDING STRUTS.
Claims use since Oct. 2, 1944.

Ser. No. 482,733. THE COLUMBIA MILLS, INC., New York, N. Y. Filed Apr. 28, 1945.

AURORA

FOR FLOOR TRUCKS WITH TRAYS FOR CARRYING SHADE ROLLERS, AND REMOVABLE TRAYS THEREFOR, SOLD AS A UNIT.
Claims use since May 16, 1911.

Ser. No. 485,312. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed June 30, 1945.

*Clipper*

FOR SEAT COVERS FOR MOTOR VEHICLES.
Claims use since June 18, 1945.

Ser. No. 485,313. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed June 30, 1945.

*Country Club*

FOR SEAT COVERS FOR MOTOR VEHICLES.
Claims use since June 18, 1945.

Ser. No. 485,314. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed June 30, 1945.

*Fifth Avenue*

FOR SEAT COVERS FOR MOTOR VEHICLES.
Claims use since June 18, 1945.

Ser. No. 485,385. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed July 2, 1945.

**Fairway**

FOR SEAT COVERS FOR MOTOR VEHICLES.
Claims use since June 18, 1945.

---

Ser. No. 485,487. AERONCA AIRCRAFT CORPORATION, Middletown, Ohio. Filed July 6, 1945.

AERONCA

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since July 1939.

---

## CLASS 21

## ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 463,817. MAX HURLEY, London, England. Filed Oct. 1, 1943.

**HURSEAL**

FOR ELECTRICALLY HEATED, OIL LOADED, HERMETICALLY SEALED RADIATORS FOR HEATING ROOMS, HORTICULTURAL HOUSES, AND OTHER STRUCTURES.
Claims use since October 1941.

---

Ser. No. 473,749. REPUBLIC PRECISION MFG. CO., Chicago, Ill. Filed Aug. 30, 1944.

**VOLCANO ROASTER—TOASTER**

Exclusive right to use of the words "Roaster-Toaster" is not claimed apart from the mark.
FOR ELECTRIC STOVES AND PARTS THEREOF.
Claims use since about Aug. 22, 1944.

---

Ser. No. 478,367. THEATRE SPECIALTIES, INCORPORATED, Los Angeles, Calif. Filed Jan. 6, 1945.

**BEVELITE**

FOR ELECTRICAL DISPLAY SIGNS AND THE LETTERS FITTED FOR ELECTRICAL ILLUMINATION FORMING A PART THEREOF.
Claims use since Nov. 25, 1944.

Ser. No. 480,316. DYNAMATIC CORPORATION, Kenosha, Wis. Filed Feb. 28, 1945.

**DYNAMATIC**

FOR ELECTRO-MAGNETIC CLUTCHES OR COUPLINGS FOR USE AS ELECTRIC VARIABLE-SPEED POWER-TRANSMISSIONS ON POWER BOATS AND IN INDUSTRIAL MACHINERY—NAMELY, COMPRESSORS; REFRIGERATORS; AND FANS; ELECTRIC CLUTCHES; ELECTRIC BRAKES; AND VOLTAGE CONTROLS.
Claims use on electro-magnetic clutches or couplings for use as electric variable-speed power-transmissions on power boats since July 18, 1939, and in industrial machinery—namely, compressors since Mar. 5, 1934; on refrigerators since July 21, 1937; on fans since Dec. 27, 1939; on electric clutches since Dec. 27, 1939; on electric brakes since Sept. 22, 1938; and on voltage controls since Oct. 30, 1943.

---

Ser. No. 482,569. FRANKLIN TRANSFORMER MANUFACTURING COMPANY, Minneapolis, Minn. Filed Apr. 25, 1945.

**MULTI-MATIC**

FOR BATTERY CHARGERS.
Claims use since Oct. 10, 1944.

---

Ser. No. 483,212. COLOSO LIMITED, Ridgefield, N. J. Filed May 11, 1945.

**Coloso**

FOR ELECTRICAL HOUSEHOLD APPLIANCES—NAMELY, ELECTRIC FLAT IRONS, COOKING AND HEATING STOVES, WAFFLE IRONS, CURLING IRONS, PERCOLATORS, AND COFFEE MAKERS.
Claims use since Apr. 9, 1945.

---

Ser. No. 483,711. AMERICAN GENERATOR & ARMATURE COMPANY, Chicago, Ill. Filed May 24, 1945.

**Commando**

FOR ELECTRIC GENERATORS AND ARMATURES.
Claims use since Jan. 1, 1943.



Ser. No. 484,250. DURO-TEST CORPORATION, North Bergen, N. J., and elsewhere. Filed June 7, 1945.

DURO LITE

The term "Lite" is disclaimed apart from the mark as shown.
FOR INCANDESCENT LAMPS.
Claims use since Apr. 28, 1945.

---

Ser. No. 484,252. DURO-TEST CORPORATION, North Bergen, N. J., and elsewhere. Filed June 7, 1945.

DURO TEST

The term "Test" is disclaimed apart from the mark shown.
FOR FLUORESCENT LAMPS.
Claims use since December 1940.

---

## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 479,000. JOHNSTON-CROWDER MANUFACTURING COMPANY, Birmingham, Ala. Filed Jan. 25, 1945.

**Stack-Rite**

FOR TOY BUILDING BLOCKS.
Claims use since Nov. 24, 1944.

---

Ser. No. 484,943. CORTLAND LINE COMPANY, INC., Cortland, N. Y. Filed June 23, 1945.

**"VACUOIL"**

FOR FISHING LINES.
Claims use since Mar. 6, 1922.

---

Ser. No. 486,612. E. WESTON FARMER, doing business as The Buildo Co., Minneapolis, Minn. Filed Aug. 2, 1945.

**Buildo**

FOR TOY CONSTRUCTION SETS.
Claims use since Oct. 8, 1944.

## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 480,443. DYNAMATIC CORPORATION, Kenosha, Wis. Filed Mar. 3, 1945.

**DYNAMATIC**

FOR VALVES—TO-WIT, OVERRUNNING POWER-TRANSMISSION CLUTCHES.
Claims use since March 1938.

---

Ser. No. 481,759. LOUIS RUPRECHT, doing business as Pulverizing Machinery Company, Montclair and Summit, N. J. Filed Apr. 5, 1945.

**MIKRO-ATOMIZER**

No Claim is made to the word "Atomizer" apart from the mark.
FOR GRINDING AND PULVERIZING MACHINES FOR GRINDING CHEMICALS, COLORS, DYES, COAL, CLAYS, ORES, AND OTHER MINERALS, FOODS, SPICES, DRUGS, ETC.
Claimes use since Feb. 23, 1945.

---

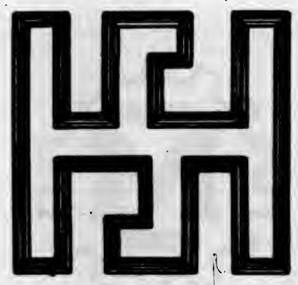
Ser. No. 483,828. ARTHUR MACKMANN, doing business as A. Mackmann Tool & Engineering Company, Chicago, Ill. Filed May 26, 1945.

**AMTEC**

FOR MACHINE TOOL CUTTERS—NAMELY, MILLING CUTTERS.
Claims use since Mar. 14, 1945.

---

Ser. No. 483,857. THE HANNA STOKER COMPANY, Cincinnati, Ohio. Filed May 28, 1945.



FOR PARTS OF ACTUATING STEAM ENGINES AND GEAR BOXES FOR STOKERS—NAMELY, ENGINE FRAME, CRANK CASE COVER, MAIN AND REVERSING VALVE HEAD (REAR), MAIN VALVE HEAD (FRONT), CRANKSHAFT COUNTER WEIGHT, CROSSHEAD, VALVE SLIDE BRACKET, OIL HEAD, REAR CYLINDER HEAD, REVERSE ARM, CLEVIS ARM, GEAR CASE, BEARING COVER, PACKING GLAND, AND CLUTCH COUPLING.
Claims use since January 1930.

Ser. No. 484,122. DOHRMANN HOTEL SUPPLY CO., San Francisco, Calif. Filed June 4, 1945.

BEAR BRAND

No claim is made to the word "Brand" apart from its use in connection with the mark.

FOR BREAD KNIVES, PARING KNIVES, AND CLEAVERS.

Claims use since June 1, 1920.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 475,033. WATER SERVICE LABORATORIES, New York, N. Y. Filed Oct. 6, 1944.

CHEMISTAT

FOR CHEMICAL DIFFUSION FEEDERS FOR USE IN INTRODUCING SMALL QUANTITIES OF LIQUID INTO A MOVING STREAM BY DIFFUSION, FOR CHEMICAL LABORATORY PURPOSES.

Claims use since Dec. 30, 1940.

Ser. No. 478,031. COMMERCIAL METAL PRODUCTS CO., Chicago, Ill. Filed Dec. 29, 1944.

Compco

FOR PHOTOGRAPHIC EQUIPMENT AND ACCESSORIES—NAMELY, CAMERAS, PHOTOGRAPHIC SLIDE AND FILM PROJECTORS, FILM VIEWERS, PHOTOFLOOD REFLECTORS, REELS AND CANS FOR FILM, FILM STORAGE CABINETS, FILM EDITORS, FILM SPLICERS, FILM REWINDERS, PHOTOFLOOD REFLECTOR STANDS, LIGHT REFLECTOR STANDS, PROJECTION SCREEN STANDS, LENSES, FILTERS, AND DEVELOPING TRAYS.

Claims use since January 1936.

Ser. No. 480,995. JAMES MILLER MANUFACTURING COMPANY, INC., Malden, Mass. Filed Mar. 16, 1945.



Applicant is the owner of Reg. No. 385,754.

FOR ELECTRONIC METERS AND MEASURING APPLIANCES—NAMELY, SYNCHROSCOPES, HIGH FREQUENCY WAVE CALIBRATORS, ABSORPTION METERS AND HIGH FREQUENCY WAVE METERS, USED FOR THE MEASUREMENT OF PULSE TRANSMISSION AND HIGH FREQUENCY DETERMINATION IN THE ELECTRONIC FIELDS.

Claims use since May 1940.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 485,836. REXON INC., New York, N. Y. Filed July 14, 1945.

REXOR

FOR PYROPHORIC LIGHTERS FOR CIGARETTES, CIGARS, AND PIPES.

Claims use since Mar. 30, 1944.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 486,588. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed Aug. 1, 1945.

IROQUOIS

FOR PNEUMATIC TIRES AND INNER TUBES FOR PNEUMATIC TIRES.

Claims use since June 5, 1945.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 483,953. BADGER PAPER COMPANY, Los Angeles, Calif. Filed May 30, 1945.

BAPCO

FOR TOILET PAPER, WAXED PAPER, CLEANSING TISSUE, PAPER TOWELS, PAPER NAPKINS, AND SHELF PAPER.

Claims use since Nov. 27, 1945.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 481,277. FRANK ENGLI, New City, N. Y. Filed Mar. 24, 1945.




The name "Frank Engli" is disclaimed apart from the mark.

FOR SUNDAY NEWSPAPER FEATURES.

Claims use since Nov. 19, 1944.



Ser. No. 484,296. ROBERT HARRISON, New York, N. Y. Filed June 8, 1945.

Fem

FOR PICTORIAL PERIODICAL ALSO CONTAINING PRINTED MATTER.

Claims use since May 15, 1945.

Ser. No. 484,988. VINCENT SULLIVAN, doing business as Magazine Enterprises, New York, N. Y. Filed June 23, 1945.

keen teens

FOR MAGAZINE CONTAINING COMIC STRIPS AND SIMILAR FEATURES, PUBLISHED FROM TIME TO TIME.

Claims use since Jan. 10, 1945.

## CLASS 39

### CLOTHING

Ser. No. 476,623. JOE KORET, doing business as Koret of California, San Francisco, Calif. Filed Nov. 18, 1944.

TRIK-COMBO

The first syllable "Trik" is disclaimed apart from the mark as shown.

FOR HALTERS FOR WOMEN.

Claims use since Oct. 2, 1944.

Ser. No. 484,539. MUNSINGWEAR, INC., Minneapolis, Minn. Filed June 14, 1945.

SLUMBER-ALLS

FOR MEN'S AND BOYS' PAJAMAS.

Claims use since Oct. 1, 1938.

Ser. No. 485,126. BLUM'S, INC., Baltimore, Md. Filed June 28, 1945.




The transverse lines in the background of the drawing represent shading.

FOR WOMEN'S DRESSES, COATS, AND SUITS.

Claims use since 1934.

Ser. No. 485,144. GLORIFIED MISS, New York, N. Y. Filed June 28, 1945.




No claim is made to the exclusive right to the use of the word "Miss" except in the association and relation as shown.

FOR MISSES' AND WOMEN'S DRESSES.

Claims use since July 1944.

Ser. No. 485,401. DAVID CRYSTAL INC., New York, N. Y. Filed July 3, 1945.

COTTON CLUB

The word "Cotton" is disclaimed apart from the mark as shown.

FOR LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, SLACKS, COVERALLS, AND JUMPERS.

Claims use since January 1945.

Ser. No. 486,484. GASTONIA FULL FASHIONED HOSIERY MILL, Gastonia, N. C. Filed July 30, 1945.

Wisteria

FOR LADIES' FULL FASHIONED HOSIERY.

Claims use since July 18, 1945.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 474,249. THERMWELL PRODUCTS CO., INC., New York, N. Y. Filed Sept. 15, 1944.

**THERMTEX**

FOR RUGS.
Claims use since January 1941.

---

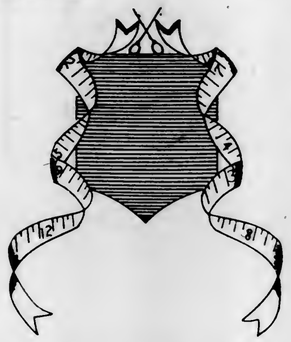
Ser. No. 477,465. EAGLE & PHENIX MILLS, Columbus, Ga. Filed Dec. 12, 1944.

**EAGLETEX**

FOR COTTON PIECE GOODS.
Claims use since August 1939.

---

Ser. No. 486,892. FOREMAN FABRICS INC., New York, N. Y. Filed Aug. 8, 1945.



The lining on the drawing indicates only shading.
FOR PIECE GOODS OF RAYON YARN.
Claims use since February 1940.

---

Ser. No. 486,893. FOREMAN FABRICS INC., New York, N. Y. Filed Aug. 8, 1945.

**FOREMANDENE**

FOR PIECE GOODS OF RAYON YARNS.
Claims use since July 1943.

---

Ser. No. 486,982. CALLAWAY MILLS, La Grange, Ga. Filed Aug. 10, 1945.

**"Calstro"**

FOR TOWELING MADE OF COTTON YARNS.
Claims use since July 12, 1945.

## CLASS 43

### THREAD AND YARN

Ser. No. 485,571. HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed July 9, 1945.

**CALI-CORD**

The word "Cord" is disclaimed apart from the mark shown.
FOR TWISTED PAPER CORD USED FOR CROCHETING.
Claims use since May 24, 1945.

---

## CLASS 45

### BEVERAGES, NONALCOHOLIC

Ser. No. 485,930. UNION BOTTLING COMPANY, Memphis, Tenn. Filed July 17, 1945.

**Grapoil**

FOR NONALCOHOLIC MALTLESS CARBONATED BEVERAGE.
Claims use since about Jan. 15, 1914.

---

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 446,418. HOWARD V. DIRRIM, doing business as Auburn Truck Gardens, Auburn, Ind. Filed Aug. 21, 1941.



FOR FRESH VEGETABLES--NAMELY, LIMA BEANS, CUCUMBERS, SQUASH, TOMATOES, OKRA, ASPARAGUS, SWEET CORN, SPINACH, BEETS, TURNIPS, CARROTS, PARSNIPS, POTATOES, RADISHES, PEAS, AND BEANS; AND FRESH FRUITS—NAMELY, STRAWBERRIES, RASPBERRIES, HUCKLEBERRIES, CHERRIES, PEACHES, PLUMS, MUSHMELONS, WATERMELONS, GOURDS, AND APPLES.
Claims use since July 1, 1941.



Ser. No. 482,321. J. T. GIBBONS, INC., New Orleans, La. Filed Apr. 19, 1945.

**TWO-A-DAY**

FOR SCRATCH FEEDS FOR POULTRY.
Claims use since September 1933.

---

Ser. No. 483,623. KELCO COMPANY, San Diego, Calif. Filed May 21, 1945.

**SHERBELIZER**

FOR ALGIN PRODUCT CONTAINING SUGAR AND DEXTRIN, USED TO STABILIZE SHERBETS AND ICES.
Claims use since about Apr. 13, 1945.

---

Ser. No. 484,090. FAMILY FLOUR INSTITUTE, INC., Nashville, Tenn. Filed June 2, 1945. Under the act of February 20, 1905, as amended June 10, 1938.




FOR SELF-RISING FLOUR.
Claims use since May 7, 1945.

---

Ser. No. 485,982. AMERICAN COFFEE COMPANY, INC., New Orleans, La. Filed July 19, 1945.

**Morning Joy**

Applicant is the owner of Reg. No. 46,629 (renewed).
FOR COFFEE AND TEA.
Claims use since June 1891 on coffee; and since Aug. 9, 1929, on tea.

---

Ser. No. 485,999. LAFOND CHOCOLATIER, New York, N. Y. Filed July 19, 1945.

**Ka-Zoo**

The lining on the drawing is for the color red.
FOR CANDY.
Claims use since June 1945.

Ser. No. 486,160. ORANGE BELT FRUIT DISTRIBUTORS, Pomona, Calif. Filed July 23, 1945.

**ACCORD**

FOR FRESH CITRUS FRUITS.
Claims use since 1939.

---

Ser. No. 486,161. ORANGE BELT FRUIT DISTRIBUTORS, Pomona, Calif. Filed July 23, 1945.

**BLUE ROCK**

FOR FRESH CITRUS FRUIT.
Claims use since 1939.

---

Ser. No. 486,163. ORANGE BELT FRUIT DISTRIBUTORS, Pomona, Calif. Filed July 23, 1945.

**RED ROCK**

FOR FRESH CITRUS FRUIT.
Claims use since 1939.

---

Ser. No. 486,822. ST. LOUIS LABORATORIES, Richmond Heights, Mo. Filed Aug. 6, 1945.

**PRETONE**

FOR COMPOSITION TO BE ADDED TO MILK AND MILK PRODUCTS, INCLUDING BUTTER AND CREAM, FOR REMOVING OFF-ODORS AND OFF-FLAVORS, AND FOR ENHANCING NATURAL FLAVOR.
Claims use since Oct. 15, 1944.

Ser. No. 487,137. WARREN A. FOGARTY, JR., doing business as Capeway Food Co., Boston, Mass. Filed Aug. 17, 1945.

VENITA

FOR SMOKED HERRING.
Claims use since June 15, 1945.

Ser. No. 487,256. HOWARD PRESERVING COMPANY, Miami, Fla. Filed Aug 18, 1945.

AVOCADOL

FOR SALAD AND COOKING OIL.
Claims use since Aug. 3, 1945.

Ser. No. 487,444. SUHR, MARK AND COMPANY, New York, N. Y. Filed Aug. 22, 1945.




The Chinese meaning of the Chinese characters shown is "Shang Yick," and the English translation thereof is "How You".
FOR COOKING AND SEASONING SAUCES.
Claims use since March 1942.

## CLASS 48

## MALT BEVERAGES AND LIQUORS

Ser. No. 463,816. GLUEK BREWING COMPANY, Minneapolis, Minn. Filed Oct. 1, 1943. Under 10-year proviso as to "Gluek's".

Gluek's Stite

A pale light-bodied MALT LIQUOR with a distinguished flavor

The drawing is lined to indicate the color red. The expression "A pale, light-bodied malt liquor with a distinguished flavor" is disclaimed apart from the mark.
FOR PALE, LIGHT-BODIED MALT LIQUOR.
Claims use since Sept. 23, 1943, as shown; and since on or about July 1, 1857, on "Gluek's".

Ser. No. 487,777. FREE STATE BREWERY CORP., Baltimore, Md. Filed Aug. 30, 1945.



The picture is fanciful.
FOR BEER.
Claims use since July 24, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 27, 1945

417,985. FIGURED AND WIRED TEMPERED FLAT GLASS. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn.
Filed March 31, 1943. Serial No. 459,531. PUBLISHED SEPTEMBER 11, 1945. Class 33.

417,986. WOOLEN AND WORSTED PIECE GOODS, JERSEY PIECE GOODS, EIDERDOWN PIECE GOODS, CHINCHILLA PIECE GOODS, AND KNITTED PIECE GOODS HAVING A FLEECY PILE OR SURFACE. CONTINENTAL MILLS, INC., Philadelphia, Pa.
Filed August 25, 1943. Serial No. 462,986. PUBLISHED AUGUST 21, 1945. Class 42.

417,987. GLASS WOOL—NAMELY, FIBRES AND FILAMENTS OF GLASS. CORNING GLASS WORKS, Corning, N. Y.
Filed March 23, 1944. Serial No. 468,560. PUBLISHED SEPTEMBER 18, 1945. Class 1.

417,988. SALAD DRESSING. MILLICENT K. SOLOMON, doing business as Mrs. Boardman's Food Products, Boston, Mass.
Filed March 29, 1944. Serial No. 468,821. PUBLISHED SEPTEMBER 18, 1945. Class 46.

417,989. GRAVITY-OPERATED AND POWERED ELEVATING CONVEYORS SUCH AS ARE USED IN DAIRIES, BOTTLING PLANTS, FREIGHT DEPOTS, MANUFACTURING PLANTS, WAREHOUSES, ETC. NIAGARA FILTER CORPORATION, Buffalo, N. Y.
Filed April 20, 1944. Serial No. 469,506. PUBLISHED SEPTEMBER 18, 1945. Class 23.

417,990. CHINA AND CERAMIC DINNERWARE. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J.
Filed May 5, 1944. Serial No. 469,940. PUBLISHED SEPTEMBER 11, 1945. Class 30.

417,991. BUTTON AND BUTTONHOLE TAPES AND SNAP FASTENER TAPES. JEWEL TOGS, INC., New York, N. Y.
Filed May 10, 1944. Serial No. 470,110. PUBLISHED SEPTEMBER 4, 1945. Class 40.

417,992. MONEY BELTS, MONEY BAGS AND PURSES OF CLOTH AND LEATHER TO BE WORN ABOUT THE NECK, IDENTIFICATION TAG HOLDERS, WALLETS, BILLFOLDS, ETC. A. SCHRETER & SONS, INC., Baltimore, Md.
Filed May 17, 1944. Serial No. 470,356. PUBLISHED SEPTEMBER 18, 1945. Class 3.

417,993. DRESS SHIELDS AND ARMHOLE REINFORCEMENT PATCHES FOR INSERTION IN GARMENTS. LILLIAN WEISS, New York, N. Y.
Filed May 20, 1944. Serial No. 470,472. PUBLISHED AUGUST 21, 1945. Class 40.

417,994. PIECE GOODS OF RAYON, COTTON, WOOL, SILK, AND MIXTURES THEREOF. RELIABLE TEXTILE CO., INC. New York, N. Y.
Filed May 26, 1944. Serial No. 470,679. PUBLISHED AUGUST 21, 1945. Class 42.

417,995. TEXTILE FABRICS MADE OF SILK, RAYON, WOOL, COTTON, LINEN, AND COMBINATIONS THEREOF. GOLDMAN-ROSSMAN CORPORATION, New York, N. Y.
Filed June 8, 1944. Serial No. 471,032. PUBLISHED AUGUST 21, 1945. Class 42.

417,996. BASEBALL GAME PLAYED WITH CARDS. MAXIMILIAN C. MEYER, Brooklyn, N. Y.
Filed July 26, 1944. Serial No. 472,647. PUBLISHED SEPTEMBER 18, 1945. Class 22.

417,997. MAGNETIC TAPE AND WIRE RECORDERS AND REPRODUCERS EMPLOYING ELECTRONIC AMPLIFYING MEANS. FRANK RIEBER, INC., Los Angeles, Calif.
Filed July 29, 1944. Serial No. 472,752. PUBLISHED SEPTEMBER 11, 1945. Class 21.

417,998. WOOLEN PIECE GOODS. ANGLO FABRICS COMPANY, New York, N. Y.
Filed September 20, 1944. Serial No. 474,391. PUBLISHED AUGUST 21, 1945. Class 42.

417,999. UNTREATED TEXTILE FABRIC POLISHING CLOTHS. CALLAWAY MILLS, La Grange, Ga.
Filed September 25, 1944. Serial No. 474,573. PUBLISHED SEPTEMBER 4, 1945. Class 42.

418,000. PIECE GOODS OF COTTON AND OF COTTON AND RAYON. CALLAWAY MILLS, La Grange, Ga.
Filed September 25, 1944. Serial No. 474,578. PUBLISHED AUGUST 28, 1945. Class 42.

418,001. APPARATUS FOR HOLDING ARTICLES OR LAYERS OF ARTICLES CAPABLE OF BEING STACKED, SUCH AS MACHINE OR OTHER COMMERCIAL PARTS, TRAYS, DISHES, CUPS, PLATES, SAUCERS, GLASSES, OR OTHER ARTICLES, ETC. WILLIAM J. GIBBS, doing business as Lowerator Manufacturing Co., Brooklyn, N. Y., assignor to American Machine & Foundry Company, Brooklyn, N. Y., a corporation of New Jersey
Filed October 11, 1944. Serial No. 475,205. PUBLISHED SEPTEMBER 11, 1945. Class 23.

418,002. KNITTED, NETTED, EMBROIDERED AND TWIST LACES AND NET USED FOR MAKING DRESSES AND EDGING GARMENTS AND UNDERWEAR. A. C. GILL, LIMITED, Nottingham, England.
Filed October 19, 1944. Serial No. 475,493. PUBLISHED SEPTEMBER 11, 1945. Class 42.

418,003. INSTRUMENT FOR THE TREATMENT OF SINUS TROUBLE, ACTUATED BY THE USER'S EFFORTS TO INHALE THROUGH IT BY NOSE OR MOUTH. ELISHA W. PAXTON, doing business as Vakaid, St. Louis, Mo.
Filed November 23, 1944. Serial No. 476,817. PUBLISHED SEPTEMBER 18, 1945. Class 44.

418,004. FROZEN FOODS—NAMELY, VEGETABLES, FRUITS, CRAB MEAT, FISH, POULTRY, AND ICE CREAM; FROZEN COOKED FOODS—NAMELY, BAKED BEANS, CHOP SUEY, CHOW MEIN, COD FISH CAKES, CORN BEEF HASH, CRAB MEAT, CREAMED SALMON, CREAMED TUNA, AND SHRIMP. NORTH AMERICAN FOODS INCORPORATED, Boston, Mass.
Filed December 1, 1944. Serial No. 477,114. PUBLISHED SEPTEMBER 18, 1945. Class 46.

418,005. FRESH CITRUS FRUITS. EXETER ORCHARDS ASSOCIATION, Exeter, Calif.
Filed January 29, 1945. Serial No. 479,116. PUBLISHED AUGUST 14, 1945. Class 46.

418,006. SHOULDER STRAPS FOR UNDERGARMENTS. HARRY DIAMOND, New York, N. Y.
Filed February 1, 1945. Serial No. 479,280. PUBLISHED AUGUST 14, 1945. Class 40.

418,007. STOCKING REINFORCEMENTS FOR ATTACHMENT TO THE GARTER WELTS OF THE STOCKINGS FOR THE ACCOMMODATION OF GARTER CLIPS. MAX KATZENSTEIN AND GERTRUDE KATZENSTEIN, New York, N. Y.
Filed February 3, 1945. Serial No. 479,389. PUBLISHED AUGUST 14, 1945. Class 40.

418,008. ELECTRICAL RESISTANCE OR SEMI-CONDUCTING MATERIAL WHICH COMPRISES ANTI-CORONA OR SEMI-CONDUCTING MATERIALS, ETC. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed February 12, 1945. Serial No. 479,709. PUBLISHED SEPTEMBER 11, 1945. Class 21.

418,009. PLIERS, NIPPERS, TWEEZERS, JEWEL SETTERS, CLAMPS FOR HOLDING WATCH PARTS, DRILLS, CUTTING AND ENGRAVING TOOLS, FILES, SAWS, AND CHISELS. HAMMEL, RIGLANDER & Co. INC., New York, N. Y.
Filed February 16, 1945. Serial No. 479,872. PUBLISHED JUNE 5, 1945. Class 23.

418,010. ELECTRIC ROTARY TAP SWITCHES, ELECTRIC RECTIFIERS, ELECTRIC CONVERSION UNITS FOR ARC LAMPS, AND ELECTRIC FENCE CHARGING CONTROLLERS. KNEISLEY ELECTRIC COMPANY, Toledo, Ohio.
Filed February 21, 1945. Serial No. 480,072. PUBLISHED SEPTEMBER 11, 1945. Class 21.

418,011. VACUUM BOTTLES AND HEAT-INSULATED RECEPTACLES—NAMELY, PORTABLE HEAT-INSULATED FOOD AND BEVERAGE CONTAINERS OF SUBSTANTIALLY BOTTLE OR JUG FORM, INCLUDING AN INNER FRANGIBLE CONTAINER AND AN OUTER PROTECTIVE JACKET HEAT AND/OR SHOCK-INSULATED FROM THE FRANGIBLE CONTAINER. ALADDIN INDUSTRIES, INCORPORATED, Alexandria, Ind., and Chicago, Ill.
Filed February 23, 1945. Serial No. 480,127. PUBLISHED SEPTEMBER 18, 1945. Class 2.

418,012. ROTARY CUTTING TOOLS—NAMELY, TOOLS FOR DRILLING, REAMING, COUNTERSINKING, CHAMFERING AND FORMING OR MODIFYING APERTURES IN VARIOUS MATERIALS. FRANK HOFBAUER, doing business as Mohawk Tool Company, Detroit and Hazel Park, Mich.
Filed February 26, 1945. Serial No. 480,236. PUBLISHED SEPTEMBER 11, 1945. Class 23.

418,013. TOY BOATS, TOY AUTOMOBILES, CHILDREN'S TOY TEA SETS, AND TOY TABLEWARE. BANNER PLASTICS CO., New York, N. Y.
Filed February 15, 1945. Serial No. 480,364. PUBLISHED SEPTEMBER 18, 1945. Class 22.

418,014. CANNED SOUPS—NAMELY, VEGETABLE, TOMATO, PEA, ASPARAGUS, CHICKEN NOODLE AND MUSHROOM; DEHYDRATED SOUP MIXES; CANNED ALIMENTARY PASTE PRODUCTS, ETC. SCHUCKL & Co., INC., also doing business as Sunnyvale Packing Co., Sunnyvale, Calif.
Filed March 2, 1945. Serial No. 480,427. PUBLISHED APRIL 24, 1945. Class 46.

418,015. CLIPS, PINS, RINGS, BRACELETS, AND EARRINGS. EISENBERG JEWELRY, INC., Chicago, Ill.
Filed March 7, 1945. Serial No. 480,567. PUBLISHED SEPTEMBER 18, 1945. Class 28.

418,016. PNEUMATIC RUBBER AND RUBBER AND FABRIC TIRES AND INNER TUBES FOR AUTOMOBILES AND TRACTORS, ETC. OAKES & Co., also doing business as Tru-Test, Chicago, Ill.
Filed March 7, 1945. Serial No. 480,618. PUBLISHED SEPTEMBER 18, 1945. Class 35.

418,017. APPARATUS FOR APPLYING AND DISPENSING LUBRICANTS—NAMELY, GREASE GUNS, OIL GUNS, LUBRICANT RECEIVING FITTINGS, LUBRICANT COMPRESSORS, AND PARTS THEREOF. STEWART-WARNER CORPORATION, Chicago, Ill.
Filed March 23, 1945. Serial No. 481,252. PUBLISHED JUNE 5, 1945. Class 23.

418,018. MULTIPLE DISC MANIPULABLE CALCULATORS FOR DETERMINING THE QUALITY TO ORDER AND THE LEVEL OF STOCK AT WHICH ADDITIONAL ORDERS SHOULD BE PLACED WHEN ORDERING GOODS FOR STOCKROOMS. RICHARD HENRY WILSON, Maplewood, N. J.
Filed March 31, 1945. Serial No. 481,597. PUBLISHED SEPTEMBER 18, 1945. Class 26.

418,019. HAIR PINS. DOLLY MADISON HAIR PIN CORP., New York, N. Y.
Filed April 5, 1945. Serial No. 481,738. PUBLISHED SEPTEMBER 4, 1945. Class 40.

418,020. BOB PINS. ROYAL HAIR PIN CORPORATION, New York, N. Y.
Filed April 5, 1945. Serial No. 481,757. PUBLISHED SEPTEMBER 4, 1945. Class 40.

418,021. WRIST WATCH STRAPS MADE OF PLASTIC. PLA-SAFE PLASTICS CORPORATION, Buffalo, N. Y.
Filed April 6, 1945. Serial No. 481,799. PUBLISHED SEPTEMBER 4, 1945. Class 40.

418,022. SHOE AND BOOT LACES. G. W. UNDERHILL, doing business as G. W. Underhill & Co., Kansas City, Mo.
Filed April 9, 1945. Serial No. 481,928. PUBLISHED AUGUST 28, 1945. Class 40.

418,023. DOPED BIAS TAPE; DOPED NARROW BANDINGS AND STRIPS; AND OTHER DOPED TAPE IN THE FORM OF YARDAGE FOR USE IN THE MANUFACTURE OF AIRPLANES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Field April 13, 1945. Serial No. 482,122. PUBLISHED SEPTEMBER 4, 1945. Class 40.

418,024. BUTTONS, CLIPS AND CLASPS FOR THE HAIR AND FOR GARMENTS, AND GARMENT BUCKLES ALL MADE OF NON-PRECIOUS METALS AND PLASTICS, AND FOR GOODS STAMPED FOR ART NEEDLEWORK. JANE ALEXANDER, Valley Stream, N. Y.
Filed April 16, 1945. Serial No. 482,192. PUBLISHED AUGUST 21, 1945. Class 40.

418,025. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, WOOL, WORSTED, SILK, ETC. JANE ALEXANDER, Valley Stream, N. Y.
Filed April 17, 1945. Serial No. 482,234. PUBLISHED AUGUST 28, 1945. Class 42.

418,026. HAT AND MILLINERY BRAIDS. HENRY POLLAK, INC., New York, N. Y.
Filed April 20, 1945. Serial No. 482,393. PUBLISHED SEPTEMBER 11, 1945. Class 40.

418,027. PIECE GOODS OF RAYON, COTTON, AND RAYON AND COTTON MIXTURES. TRAUB, LYONS, OPPENHEIM, INC., New York, N. Y.
Filed April 25, 1945. Serial No. 482,599. PUBLISHED SEPTEMBER 18, 1945. Class 42.

418,028. TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON AND A MIXTURE THEREOF. CONCORDIA-GALLIA CORP., New York, N. Y.
Filed April 27, 1945. Serial No. 482,672. PUBLISHED AUGUST 28, 1945. Class 42.

418,029. CURL CLIPS. THE I. LEON COMPANY, Massapequa, N. Y.
Filed April 30, 1945. Serial No. 482,805. PUBLISHED SEPTEMBER 4, 1945. Class 40.



418,030. ORNAMENTAL FIGURES FORMED FROM YARN, CLOTH, PAPER, WOOD AND DECORATIVE MATERIALS TO BE WORN ON CLOTHING. STELLA SHERA, Middletown, Ohio.
Filed April 30, 1945. Serial No. 482,815. PUBLISHED AUGUST 28, 1945. Class 40.

418,031. POWDERED ADMIXTURE FOR CONCRETE CONSISTING OF CALCIUM CHLORIDE AND OTHER INGREDIENTS FOR IMPROVING THE STRENGTH, PLASTICITY, AND DURABILITY OF THE CONCRETE. CHARLES E. WUERPEL, New Rochelle, N. Y.
Filed May 2, 1945. Serial No. 482,911. PUBLISHED SEPTEMBER 18, 1945. Class 12.

418,032. CITRUS PRODUCTS—NAMELY, FRESH CITRUS FRUITS, CANNED CITRUS FRUITS, AND CANNED CITRUS JUICES FOR FOOD PRODUCTS. POLK PACKING ASSOCIATION, Winter Haven, Fla.
Filed May 3, 1945. Serial No. 482,949. PUBLISHED SEPTEMBER 11, 1945. Class 46.

418,033. RAYON PIECE GOODS. ARTHUR S. HEIMAN, INC., New York, N. Y.
Filed May 4, 1945. Serial No. 482,990. PUBLISHED SEPTEMBER 18, 1945. Class 42.

418,034. RAYON PIECE GOODS. ARTHUR S. HEIMAN, INC., New York, N. Y.
Filed May 4, 1945. Serial No. 482,991. PUBLISHED SEPTEMBER 18, 1945. Class 42.

418,035. FRESH CITRUS FRUITS AND FRESH VEGETABLES—NAMELY, TOMATOES. POLIS & HAGAN, Edinburg, Tex.
Filed May 7, 1945. Serial No. 483,082. PUBLISHED AUGUST 28, 1945. Class 46.

418,036. BEDSPREADS, SHEETS, AND PILLOW CASES. SCHINDEL-MCDANIELS CO., INC., New York, N. Y.
Filed May 7, 1945. Serial No. 483,089. PUBLISHED SEPTEMBER 4, 1945. Class 42.

418,037. NEEDLEWORK SAMPLERS. PAULINE M. HELM, Springfield, Mo.
Filed May 8, 1945. Serial No. 483,111. PUBLISHED SEPTEMBER 11, 1945. Class 40.

418,038. PLASTIC COATED TEXTILE FABRICS IN THE PIECE. THE LEONARD COMPANY, New York, N. Y.
Filed May 10, 1945. Serial No. 483,185. PUBLISHED SEPTEMBER 4, 1945. Class 42.

418,039. SMOKING TOBACCO AND CIGARETTES. CANNON & WALLER, INCORPORATED, Toledo, Ohio.
Filed May 12, 1945. Serial No. 483,256. PUBLISHED SEPTEMBER 18, 1945. Class 17.

418,040. OPTICAL GOODS—NAMELY, EYEGLASSES, SUN GLASSES, PARTS AND ACCESSORIES THEREFOR. GEORGE M. CARSON, doing business as Apex Specialty Company, New York, N. Y.
Filed May 12, 1945. Serial No. 483,258. PUBLISHED SEPTEMBER 18, 1945. Class 26.

418,041. WATCHES, CASED AND UNCASED. ALFRED WYLER, New York, N. Y.
Filed May 12, 1945. Serial No. 483,298. PUBLISHED SEPTEMBER 18, 1945. Class 27.

418,042. MEN'S SPORT SHIRTS. FISCH & COMPANY, Los Angeles, Calif.
Filed May 14, 1945. Serial No. 483,311. PUBLISHED SEPTEMBER 18, 1945. Class 39.

418,043. PAPER DESK CALENDARS AND PAPER DESK CALENDAR PADS. AGENCY PAPER COMPANY, New York, N. Y.
Filed May 16, 1945. Serial No. 483,414. PUBLISHED SEPTEMBER 18, 1945. Class 37.

418,044. COMBS. STERLING PLASTICS CO., Union, N. J.
Filed May 17, 1945. Serial No. 483,501. PUBLISHED AUGUST 21, 1945. Class 40.

418,045. WOMEN'S NEGLIGEES, PAJAMAS, AND UNDERWEAR. DOWALIBY, INC., New York, N. Y.
Filed May 21, 1945. Serial No. 483,610. PUBLISHED SEPTEMBER 18, 1945. Class 39.

418,046. STATIONERY, SPECIFICALLY, BOXED WRITING PAPER AND ENVELOPES. CHEERFULETTERS STATIONERY CO., Minneapolis, Minn.
Filed May 28, 1945. Serial No. 483,885. PUBLISHED SEPTEMBER 18, 1945. Class 37.

418,047. HAIR PINS MADE FROM WIRE AND MILD STEEL. SCOLDING LOCKS CORPORATION, Appleton, Wis.
Filed May 31, 1945. Serial No. 484,034. PUBLISHED AUGUST 28, 1945. Class 40.

418,048. PIECE GOODS OF COTTON, RAYON, OR MIXTURES THEREOF. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed June 1, 1945. Serial No. 484,064. PUBLISHED SEPTEMBER 11, 1945. Class 42.

418,049. CANDY. WILLIAM EARL AUMANN, St. Louis, Mo.
Filed June 7, 1945. Serial No. 484,226. PUBLISHED SEPTEMBER 18, 1945. Class 46.

418,050. RAYON FABRICS IN THE PIECE. ROTH FABRICS CORPORATION, New York, N. Y.
Filed June 7, 1945. Serial No. 484,276. PUBLISHED SEPTEMBER 18, 1945. Class 42.

418,051. WOOLENS IN THE PIECE. S. M. STAYMAN & Co., New York, N. Y.
Filed June 8, 1945. Serial No. 484,330. PUBLISHED AUGUST 21, 1945. Class 42.

418,052. HANDPIECE CLEANER AND LUBRICANT, AN OIL-BASE LIQUID. THE DENTAL SPECIALTY MANUFACTURING CO., INC., Denver, Colo.
Filed June 9, 1945. Serial No. 484,340. PUBLISHED SEPTEMBER 11, 1945. Class 15.

418,053. BRASSIÈRES. W. S. MAAS INC., New York, N. Y.
Filed June 13, 1945. Serial No. 484,491. PUBLISHED SEPTEMBER 18, 1945. Class 39.

418,054. OPHTHALMIC LENSES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed June 14, 1945. Serial No. 484,518. PUBLISHED SEPTEMBER 18, 1945. Class 26.

418,055. BEET KNIFE FILING MACHINES, BEET KNIFE STRAIGHTENING MACHINES, AND PRECISE GRINDERS. HENRY DISSTON & SONS, INCORPORATED Philadelphia, Pa.
Filed June 14, 1945. Serial No. 484,521. PUBLISHED SEPTEMBER 11, 1945. Class 23.

418,056. POWER CHAIN SAWS, POWER CHAIN SAW SHARPENING MACHINES, AND PARTS PERTAINING THERETO. HENRY DISSTON & SONS INCORPORATED, Philadelphia, Pa.
Filed June 14, 1945. Serial No. 484,522. PUBLISHED SEPTEMBER 11, 1945. Class 23.

418,057. EMBOSSING PRESSES AND EMBOSSING DIES AND TYPE FOR USE THEREIN. EMBOSOGRAF CORPORATION OF AMERICA, New York, N. Y.
Filed June 18, 1945. Serial No. 484,675. PUBLISHED SEPTEMBER 11, 1945. Class 23.

418,058. CARBOHYDRATE SYRUP FOR INFANT FEEDING. H. W. KINSEY AND SONS, INC., Columbus, Ind.
Filed June 20, 1945. Serial No. 484,787. PUBLISHED SEPTEMBER 18, 1945. Class 46.

418,059. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF. CREST FABRICS CORP., New York, N. Y.
Filed June 21, 1945. Serial No. 484,828. PUBLISHED AUGUST 28, 1945. Class 42.

418,060. SOLUBLE OILS INTENDED FOR USE IN CUTTING, GRINDING, STAMPING, AND SIMILAR MACHINE OPERATIONS, IN HYDRAULIC SYSTEMS, AND IN INDUSTRIAL PLANTS GENERALLY, REQUIRING THE USE OF LUBRICATING AND RUST PREVENTING OILS AND GREASES. OAKITE PRODUCTS, INC., New York, N. Y.
Filed June 23, 1945. Serial No. 484,967. PUBLISHED SEPTEMBER 11, 1945. Class 15.

418,061. DYED FABRICS MADE OF OR CONTAINING ACETATE RAYON IN THE PIECE. JOSEPH BANCROFT & SONS CO., Wilmington, Del.
Filed June 30, 1945. Serial No. 485,257. PUBLISHED AUGUST 28, 1945. Class 42.

418,062. WOOLEN AND WORSTED FABRICS IN THE PIECE. TERHUNE, TERRANCE & WOLFF, INC., New York, N. Y.
Filed July 3, 1945. Serial No. 485,426. PUBLISHED SEPTEMBER 11, 1945. Class 42.

418,063. BLANKETS OF WOOL. THE OHR FELT & BLANKET COMPANY, Piqua, Ohio.
Filed July 11, 1945. Serial No. 485,695. PUBLISHED SEPTEMBER 11, 1945. Class 42.

418,064. WOOLEN AND WORSTED FABRICS IN THE PIECE. TERHUNE, TERRANCE & WOLFF, INC., New York, N. Y.
Filed July 11, 1945. Serial No. 485,704. PUBLISHED SEPTEMBER 11, 1945. Class 42.

**[ACT OF MARCH 19, 1920, SEC. 1 (b)]**

**THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION**

418,065. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) C. H. LEACH COMPANY, Englewood, N. J. Filed Mar. 11, 1944. Serial No. 468,207.

LEACH

FOR HEAT EXCHANGERS IN THE NATURE OF CONDENSERS FOR USE IN THE PETROLEUM AND CHEMICAL FIELDS.
Claims use since Sept. 1, 1922.

418,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWEST BUTTER & EGG COMPANY, Minneapolis, Minn. Filed July 13, 1944. Serial No. 472,212.




FOR BUTTER.
Claims use since May 15, 1944.

418,067. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMART MAID COAT CO. INC., New York, N. Y. Filed Oct. 9, 1944. Serial No. 475,136.

Cheshire
FLEECE

FOR WOOLEN CLOTH CUT INTO GARMENT LENGTHS WHICH IS SOLD FOR USE IN MAKING GIRLS' COATS.
Claims use since August 1943.

418,068. (CLASS 2. RECEPTACLES.) IVERS-LEE COMPANY, Newark, N. J. Filed Oct. 21, 1944. Serial No. 475,572.

MULTI-PAK

FOR MERCHANDISE ENVELOPES FORMED OF "CELLOPHANE" AND "PLIOFILM" OR THE LIKE, WITH OR WITHOUT PAPER COVERS.
Claims use since Oct. 10, 1944.

418,069. (CLASS 19. VEHICLES.) UNITED CONCRETE PIPE CORPORATION, Los Angeles, Calif. Filed Dec. 4, 1944. Serial No. 477,212.




FOR TUNA BOATS.
Claims use since July 12, 1944.

418,070. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Mar. 8, 1945. Serial No. 480,662.

HY-WITE

FOR SOAP, USED FOR LAUNDRY PURPOSES.
Claims use since May 1939.



418,071. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Mar. 27, 1945. Serial No. 481,352.

Carpenter
Glass Sealing "49"

FOR STEEL IN THE FORM OF WIRE, STRIPS, BARS, BILLETS AND SHAPES.
Claims use since Aug. 1, 1944.

418,072. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Mar. 27, 1945. Serial No. 481,353.

Carpenter
Low Expansion "42"

FOR STEEL IN THE FORM OF WIRE, STRIPS, BARS, BILLETS AND SHAPES.
Claims use since Jnne 17, 1944.

418,073. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Mar. 27, 1945. Serial No. 481,355.

Carpenter
Low Expansion "49"

FOR STEEL IN THE FORM OF WIRE, STRIPS, BARS, BILLETS AND SHAPES.
Claims use since Oct. 6, 1944.

418,074. (CLASS 19. VEHICLES.) HERBERT L. FLAKE, Houston, Tex. Filed Apr. 2, 1945. Serial No. 481,622.



The linings in the drawing indicate the colors blue, red and yellow.
FOR BICYCLES.
Claims use since Apr. 15, 1937.

418,075. (CLASS 39. CLOTHING.) STELZER BROS. INC., New York, N. Y. Filed Apr. 21, 1945. Serial No. 482,447.

Harriet Lane

FOR BELTS FOR OUTER WEAR, AND WOMEN'S, AND CHILDREN'S DRESSES, COATS, AND SUITS.
Claims use since September 1943.

418,076. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PARFAIT, INCORPORATED, Chicago, Ill. Filed Apr. 27, 1945. Serial No. 482,698.




FOR SOAP.
Claims use since Mar. 17, 1939.

418,077. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SPIEGEL, INC., Chicago, Ill. Filed Apr. 27, 1945. Serial No. 482,710.

Churchill

FOR SUITCASES, BRIEF CASES, OVERNIGHT BAGS, AND FITTED TRAVELING CASES.
Claims use since September 1935.

418,078. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN MCQUADE & CO., INC., New York, N. Y. Filed July 24, 1945. Serial No. 486,210.

**DE LUXE**

FOR READY MIXED PAINTS AND VARNISHES.
Claims use since 1913.

418,079. (CLASS 32. FURNITURE AND UPHOLSTERY.) ABEL PHOTO SUPPLY, St. Louis, Mo. Filed Aug. 3, 1945. Serial No. 486,641.

*Arlington*

FOR SADDLE AND NATURAL LEATHER PICTURE FRAMES.
Claims use since July 7, 1944.

## TRADE-MARK REGISTRATIONS RENEWED

27,727. **"J. HARRIS & SONS LIMITED" ETC.** THREADS OF ALL KINDS. Registered Feb. 4, 1896. JONATHAN HARRIS & SONS LTD., Cockermouth, England. Re-renewed Feb. 4, 1946, to Henry Campbell & Co. Limited, Belfast, Northern Ireland, a company of Northern Ireland. Class 43.

45,141. **DR. HOFFMAN'S RED DROPS.** INTERNAL REMEDY FOR COLIC AND CHOLERA. Registered Aug. 8, 1905. FRANK TRAUDT. Re-renewed Aug. 8, 1945, to Richard T. Dunn, doing business as Dr. Hoffmann Medicine Co., St. Louis, Mo. Class 6.

45,264. **CAPUDINE.** CURE FOR HEADACHES, COLDS, AND INDIGESTION. Registered Aug. 8, 1905. CAPUDINE CHEMICAL COMPANY, Raleigh, N. C., a corporation of North Carolina. Re-renewed Aug. 8, 1945. Class 6.

45,465. **THE NEW SOUTH.** SYRUP, MOLASSES, AND SORGHUM. Registered Aug. 22, 1905. NEW ORLEANS COFFEE CO. LTD., New Orleans, La. Re-renewed Aug. 22, 1945, to Penick & Ford, Ltd. Incorporated, New York N. Y. a corporation of Delaware. Class 46.

45,466. **REPRESENTATION OF TWO NEGRO BOYS AT A CAN.** SYRUP, MOLASSES, AND SORGHUM. Registered Aug. 22, 1905. NEW ORLEANS COFFEE CO. LTD., New Orleans, La. Re-renewed Aug. 22, 1945, to Penick & Ford, Ltd. Incorporated, New York, N. Y. a corporation of Delaware. Class 46.

45,467. **REPRESENTATION OF TWO NEGRO BOYS AT A BARREL.** SYRUP, MOLASSES, AND SORGHUM. Registered Aug. 22 1905. NEW ORLEANS COFFEE CO. LTD., New Orleans, La. Re-renewed Aug. 22, 1945, to Penick & Ford, Ltd. Incorporated, New York N. Y. a corporation of Delaware. Class 46.

45,468. **BELLE ROSE.** SYRUPS, MOLASSES, AND SORGHUMS. Registered Aug. 22, 1905. NEW ORLEANS COFFEE CO. LTD., New Orleans, La. Re-renewed Aug. 22, 1945, to Penick & Ford, Ltd. Incorporated, New York, N. Y. a corporation of Delaware. Class 46.

46,070. **£ CO (MONOGRAM).** HAIR-PINS. Registered Sept. 5, 1905. THE STERLING PIN CO., Huntington and Derby, Conn. Re-renewed Sept. 5, 1945, to The Star Pin Company, Shelton, Conn., a corporation of Connecticut. Class 40.

46,250. **STANDARD.** INSULATING COMPOUNDS. Registered Sept. 12 1905. STANDARD UNDERGROUND CABLE COMPANY, Pittsburgh, Pa. Re-renewed Sept. 12, 1945, to General Cable Corporation, New York, N. Y. a corporation of New Jersey. Class 21.

46,993. **HOWARD.** PIANOS. Registered Oct. 17, 1905. THE BALDWIN COMPANY, Cincinnati, Ohio, a corporation of Ohio. Re-renewed Oct. 17, 1945. Class 36.

47,072. **HAMILTON.** PIANOS. Registered Oct. 24, 1905. HAMILTON ORGAN COMPANY, Chicago Heights, Ill. Re-renewed Oct. 24, 1945, to The Baldwin Company, Cincinnati, Ohio, a corporation of Ohio. Class 36.

47,529. **"SWEET HOME" AND DRAWING.** MOLASSES, SYRUPS, AND SORGHUMS. Registered Nov. 7, 1905. NEW ORLEANS COFFEE CO. LTD., New Orleans, La. Re-renewed Nov. 7, 1945, to Penick & Ford, Ltd. Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

48,267. **REPRESENTATION OF A MUSTARD POT, ETC.** MUSTARD AND SPICES. Registered Dec. 19 1905. STICKNEY & POOR SPICE COMPANY, Boston, Mass. Re-renewed Dec. 19, 1945, to Stickney & Poor Spice Co., Charlestown, Boston, Mass., a corporation of Massachusetts. Class 46.

48,457. **"DAIRY" AND DRAWING.** CURED MEATS. Registered Jan. 2, 1906. GEORGE A. HORMEL & CO. Re-renewed Jan. 2, 1946, to Geo. A. Hormel & Company, Austin, Minn., a corporation of Delaware. Class 46.

48,471. **COALINE.** LAUNDRY SOAP AND TOILET SOAP MADE UP IN BARS AND CAKES. Registered Jan. 2, 1906. FRANK GAINS BURKE. Re-renewed Jan. 2, 1946, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York. Class 4.

48,510. **"VICI KID" AND DRAWING.** LEATHER FOR THE UPPERS OF SHOES. Registered Jan. 2, 1906. ROBERT H. FOERDERER, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Jan. 2, 1946. Class 1.

48,728. **EICHLER.** BEER. Registered Jan. 9, 1906. THE JOHN EICHLER BREWING COMPANY, New York, N. Y., a corporation of New York. Re-renewed Jan. 9, 1946. Class 48.

48,829. **VICI.** LEATHER FOR THE UPPERS OF SHOES. Registered Jan. 16, 1906. ROBERT H. FOERDERER, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Jan. 16, 1946. Class 1.

48,985. **CHALLENGE.** SEEDS AND PREPARED MIXTURES OF SEEDS AS FOOD FOR BIRDS AND FOWLS. Registered Jan. 16, 1906. E. R. DURKEE & CO., New York, N. Y. Re-renewed Jan. 16, 1946, to The Glidden Company, Cleveland, Ohio a corporation of Ohio. Class 46.

48,986. **CHALLENGE.** SPICES AND MUSTARD. Registered Jan. 16, 1906. E. R. DURKEE & CO., New York, N. Y. Re-renewed Jan. 16, 1946, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 46.

49,002. **OLD JUDGE.** COFFEE. Registered Jan. 16, 1906. MEYER BROTHERS COFFEE AND SPICE COMPANY. Re-renewed Jan. 16, 1946, to David G. Evans Coffee Company, St. Louis, Mo., a corporation of Missouri. Class 46.

49,050. **MONARCH.** OUTER SHIRTS AND DRESS SHIRTS. Registered Jan. 23, 1906. CLUETT, PEABODY & Co. Re-renewed Jan. 23, 1946, to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York. Class 39.



49,057. **"FRENCH MARKET" AND DRAWING.** ROASTED AND GROUND COFFEE. Registered Jan. 23, 1906. NEW ORLEANS COFFEE CO. LTD. Re-renewed Jan. 23, 1946, to American Coffee Company, Inc., New Orleans, La., a corporation of Louisiana. Class 46.

49,122. **DRAUGHTING.** LEAD-PENCILS. Registered Jan. 23, 1906. EAGLE PENCIL COMPANY. Re-renewed Jan. 23, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

49,274. **GALENA.** LUBRICATING-OILS. Registered Jan. 30, 1906. GALENA-SIGNAL OIL COMPANY, Franklin, Pa. Re-renewed Jan. 30, 1946, to Valvoline Oil Company, Cincinnati, Ohio, and Edgewater, N. J., a corporation of New Jersey. Class 15.

49,319. **PRINCETON.** COTTON PIECE GOODS. Registered Jan. 30, 1906. TREMONT & SUFFOLK MILLS, Lowell, Mass. Re-renewed Jan. 30, 1946, to Nashua Manufacturing Company, Boston, Mass., a corporation of New Hampshire. Class 42.

49,354. **"F" AND DESIGN.** STEAM-VALVES AND WATER-VALVES. Registered Jan. 30, 1906. THE FAIRBANKS CO., New York, N. Y., a corporation of New Jersey. Re-renewed Jan. 30, 1946. Class 13.

197,756. **"SUPEX" ETC. AND DRAWING.** TEA, COFFEE, SPICES (FOR FOOD), CHOCOLATE, AND SWEETMEATS. Registered Apr. 21, 1925. SUPEX LIMITED, London, England, a corporation of Great Britain. Renewed Apr. 21, 1945. Class 46.

199,787. **TRINOX.** SPECIAL STEEL, ROLLED IN FLAT BARS, ROUND BARS, AND PLATES FOR USE IN MAKING JAIL CELLS. Registered June 16, 1925. SOUTHERN STEEL COMPANY. Renewed June 16, 1945, to Southern Prison Company, San Antonio, Tex., a corporation of Texas. Class 14.

200,865. **DINNER TIME.** CANNED FISH, FOOD-FLAVORING EXTRACTS, CONDIMENTS—NAMELY, MUSTARD, PEPPER, PAPRIKA, RELISH COMPRISING SWEET OR SOUR PICKLES, ONIONS, AND TOMATOES AND GINGER; ALIMENTARY PASTES, CANNED VEGETABLES, CANNED FRUITS, TEA, COFFEE, EVAPORATED MILK, PEANUT BUTTER, APPLE BUTTER, SPICES, COCOA, SALAD DRESSING, VINEGAR, PRESERVED FRUITS, MINCEMEAT, PICKLES, TAPIOCA, CATCHUP, HONEY, CHILI SAUCE, DRIED FRUITS, AND CEREALS—NAMELY, RICE AND BARLEY. Regisered July 14, 1925. MORPETT GROCER COMPANY, Flint, Mich., a corporation of Michigan. Renewed July 14, 1945. Class 46.

200,879. **U-WANTHE BEST.** DRESSED POULTRY AND EGGS. Registered July 14, 1925. THE PETER FOX SONS CO. Renewed July 14, 1945, to The Peter Fox Sons Company, Chicago, Ill., a corporation of Illinois. Class 46.

201,613. **ST. DENIS.** FACE POWDERS, FACE CREAMS, TOILET WATERS, ROUGES, PERFUMES, HAIR TONICS, HAIR OILS, DENTIFRICES, TOOTH POWDERS, NAIL POLISHES, DEODORIZING PREPARATIONS, BATH SALTS, SMELLING SALTS, AND SACHETS. Registered Aug. 4, 1925. PARFUMERIE ST. DENIS, New York, N. Y. Renewed Aug. 4, 1945, to Shulton, Inc., Hoboken, N. J., a corporation of New Jersey. Class 6.

201,656. **"VITAGRAPH" ETC. AND DRAWING.** MOTION PICTURES AND MOTION-PICTURE FILMS. Registered Aug. 4, 1925. THE VITAGRAPH COMPANY OF AMERICA INC., Brooklyn, N. Y. Renewed Aug. 4, 1945, to Warner Bros. Pictures Distributing Corporation, New York, N. Y., a corporation of New York. Class 26.

201,695. **DUO-SITE.** OPHTHALMIC LENSES AND BLANKS. Registered Aug. 4, 1925. OPTICAL SERVICE CORPORATION. Renewed Aug. 4, 1945, to Soft-Lite Lens Company, Inc., New York, N. Y., a corporation of New York. Class 26.

201,791. **SIGNAPHORE.** VEHICLE TRAFFIC ELECTRICALLY-OPERATED SIGNALS. Registered Aug. 4, 1925. THE SIGNAPHORE COMPANY, Fort Wayne, Ind. Renewed Aug. 4, 1945, to Automatic Signal Corporation, East Norwalk, Conn., a corporation of Delaware. Class 21.

201,794. **REPRESENTATION OF TWO TRIANGLES AND A RECTANGLE.** PNEUMATIC TIRES COMPOSED OF RUBBER AND FIBROUS MATERIAL. Registered Aug. 4, 1925. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed Aug. 4, 1945. Class 35.

201,881. **DE-LUXE.** DRESSED POULTRY AND EGGS. Registered Aug. 11, 1925. THE PETER FOX SONS CO. Renewed Aug. 11, 1945, to The Peter Fox Sons Company, Chicago, Ill., a corporation of Illinois. Class 46.

202,466. **BLUTIP.** KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS—TO WIT, CAKE TURNERS, SPATULAS, POTATO MASHERS, KNIVES, ICE PICKS, KITCHEN FORKS, APPLE CORERS, CAN OPENERS, KITCHEN TROWELS, EGG BEATERS, AND VARIOUS TYPES OF KITCHEN SPOONS AND LADLES INCLUDING STRAINER SPOONS, BATTER SPOONS, BASTING SPOONS, STIRRING SPOONS, MIXING SPOONS, MEASURING SPOONS, AND PLAIN AND STRAINER LADLES. Registered August 25, 1925. THE A. & J. MANUFACTURING CO., Binghamton, N. Y. Renewed Aug. 25, 1945, to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Class 23.

202,467. **REPRESENTATION OF A HANDLE WITH THE TIP COLORED BLUE.** KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS—TO WIT, CAKE TURNERS, SPATULAS, POTATO MASHERS, KNIVES, ICE PICKS, KITCHEN FORKS, APPLE CORERS, CAN OPENERS, KITCHEN TROWELS, EGG BEATERS, AND VARIOUS TYPES OF KITCHEN SPOONS AND LADLES INCLUDING STRAINER SPOONS, BATTER SPOONS, BASTING SPOONS, STIRRING SPOONS, MIXING SPOONS, MEASURING SPOONS, AND PLAIN AND STRAINER LADLES. Registered Aug. 25, 1925. THE A. & J. MANUFACTURING CO., Binghamton, N. Y. Renewed Aug. 25, 1945, to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Class 23.

202,660. **"KRAFT K CHEESE" AND DESIGN.** CHEESE. Registered Sept. 1 1925. KRAFT CHEESE COMPANY. Renewed Sept. 1, 1945, to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware. Class 46.

202,709. **REPRESENTATION OF A PLURALITY OF ALTERNATE RED AND YELLOW STRIPES AROUND MIDDLE PORTION OF TRUNK WITH MAROON BINDING FOR EDGES.** WARDROBE TRUNKS, DRESS TRUNKS, CABIN OR STEAMER TRUNKS; SHOE, SHIRT-WAIST AND HAT TRUNKS; HAT TRUNKS, SHOE OR BOOT TRUNKS, AND HAND LUGGAGE, SUCH AS VISITING CASES, PORTABLE WARDROBE TRUNKS AND TAXI TRUNKS. Registered Sept. 1, 1925. THE OSHKOSH TRUNK COMPANY. Renewed Sept. 1, 1945, to Oshkosh Trunks and Luggage, Oshkosh, Wis., a corporation of Wisconsin. Class 3.

202,710. **REPRESENTATION OF A PLURALITY OF ALTERNATE RED AND YELLOW STRIPES AROUND MIDDLE PORTION OF TRUNK.** WARDROBE TRUNKS, DRESS TRUNKS, CABIN OR STEAMER TRUNKS; SHOE, SHIRT-WAIST AND HAT TRUNKS; HAT TRUNKS, SHOE OR BOOT TRUNKS, AND HAND LUGGAGE, SUCH AS VISITING CASES, PORTABLE WARDROBE TRUNKS, AND TAXI WARDROBES. Registered Sept. 1, 1925. THE OSHKOSH TRUNK COMPANY. Renewed Sept. 1, 1945, to Oshkosh Trunks and Luggage, Oshkosh, Wis., a corporation of Wisconsin. Class 3.

202,760. **EUGÈNEOL.** SACHETS OR DEVICES FOR USE IN PERMANENT HAIR WAVING AND CONTAINING HAIR-TREATING COMPOUNDS OR MATERIALS. Registered Sept. 1, 1925. EUGÈNE LTD., New York, N. Y. Renewed Sept. 1, 1945, to Eugene, Ltd., Brooklyn, N. Y., a corporation of New York. Class 40.

202,801. **DOUBLE X.** COMPOSITION FOR USE AS A FLOOR CLEANER. Registered Sept. 1, 1925. SCHALK CHEMICAL COMPANY, Los Angeles, Calif., a corporation of California. Renewed Sept. 1, 1945. Class 4.

202,886. **WOODCREST.** BUTTER AND CHEESE. Registered Sept. 8, 1925. P. E. SHARPLESS CO., Philadelphia, Pa. Renewed Sept. 8, 1945, to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware. Class 46.

203,006. **THE GOAL.** MEN'S SUITS, TOPCOATS, CAPS, SWEATERS, HATS, AND SPORT SHIRTS. Registered Sept. 8, 1925. THE BURKHARDT BROS. CO., Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 8, 1945. Class 39.

203,746. **SOILMEEDA.** FERTILIZERS. Registered Sept. 22, 1925. CARL H. TUPPACK, doing business as The 20th Century Fertilizing Co., New York, N. Y. Renewed Sept. 22, 1945, to Carl H. Tuppack, doing business as The 20th Century Fertilizing Co., Middle Village, L. I., N. Y. Class 10.

203,877. **UNDERSET.** CORSETS, BRASSIÈRES, GIRDLES, BANDEAUX, CORSET WAISTS, CAMISOLES, COMBINATIONS OF BRASSIÈRES AND GIRDLES, BRASSIÈRES AND CORSETS, BRASSIÈRES AND STEP-INS, BRASSIÈRES AND BLOOMERS, BRASSIÈRES AND PETTICOATS; COMBINATIONS OF BRASSIÈRES, GIRDLES AND BLOOMERS, BRASSIÈRES, CORSETS, AND PETTICOATS, BRASSIÈRES, GIRDLES, AND DRAWERS, BRASSIÈRES, GIRDLES, AND STEP-INS; AND CERTAIN OTHER NAMED ARTICLES OF CLOTHING. Registered Sept. 29, 1925. AMERICAN LADY CORSET CO., Detroit, Mich., a corporation of Michigan. Renewed Sept. 29, 1945. Class 39.

204,055. **PINEMINT.** FRUIT PRESERVES. Registered Oct. 6, 1925. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed Oct. 6, 1945. Class 46.

204,131. **"SPIDER WEB" ETC. AND DRAWING.** MACHINE BELTING HAVING LEATHER AND CANVAS PLIES. Registered Oct. 6, 1925. J. A. WEBB BELTING COMPANY, INC., Buffalo, N. Y., a corporation of New York. Renewed Oct. 6, 1945. Class 35.

204,318. **"D L" AND DRAWING.** BOTTLES CONTAINING A COMPOUND OF MEDICINAL OIL AND AGAR-AGAR. Registered Oct. 13, 1925. DENNELL LABORATORIES, INC., Los Angeles, Calif. Renewed Oct. 13, 1945, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Class 6.

204,936. **FLUFF.** SHAMPOO. Registered Oct. 27, 1925. HARRY W. PAPE, doing business as The Fluff Co., Cincinnati, Ohio. Renewed Oct. 27, 1945, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Delaware. Class 6.

204,938. **"FREEZONE" ETC. AND DRAWING.** EXTERNAL REMEDY FOR TREATMENT OF THE FEET. Registered Oct. 27, 1925. EDWARD WESLEY & COMPANY, Cincinnati, Ohio. Renewed Oct. 27, 1945, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Delaware. Class 6.

205,192. **RABBSTRIPE.** WRAPPING PAPER. Registered Nov. 3, 1925. NEKOOSA-EDWARDS PAPER COMPANY, Port Edwards, Wis., a corporation of Wisconsin. Renewed Nov. 3, 1945. Class 37.

205,325. **BLUTIP.** KITCHEN BRUSHES—NAMELY, VEGETABLE BRUSHES, SINK BRUSHES, SCOURING BRUSHES, AND GRIDDLE GREASERS. Registered Nov. 3, 1925. THE A. & J. MANUFACTURING CO., Binghamton, N. Y. Renewed Nov. 3, 1945, to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Class 29.

205,326. **REPRESENTATION OF HANDLE TIP COLORED BLUE.** KITCHEN BRUSHES—NAMELY, VEGETABLE BRUSHES, SINK BRUSHES, SCOURING BRUSHES, AND GRIDDLE GREASERS. Registered Nov. 3, 1925. THE A. & J. MANUFACTURING CO., Binghamton, N. Y. Renewed Nov. 3, 1945, to Ekco Products Company, Chicago, Ill., a corporation of Illinois. Class 29.

205,704. **"VELVET" ETC. AND DESIGN.** CANDY. Registered Nov. 17, 1925. H. L. HILDRETH COMPANY, Boston, Mass., a corporation of Maine. Renewed Nov. 17, 1945. Class 46.

206,159. **CHEN ELLA.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered Nov. 24, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Nov. 24, 1945. Class 42.

206,252. **REPRESENTATION OF A BUFFALO.** QUANTITY METERS FOR MEASURING WATER, OIL, GASOLINE, AND OTHER LIQUIDS. Registered Nov. 24, 1925. BUFFALO METER COMPANY, Buffalo, N. Y., a corporation of New York. Renewed Nov. 24, 1945. Class 26.

206,417. **"BUSCH MILLS A 1" AND DRAWING.** COFFEE, TEA, RICE, AND FOOD-FLAVORING EXTRACTS. Registered Dec. 1, 1925. H. BUSCH & CO. INC. Renewed Dec. 1, 1945, to Baker Importing Company, New York, N. Y., a corporation of Minnesota. Class 46.

206,906. **FLO-LAC.** PAINTS (READY-MIXED AND PASTE), FINISHES, PAINT ENAMELS, VARNISHES, STAINS, LACQUERS, PRIMERS, AND FILLERS. Registered Dec. 15, 1925. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed Dec. 15, 1945. Class 16.

207,246. **PUFFDO.** OLEOMARGARINE AND A COMPOUND COMPOSED OF COTTONSEED OIL, BEEF STEARINE, WATER AND SALT USED AS A SHORTENING FOR BAKING, ALSO FOR PRODUCING OLEOMARGARINE BY ADDING MILK TO THE AFORESAID INGREDIENTS. Registered Dec. 22, 1925. TROCO COMPANY, Chicago, Ill. Renewed Dec. 22, 1945, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 46.

207,320. **YUM YUM.** PURE CANE SIRUP FOR FOOD PURPOSES. Registered Dec. 29, 1925. NEW ORLEANS COFFEE CO., LTD., New Orleans, La. Renewed Dec. 29, 1945, to Penick & Ford, Ltd. Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

207,364. **REPRESENTATION OF THREE CANS.** SEMI-PASTE PAINT. Registered Dec. 29, 1925. THE H. B. DAVIS COMPANY. Renewed Dec. 29, 1945, to The H. B. Davis Company, Baltimore, Md., a corporation of Maryland. Class 16.

207,447. **CHER SOUVENIR.** PERFUMES, TOILET WATERS, FACE CREAMS, BATH SALTS, BATH POWDER, FACE POWDER, TALCUM POWDER, SACHET, ROUGE, LIP STICKS, LOTION FOR THE SKIN AND HAIR, BRILLIANTINE. Registered Jan. 5, 1926. PARFUMERIE RIGAUD, INC. Renewed Jan. 5, 1946, to Etablissements Rigaud, Inc., New York, N. Y., a corporation of New York. Class 6.

207,480. **"WEATHER SEASONED" ETC. AND DRAWING.** BASEBALL BATS. Registered Jan. 5, 1926. HILLERICH & BRADSBY CO., Louisville, Ky., a corporation of Kentucky. Renewed Jan. 5, 1946. Class 22.



207,551. **TROJAN.** WRITING PAPER, LEDGER PAPER, AND BOND PAPER. Registered Jan. 5, 1926. THE WHITAKER PAPER COMPANY, Cincinnati, Ohio. Renewed Jan. 5, 1946, to American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware. Class 37.

207,571. **"E. B. JACOBI LAN-O-ZIN."** MEDICINAL PREPARATION USED IN THE TREATMENT OF THE FEET. Registered Jan. 5, 1926. E. B. JACOBI, Fayette, Mo. Renewed Jan. 5, 1946. Class 6.

207,659. **FÉTICHE.** TOILET SOAPS. Registered Jan. 5, 1926. L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Renewed Jan. 5, 1946, to L. T. Piver, Inc., New York, N. Y., a corporation of Delaware. Class 4.

207,668. **PATCHOL.** FLAVORED COD-LIVER OIL. Registered Jan. 5, 1926. THE E. L. PATCH COMPANY, Stoneham, Mass., a corporation of Massachusetts. Renewed Jan. 5, 1946. Class 6.

207,674. **FONDA.** FACE POWDER, FACE CREAMS, FACE PACKS, TOILET WATERS, ROUGES, PERFUMES, HAIR TONICS, HAIR OILS, DENTIFRICES, TOOTH POWDERS, NAIL POLISHES, DEODORIZING PREPARATIONS, BATH SALTS, SMELLING SALTS, SACHETS, AND TALCUM POWDERS. Registered Jan. 5, 1926. S. H. KEESS AND COMPANY, New York, N. Y., a corporation of New York. Renewed Jan. 5, 1946. Class 6.

207,707. **FÉTICHE.** PERFUMES, EAU DE TOILETTE, EAU VEGETALE, FACE POWDER, TALCUM POWDER, SACHET POWDER, AND BATH SALTS. Registered Jan. 5, 1926. L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Renewed Jan. 5, 1946, to L. T. Piver, Inc., New York, N. Y., a corporation of Delaware. Class 6.

207,709. **BOIS DORMANT.** PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, BRILLIANTINE, FACE CREAM, ROUGE, LOTION FOR THE HAIR AND SKIN AND BATH SALTS. Registered Jan. 5, 1926. HOUBIGANT, INC., New York, N. Y., a corporation of New York. Renewed Jan. 5, 1946. Class 6.

207,821. **BEAUTYREST.** MATTRESSES. Registered Jan. 12, 1926. SIMMONS COMPANY, New York, N. Y., a corporation of Delaware. Renewed Jan. 12, 1946. Class 32.

207,961. **STORMWELT.** WELTING FOR BOOTS AND SHOES. Registered Jan. 12, 1926. BARBOUR WELTING COMPANY OF BROCKTON, MASSACHUSETTS, Quincy, Mass., assignor to Perley E. Barbour. Renewed Jan. 12, 1946, to Barbour Welting Company, Brockton, Mass., a copartnership. Class 39.

207,978. **MARINERS FLAG.** CANNED SALMON. Registered Jan. 12, 1926. ALASKA SALMON COMPANY, San Francisco, Calif. Renewed Jan. 12, 1946, to Bristol Bay Packing Company, Seattle, Wash., a corporation of California. Class 46.

208,085. **SALOSTAN.** TABLETS FOR THE TREATMENT OF BOILS AND OTHER FORMS OF SKIN AFFECTIONS. Registered Jan. 19, 1926. THE E. L. PATCH COMPANY, Stoneham, Mass., a corporation of Massachusetts. Renewed Jan. 19, 1946. Class 6.

208,170. **GREAT WESTERN.** SHEEPSKIN FUR COATS AND VESTS, SHEEPSKIN-LINED COATS AND VESTS, WOOLSKIN-LINED COATS AND VESTS, LEATHER COATS AND VESTS, LEATHER-LINED COATS AND VESTS, MACKINAW COATS AND VESTS, WORK SHIRTS AND PANTS, AND HIKING SHIRTS AND PANTS. Registered Jan. 19, 1926. ROBITSHEK, SCHNEIDER CO., Minneapolis, Minn., a corporation of Minnesota. Renewed Jan. 19, 1946. Class 39.

208,189. **BABY MINE.** BROOMS MADE FROM BROOMCORN. Registered Jan. 19, 1926. AMSTERDAM BROOM CO., Amsterdam, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 29.

208,190. **BROOMETTE.** BROOMS MADE FROM BROOMCORN. Registered Jan. 19, 1926. AMSTERDAM BROOM CO., Amsterdam, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 29.

208,191. **ROVER.** BROOMS MADE FROM BROOMCORN. Registered Jan. 19, 1926. AMSTERDAM BROOM CO., Amsterdam, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 29.

208,192. **MIRROR.** BROOMS MADE FROM BROOMCORN. Registered Jan. 19, 1926. AMSTERDAM BROOM CO., Amsterdam, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 29.

208,193. **U-R-R-"USE 'EM ROUGH".** BROOMS MADE FROM BROOMCORN. Registered Jan. 19, 1926. AMSTERDAM BROOM CO., Amsterdam, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 29.

208,209. **DRI-PAC.** ICE-CREAM CONTAINERS OF PAPER. Registered Jan. 19, 1926. FRANK G. SHATTUCK COMPANY, Boston, Mass. and New York, N. Y. Renewed Jan. 19, 1946, to Frank G. Shattuck Company, New York, N. Y., a corporation of Massachusetts. Class 2.

208,232. **ROESSLE.** CEREAL MALT BEVERAGE. Registered Jan. 19, 1926. NEW ENGLAND BREWING CO., doing business as The Roessle Brewery. Renewed Jan. 19, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

208,257. **COCO LEUM.** SHAMPOO AND A SCALP TREATMENT. Registered Jan. 26, 1926. RICHARD T. CLEARY, Charleston, W. Va. Renewed Jan. 26, 1946. Class 6.

208,267. **FOREST PARK.** BLUING AND AMMONIA. Registered Jan. 26, 1926. DOWNING TAYLOR COMPANY, Springfield, Mass., a corporation of Massachusetts. Renewed Jan. 26, 1946. Class 6.

208,343. **REPRESENTATION OF A LILY AND DESIGN.** CORSETS. Registered Jan. 26, 1926. LILY OF FRANCE CORSET CO. Renewed Jan. 26, 1946, to Lily of France Corset Company, Inc., New York, N. Y., a corporation of New York. Class 39.

208,420. **"THE 'AM BOY'" AND DRAWING.** EVAPORATED MILK. Registered Feb. 2, 1926. AMBOY MILK PRODUCTS CO., Amboy, Ill., a corporation of Illinois. Renewed Feb. 2, 1946. Class 46.

208,435. **GARGOLENE.** MEDICINAL PREPARATION USED AS A MOUTH AND THROAT WASH. Registered Feb. 2, 1926. JOHN E. MCBRADY, doing business as J. E. McBrady & Company. Renewed Feb. 2, 1946, to Bernard McBrady, doing business as J. E. McBrady & Co., Chicago, Ill. Class 6.

208,450. **NETTETÉ.** DEODORANT AND PREVENTIVE OF PERSPIRATION. Registered Feb. 2, 1926. EFFIE M. DAVIS, Syracuse, N. Y. Renewed Feb. 2, 1946, to Effie M. Davis, Oneida, N. Y. Class 6.

208,464. **BURNETT'S.** SPICE. Registered Feb. 2, 1926. JOSEPH BURNETT COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed Feb. 2, 1946. Class 46.

208,473. **BODYGARD.** FORD TRANSMISSION LINING. Registered Feb. 2, 1926. ATLAS ASBESTOS COMPANY, North Wales, Pa., a corporation of Pennsylvania. Renewed Feb. 2, 1946. Class 35.

208,488. **"RED HORSE" AND DRAWING.** OINTMENT FOR SKIN DISEASES. Registered Feb. 2, 1926. M. A. SCARBOROUGH, Clarksville, Ark. Renewed Feb. 2, 1946. Class 6.

208,494. **BASANÉE.** ROUGES AND FACE POWDERS. Registered Feb. 2, 1926. L. T. PIVER, INC., Wilmington, Del. and New York, N. Y. Renewed Feb. 2, 1946, to L. T. Piver, Inc., New York, N. Y., a corporation of Delaware. Class 6.

208,498. **"AMPOULES HYPOTENSIVES FRAISSE" ETC. AND DRAWING.** PREPARATION ADMINISTERED IN AMPUL FORM FOR THE TREATMENT OF ARTERIOSCLEROSIS. Registered Feb. 2, 1926. MARIUS FRAISSE AND CO., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc. Renewed Feb. 2, 1946, to Fraisse Laboratories, Inc., New York, N. Y., a corporation of New York. Class 6.

208,499. **"QUININE-IODO-BISMUTHATE" ETC. AND DRAWING.** PREPARATION FOR THE TREATMENT OF SYPHILIS ADMINISTERED INTERNALLY. Registered Feb. 2, 1926. MARIUS FRAISSE AND CO., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc. Renewed Feb. 2, 1946, to Fraisse Laboratories, Inc., New York, N. Y., a corporation of New York. Class 6.

208,500. **"FRAISSE'S NEVROSTHENIC AMPOULES" ETC. AND DRAWING.** PREPARATION IN AMPUL FORM FOR NEURASTHENIA. Registered Feb. 2, 1926. MARIUS FRAISSE AND CO., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc. Renewed Feb. 2, 1946, to Fraisse Laboratories, Inc., New York, N. Y., a corporation of New York. Class 6.

208,501. **"FRAISSE'S FERRUGINOUS AMPOULES" ETC. AND DRAWING.** PREPARATION ADMINISTERED IN AMPUL FORM FOR THE TREATMENT OF ANÆMIA. Registered Feb. 2, 1926. MARIUS FRAISSE AND CO., doing business as Laboratoires Fraisse, Paris, France, assignor to Fraisse Laboratories, Inc. Renewed Feb. 2, 1946, to Fraisse Laboratories, Inc., New York, N. Y., a corporation of New York. Class 6.

208,545. **BIG TIME FOR A DIME.** CANDY BARS. Registered Feb. 2, 1926. F. A. MARTOCCIO COMPANY, Minneapolis, Minn. Renewed Feb. 2, 1946, to Hollywood Brands, Inc., Centralia, Ill., a corporation of Minnesota. Class 46.

# REISSUES

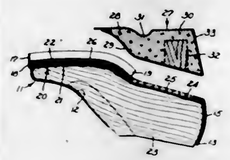
## NOVEMBER 27, 1945

### 22,695
### SHOE AND METHOD OF MAKING SAME

**Oscar Fern, Los Angeles, Calif., assignor to Jules C. Fern, Harry Sobel, and Oscar Fern, copartners doing business as Fern Shoe Co., Los Angeles, Calif.**

**Original No. 2,318,846, dated May 11, 1943, Serial No. 394,304, May 20, 1941. Application for reissue May 4, 1944, Serial No. 534,085**

**25 Claims. (Cl. 36—19.5)**



21. In a shoe, the combination of: an upper; a liner in said upper having a heel portion and having a forward portion secured to said upper with its edge turned downwardly in contact with the inner surface of said upper adjacent the lower edge of said upper forwardly of the shank; a platform member; a platform cover secured to said upper with its outer surface in contact with the outer surface of said upper adjacent the lower edge of said upper and with its lower edge turned inwardly upon said platform member; a shank member extending from the heel forwardly of the shank and under said heel portion of said liner, said upper rearwardly of the shank being lasted to said shank member; an outsole secured beneath said platform member; and a heel secured beneath said shank member.

### 22,696
### LOOSELY DUMPED FILLING BODY

**Herman Frischer, New York, N. Y.**

**Original No. 2,376,349, dated May 22, 1945, Serial No. 531,255, April 15, 1944. Application for reissue June 29, 1945, Serial No. 602,181**

**3 Claims. (Cl. 261—94)**



1. A filling body composed of tubular, generally-straight open-ended channel elements adapted to be loosely dumped into reaction spaces, such as tower spaces, to provide a passage for flowing media undergoing interactions, such as chemical reactions or the like; each channel element having two oval end surfaces which are inclined to the channel axis at an angle so related to the axial length of the channel element that a perpendicular to a portion of the channel axis extending through the central region of the channel element will intersect both end surfaces and that when an offset wall region of a channel element is placed on a horizontal support it will tip over and come to rest on such support with an end surface; the axial length of the channel element, the thickness of its wall and the inclination of its end surfaces to its axis being so chosen and correlated that when a filling body composed of such channel elements is dumped into an interaction space the individual channel elements shall have a tendency to come to rest with the end surfaces positioned in a generally horizontal direction so as to provide a generally-vertical, relatively-unobstructed passage for fluid traversing said interaction space and that an axially-offset relatively-narrow wall region of a channel element shall have a tendency to enter to a substantial depth the interior space of another channel element against which it falls.

### 22,697
### ENSILAGE HARVESTER

**Irvin D. McEachern, Petersburg, Tex.**

**Original No. 2,348,634, dated May 9, 1944, Serial No. 336,052, May 18, 1940. Application for reissue March 17, 1945, Serial No. 583,272**

**11 Claims. (Cl. 56—16)**



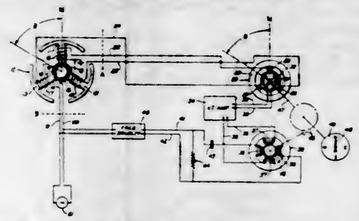
6. In a harvester, the combination of an elongated frame structure, means on said frame structure forming a throat extending lengthwise of the frame structure to receive therein upstanding stalks in the field at the forward end thereof, an endless conveyor mounted on the frame structure and extending lengthwise of the throat, said conveyor having upper and lower runs within the throat, said upper run forming a supporting surface to receive thereon the harvested stalks and to convey the same lengthwise of the throat, a cutter mounted on the frame structure at the forward end of the endless conveyor to sever the stalks in the field, vertically spaced gathering chains in a side of said throat for supporting the stalks and moving said stalks onto the upper run of the conveyor after severing thereof by the cutter, said upper and lower gathering chains extending from a point in front of the cutter to a point spaced rearwardly of the forward end of the conveyor, means for operating said chains at different speeds for causing the stalks to fall to prone positions on the upper run of the conveyor, and stalk receiving and feeding means located substantially in alignment with the upper run of the conveyor.

22,698
**COLLAR STAY**
Ben B. Manaster, Chicago, Ill.
Original No. 2,371,338, dated March 13, 1945, Serial No. 523,977, February 26, 1944. Application for reissue July 4, 1945. Serial No. 603,238
4 Claims. (Cl. 2—132)



1. A collar stay comprising a crossbar, tubular members extending substantially at right angles with respect to the crossbar and each substantially oval-shaped in cross section throughout the greater part of its length, means for connecting corresponding end portions of said tubular members to the end portions of said crossbar, leg sections telescopically arranged in said tubular members and having corresponding exterior portions providing collar-penetrating points, the opposite corresponding end portions of said leg sections being flattened and said flattened portions being movable in said oval-shaped portions of said tubular members, means confined in said tubular members in engagement with said leg sections to urge said collar-penetrating points in extended position with respect to said tubular members, and means for limiting the extent of movement of said collar-penetrating points relative to said tubular members.

22,699
**MAGNETIC COMPASS**
Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Original No. 2,361,433, dated October 31, 1944, Serial No. 464,095, October 31, 1942, which is a substitute for abandoned application Serial No. 336,444, May 21, 1940. Application for reissue October 31, 1944, Serial No. 561,252
19 Claims. (Cl. 33—204)



14. In combination, controlling means comprising an inductive device having a multipolar stator winding and a rotor winding in inductive relation with said stator winding, an electromagnetic actuating device connected to rotate the rotor winding of said inductive device, a source of alternating current, direction responsive means comprising an induction device including a multipolar winding connected to the multipolar winding of said inductive device and a single phase winding energized by said source of alternating current, whereby another alternating current is generated in the multipolar winding of said induction device, and means connecting the rotor winding of said inductive device to energize the electromagnetic actuating device, whereby the latter rotates the rotor winding of said inductive device upon relative angular displacement of said direction responsive means in azimuth.

# PLANT PATENTS

GRANTED NOVEMBER 27, 1945

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

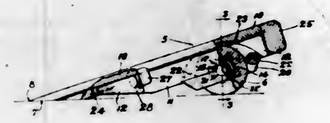
662
**AVOCADO TREE**
Melville M. Graham, La Habra, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application November 14, 1944, Serial No. 563,358
1 Claim. (Cl. 47—62)

A new and distinct variety of Avocado tree, characterized as to novelty by its slender, upright, spreading habit of growth; size and shape of its foliage; easiness of propagation by budding in comparison with its parent variety; lateness of blooming and ability to maintain many fruit thereon long after the period of maturity; the production of fruit superior in both flavor, oil content, and keeping quality; the ability of the fruit to ripen when cut hard without spoiling, to seal over the cut surface when cut at soft-ripe stage and remain in edible condition thereafter; the habit of fruit to ripen evenly with relatively high oil content, with rich, nutty, long-lasting flavor and aroma after cutting; the distinctive shape of the fruit and color of its meat with scarcity of fibers, fine texture and absence of sweetness, bitterness and soapiness; and relatively small size and distinctive shape of seed, substantially as shown and described.

# PATENTS

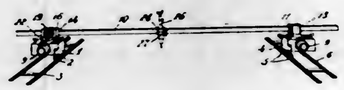
GRANTED NOVEMBER 27, 1945

2,389,584
**DOLLY**
Albert J. Acker, Muskegon, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application August 5, 1942, Serial No. 497,433
7 Claims. (Cl. 280—61)



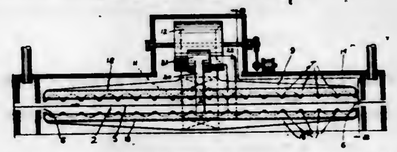
1. A dolly for moving heavy objects having, in combination, a top member comprising a flat generally rectangular plate, depending side members rigid with the top member, a roller journaled in said side members and extending below the lower edges of the same to provide rolling support for the dolly, said side members terminating at a point spaced substantially from one end of the top member, and a cross member secured to the underside of said top member between said one end of the top member and the adjacent ends of the side members, said cross member and said top member having their lower surfaces inclined at an angle to the top surface of the top member to present a relatively wide bearing surface lying in a plane tangent to the periphery of said roller.

2,389,585
**PLATE CUTTING OR WELDING MACHINE**
James L. Anderson, Chester, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application February 24, 1943, Serial No. 476,929
5 Claims. (Cl. 266—23)



1. In a plate cutting or welding machine adapted to operate on a pair of parallel tracks including a self-propelled motor-driven carriage adapted to travel on each track, a bar spanning the two carriages and swivelly connected at one end to one of the carriages, an arm swivelly connecting the other end of the bar to the second carriage, a torch carried by said bar for operating on a work piece, an adjustable speed-control governor on the second carriage and means on said second carriage for adjusting the governor; the improvement which comprises a lever pivoted on the second carriage and operatively connected at one end to the governor adjusting means, and means whereby swivelling of said arm upon canting of the bar due to the carriages moving out of transverse alignment swings said lever about its pivot and thereby actuates said governor adjusting means.

2,389,586
**DRYING APPARATUS**
Bernard R. Andrews, Braintree, Mass.
Application November 17, 1944, Serial No. 563,897
3 Claims. (Cl. 34—68)



1. A drying apparatus for drying web material comprising an elongated chamber, one wall of which extends substantially parallel to the web material to be dried and is provided with a plurality of nozzle elements directed towards said material, means to maintain said chamber filled with heated air under pressure whereby such air is delivered through said nozzle elements against the web, an imperforate partition wall of heat-conducting material connecting each two adjacent nozzle elements thereby forming therewith a hot air chamber, and means to deliver to said hot air chamber air having a temperature considerably higher than that delivered from said nozzle elements, whereby said partition walls become highly heated and project radiant heat of relatively high temperature against the web material.

2,389,587
**HEATING APPARATUS**
Theodore C. Appleman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 5, 1942, Serial No. 464,597
5 Claims. (Cl. 219—25)

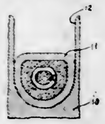


1. The method of making an electrical heating unit provided with a metal body having a sheathed electrical heating element for heating the same disposed within a groove in said body, which method comprises applying pressure to the sheathed heating element along a relatively narrow zone over the center of the element, said pressure being of sufficient magnitude to deform the element and to cause the portions on opposite sides of said narrow zone to be raised above said narrow zone and thereby to press a substantial portion of the surface of the sheath into contact with the wall of the groove.

2,389,588
**HEATING APPARATUS**
Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 29, 1942, Serial No. 463,758
11 Claims. (Cl. 219—25)

6. The method of making an electrical heating unit comprising providing a metallic member

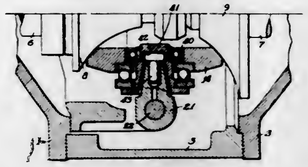
having a groove therein, placing a sheathed heating element in said groove, applying pressure of the order of 15 to 20 tons per square inch to said



heating element to force the surface of said sheath tightly against the adjacent surface of said groove.

---

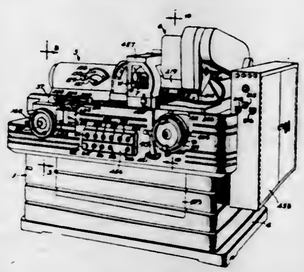
2,389,589
**FRICTION WHEEL CHANGE SPEED GEAR**
**Jakob Arter, Mannedorf, Switzerland**
Application March 1, 1943, Serial No. 477,569
In Switzerland January 16, 1942
3 Claims. (Cl. 74—200)



1. A change speed gear comprising coaxially disposed driving and driven shafts, driving and driven wheels mounted respectively on said shafts, transmitting wheels disposed between the driving and driven wheels respectively, a yoke on which the intermediate wheels are supported for swinging movement about axes intersecting the axes of said intermediate wheels and forming an angle with the alined axes of the driven and driving wheels, said yoke being oscillatable about a fixed axis and presenting a cylindrical bearing portion whose axis coincides with the swinging axis of the yoke, and a bearing element associated with the intermediate wheels engaging said cylindrical bearing surface associated with the yoke.

---

2,389,590
**THREAD GRINDING MACHINE**
**Guenther Brinkmann, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan**
Application March 18, 1942, Serial No. 435,224
14 Claims. (Cl. 51—95)



1. A grinding machine comprising, in combination, a base, a work head supporting a spindle on said base for rotation and for axial translation out of idle position in forward and reverse directions of translation, a tool head supporting a rotary grinding wheel on said base for movement transversely of said spindle either in one direction into an operative position or in the other direction into a remote idle position offset with relation to said work head, and automatic interlock control means for preventing movement of said work head out of idle position unless said tool head is in operative position and movement of said tool head out of either of its positions unless said work head is in idle position.

---

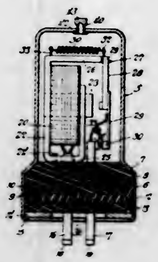
2,389,591
**COLOR ILLUMINATOR FOR FLASHLIGHTS**
**Le Roy O. Brown, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a corporation of Illinois**
Application October 25, 1943, Serial No. 507,534
3 Claims. (Cl. 240—10.6)



1. In a flashlight, a cylindrical battery casing adapted to contain at least one battery cell, a bulb cover having theraded connection with one end of the casing to form a closure for said end, said bulb cover containing and positioning a light bulb in contact with the positive electrode of the battery cell, a color illuminator fixed to the bulb cover and including a semi-spherical shell having a light opening in alignment with a similar opening in the cover, two slides of colored transparent material located between the shell and cover and adapted for independent movement between said light openings, said semi-spherical shell providing internal recesses for receiving and guiding the slides respectively, and means fixed to each slide and extending through a slot in the shell for actuating the slide.

---

2,389,592
**RELAY STRUCTURE**
**Herbert E. Bucklen, Jr., Elkhart, Ind., and Uno C. Hedin, Des Moines, Iowa; said Hedin assignor to said Bucklen, Jr.**
Application March 21, 1941, Serial No. 384,542
2 Claims. (Cl. 200—87)



1. An enclosed relay construction comprising a normal open air contact type relay having an armature and an actuating coil, an enclosing



shell of a non-magnetic metal resistant to the passage of gas therethrough, a ceramic insert in one end of said shell, said shell having an annular shoulder forming an abutment for said insert, means rigidly mounting said relay with its component parts on the inner face of said insert, elastic resilient sealing means overlying the outer face of said insert and having peripheral wedging action between said insert and the inner wall of said shell, compression means locked in the end of said shell engaging the outer face of said sealing means for maintaining it in compressed position against said insert and shell wall, and a filling of hydrogen gas under greater than atmospheric pressure in said shell.

---

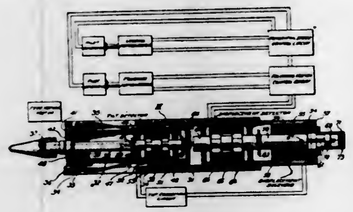
2,389,593
**WINDOW SHADE ATTACHMENT**
**Arthur H. Cadieux, Granby, Quebec, Canada**
Application February 24, 1944, Serial No. 523,706
3 Claims. (Cl. 160—102)



2. In a shade attachment, a rigid semi-transparent panel having a length substantially equal to the width of a shade, and an attaching medium forming a part of the upper edge of the panel to receive and grip the free end of a shade, said attaching medium comprising a channel shaped member open on at least one end to slidably receive the free end of the shade, said channel shaped member having converging upper edges.

---

2,389,594
**ELECTRIC CONTROL FOR MACHINE TOOLS**
**Samuel H. Caldwell, Belmont, and Jacob J. Jaeger, Cambridge, Mass., and Richard Taylor, Great Neck, N. Y., assignors to Niles-Bement-Pond Company, Hartford, Conn., a corporation of New Jersey**
Application December 15, 1939, Serial No. 309,434
15 Claims. (Cl. 90—13.5)



12. In a control of the character described, a tracer having a stylus displaceable positively and negatively from a balanced position, means for translating displacement of the tracer stylus in either direction from said balanced position into E. M. F. of a magnitude depending upon the amount of the displacement, and other means for translating displacement of the tracer stylus into E. M. F., the magnitude of which is dependent upon the rate of tracer stylus displacement.

---

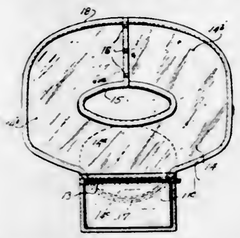
2,389,595
**PLASTIC PICKER STICK**
**Otis L. Carter and Thomas A. Putnam, Greenville, S. C**
Application July 10, 1944, Serial No. 544,177
2 Claims. (Cl. 139—157)



1. A plastic picker stick for looms comprising a longitudinally extending reinforcing member having the plastic material molded thereabout, means secured to the reinforcing member and extending to the exterior surface of the plastic material and around which the plastic material is molded to provide a supporting means for the lug strap associated with a loom and a picker stick.

---

2,389,596
**KIT FOR TOILET PURPOSES**
**Benjamin Charnas, Forest Hills, and Arthur Malina, New York, N. Y.**
Application December 27, 1944, Serial No. 570,024
8 Claims. (Cl. 224—5)

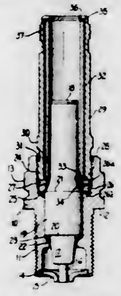


1. In kits for toilet activities, a pouch-like container having a flap adapted to be positioned in overlying relation to the front wall of the container, said container including a partition extending in general parallelism with the front and rear walls of the container to thereby form front and rear pockets within the container, said front

pocket having an individual closure means and being adapted to receive the toilet articles, said rear pocket having an open top adapted to be closed by the closing of the container flap, and a foldable protecting element permanently secured to the inner face of the rear wall of the rear pocket, said element being housed within the rear pocket when folded and being adapted to be placed in service position about the neck of the user when withdrawn and unfolded with the element forming a support for the container when in such service position.

---

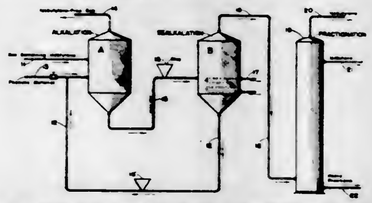
**2,389,597**
**SPARK PLUG**
**Chester Cipriani and Carl J. Eaton, Toledo, Ohio**
**Application April 12, 1943, Serial No. 482,688**
**8 Claims. (Cl. 123—169)**



1. In a device of the class described, a metallic shell having an internal shoulder and an insulator including a central electrode positioned in the shell having an enlarged portion adapted to rest on the internal shoulder, a ring-like spring member adapted to cooperate with the enlarged portion of the insulator, the radial dimension of a portion of the spring member being substantially larger than its longitudinal dimension, and means on the shell to cooperate with the perimeter of the spring member to distort the spring member whereby the insulator is resiliently held against said internal shoulder.

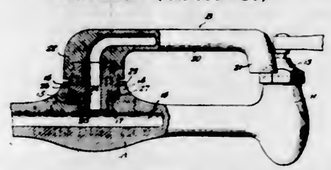
---

**2,389,598**
**PRODUCTION OF TERTIARY PARAFFINS**
**Oliver H. Dawson, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application February 25, 1943, Serial No. 477,076**
**12 Claims. (Cl. 260—676)**



1. A method of producing paraffinic hydrocarbons comprising the step of heating an alkyl phenol at a temperature in the range of 250° to 600° F. in the presence of clay under acidic conditions to evolve a paraffinic hydrocarbon therefrom.

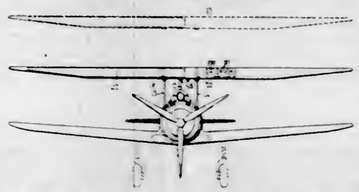
**2,389,599**
**SWING SPOUT MIXING FAUCET**
**John J. Delany, Brooklyn, N. Y., assignor to Coyne & Delany Company, New York, N. Y., a corporation of New York**
**Application December 13, 1944, Serial No. 567,939**
**5 Claims. (Cl. 277—57)**



1. In a swing spout mixing faucet, a faucet body defining a mixing chamber and having inlet valves at the opposite ends thereof including removably associated valve bonnets, said faucet body having an outlet intermediate the ends thereof, a spout having an intake terminal threadedly engaging said faucet body outlet and communicating with the mixing chamber and an outlet terminal at the outer end of the spout arranged to swing in a path intersected by the valve bonnets, said inlet valves being so located as to clear the outlet terminal of the spout when the bonnets are removed to permit of multiple rotation of the spout when threadedly engaging and disengaging the intake end thereof with the faucet body outlet, said valve bonnets when applied to the inlet valves serving as stops to prevent complete rotation of the spout and to limit the same to swinging movement therebetween.

---

**2,389,600**
**LIFEBOAT FOR AIRPLANES**
**Alexander P. de Seversky, New York, N. Y.**
**Application May 8, 1942, Serial No. 442,145**
**8 Claims. (Cl. 244—1)**



1. In an airplane, a detachable wing constructed to serve as a supporting wing in flight, and as a raft in the water, said wing being constructed to include a main body portion, and an edge mast section, means adjustably mounting said section on said main body portion to normally form a portion of one edge of the wing and for movement from normal position to upright position to constitute a mast, together with means for holding the edge mast section in position as edge section of the wing and means for holding said section in upright position in the wing.

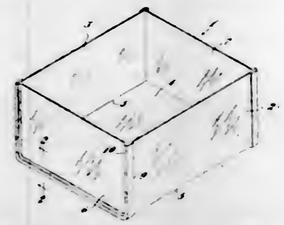
---

**2,389,601**
**RECEPTACLE AND METHOD OF MAKING IT**
**William J. De Witt, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a corporation of New York**
**Application August 6, 1943, Serial No. 497,578**
**2 Claims. (Cl. 229—23)**

1. A substantially rectangular box having a bottom and spaced parallel sides integrally joined



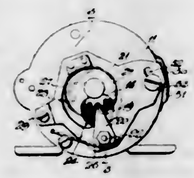
to the bottom and having a pair of like end members of stiff moldable shape-retaining sheet material, each end member having its bottom and side margins so permanently shaped as to provide two parallel flange members each perpendicular to the plane of the body portion of the respective end member, the first of said flanges being integrally united by a right angle bend to said body portion of the end member and the second flange being integrally joined to the first by a U-bend of a radius exceeding the thickness of the sheet material and forming a smoothly rounded



external bead, the flanges being spaced apart to provide a channel of a width equalling the thickness of the material forming the bottom and side walls of the receptacle, the second of the flanges being wider than the first so that it extends beyond the plane of the inner surface of the end member, the margins of the bottom and side walls being disposed in the channels of the respective end members, and means coextensive with the areas of said flanges permanently uniting the bottom and side walls to the end members.

---

**2,389,602**
**FISHING LINE REEL**
**Dominick Dilea, Utica, N. Y.**
**Application February 3, 1945, Serial No. 576,038**
**4 Claims. (Cl. 242—84.6)**



1. In a fishing line reel having a frame provided with end members, a reel extending between said end members, and a handle for said reel disposed adjacent one of said end members; a toothed wheel rotatable with said reel and disposed near the other of said end members, a lever at the outer side of said other end member and fulcrumed at its front end thereto for vertical movement, a pawl yieldably mounted on said lever for engagement with said toothed wheel when said lever occupies a raised position, spring means normally holding said lever in said raised position, a thumb bar at the rear edges of said end members, said thumb bar being secured at one of its ends to the rear end of said lever for depressing the latter to free said pawl from said toothed wheel when desired, and a guide secured to said one end member and slidably receiving the other end of said thumb bar.

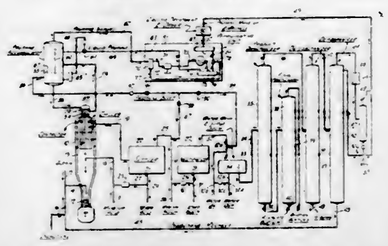
**2,389,603**
**FLOW INDICATOR**
**Lewis L. Doltinger, Rochester, N. Y., assignor to Doltinger Corporation, Rochester, N. Y., a corporation of New York**
**Application February 1, 1944, Serial No. 520,708**
**3 Claims. (Cl. 73—228)**



1. In combination with a duct through which a stream of fluid is adapted to flow, a flow indicator comprising a rotatable member extending into the duct, said member having a vane fixed thereon in angular relation thereto to extend into said stream, said vane being bent medially thereof about an axis parallel to said member to provide two portions exposed to said stream and inclined with respect to each other whereby the vane presents substantially equal effective areas to the stream irrespective of the amount that the vane has been rotated, and means for normally supporting one of said portions in a plane substantially normal to the direction of flow of the stream.

---

**2,389,604**
**TEMPERATURE CONTROL FOR HYDROCARBON OIL PROCESSING**
**Leonard F. Dowding, Eastchester, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application April 1, 1944, Serial No. 529,075**
**18 Claims. (Cl. 260—683.4)**



1. The cyclic method of controlling the temperature in a refinery hydrocarbon oil processing step, which comprises stabilizing and fractionating a hydrocarbon fraction to separate a normally gaseous hydrocarbon from heavier hydrocarbons, passing said normally gaseous hydrocarbon in liquefied form through a chilling zone in indirect heat exchange with the hydrocarbon oil being processed, whereby a portion of the liquefied normally gaseous hydrocarbon is vaporized, removing the vapors to a zone of compression and cooling for liquefaction and returning the liquefied refrigerant to the chilling zone, recirculating the refrigerant through repeated stages of said compression and cooling for liquefaction and indirect heat exchange for evaporation, whereby the refrigerant tends to become contaminated with heavier liquid impurities which accumulate in the chilling zone, withdrawing a minor portion of the contaminated liquefied refrigerant from the chilling zone, mixing the same with the said hydrocarbon fraction and then subjecting the resulting mixture to the

stabilizing and fractionating operation, whereby the hydrocarbon refrigerant is separated from the heavier liquid impurities, and returning the separated purified hydrocarbon refrigerant together with any additional make-up normally gaseous hydrocarbon from said stabilizing and fractionating operation to the chilling zone.

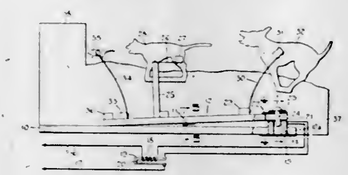
---

2,389,605
**PROTEIN SHEET MATERIAL AND METHOD OF MAKING THE SAME**
**Francis Clarke Atwood, Newton, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware**
**No Drawing. Application April 29, 1942, Serial No. 441,050**
**7 Claims. (Cl. 106—142)**

1. A method of preparing protein sheet, film and coating compositions, which comprises dispersing casein in an aqueous solution containing an alkylamine higher fatty acid soap the fatty acid portion of which comprises a major portion of unsaturated fatty acids to form a uniform casein dispersion, aging said dispersion at a temperature of approximately 150 to 220° F. for several hours and adding a casein hardening agent to the aged dispersion.

---

2,389,606
**ADVERTISING DISPLAY**
**Ernst Borregard, Long Island City, N. Y., assignor to Fuller Displays, Inc., Long Island City, N. Y., a corporation of New York**
**Application February 12, 1942, Serial No. 430,565**
**4 Claims. (Cl. 46—119)**



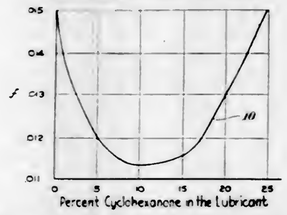
1. An animated display device comprising in combination a base, a lever pivotally mounted on the base, means for oscillating the lever, a plurality of display figures, and differentially resilient means for mounting the display figures individually on the lever, whereby upon oscillatory motion imparted to the lever differential movement is imparted to the respective display figures.

---

2,389,607
**PREPARATION OF ALKENYL CYANIDES**
**Edgar C. Britton, Howard S. Nutting, and Myron E. Huscher, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application August 24, 1940, Serial No. 354,106**
**9 Claims. (Cl. 260—464)**

1. In a method of making alkenyl cyanides wherein a beta-hydroxy-alkyl cyanide is heated in the presence of a dehydration catalyst to evolve vapors comprising an alkenyl cyanide and water and the evolved vapors are condensed, the step of treating the moist alkenyl cyanide with acid, whereby the alkenyl cyanide is stabilized.

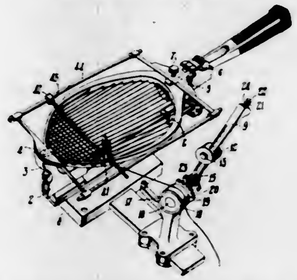
2,389,608
**LUBRICATING AND PENETRATING OIL**
**Jose B. Calva, St. Paul, Minn.**
**Application September 15, 1944, Serial No. 554,260**
**6 Claims. (Cl. 252—52)**




1. A lubricating substance containing in its composition up to 25% cyclohexanone but in sufficient quantity to reduce the coefficient of friction.

---

2,389,609
**RACKET STRINGING MACHINE**
**Martin Caro and Gustave Lambet, Brussels, Belgium; vested in the Alien Property Custodian**
**Application September 2, 1941, Serial No. 409,279**
**In Belgium May 31, 1938**
**1 Claim. (Cl. 73—145)**



In a machine for stringing rackets, a racket supporting frame, a string tensioning device slidably mounted on the frame comprising a drum having a toothed sector at one edge and an elastic facing on its periphery, a screw threaded radially into the periphery of the drum, a washer on said screw movable toward the drum to clamp the string between the washer and drum facing, an elongated lever pivoted concentrically with the drum and provided with a spring-pressed pawl engaging the toothed sector of the drum, a counterweight slidable along the lever, means for securing the counterweight in various adjusted positions on the lever, means for maintaining the drum and lever in inoperative positions when desired, including a two-armed detent pivoted intermediate its ends on the frame, a stop projecting from the drum into position to be engaged by one arm of said detent, a spring normally urging said detent into position to engage said stop, a slide on said lever positioned to engage the other arm of said detent to swing said detent out of engagement with said stop when desired, a spring normally holding said slide out of engagement with said detent, and means on said lever for moving said slide at will into position to disengage said detent from said stop.



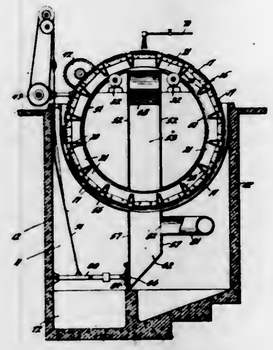
2,389,610
**KNOB ADAPTER**
**Trace S. Christenson, Jr., Detroit, Mich.**
**Application January 8, 1944, Serial No. 517,528**
**4 Claims. (Cl. 287—53)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A knob adapter for a knob having a head and a stem comprising a split bushing having an external thread, a tapped sleeve adapted to be screwed on said thread, and an internal rib in said sleeve, said bushing having an axial bore engageable with the stem of the knob, said bore having a flared end engageable with the head of the knob.

---

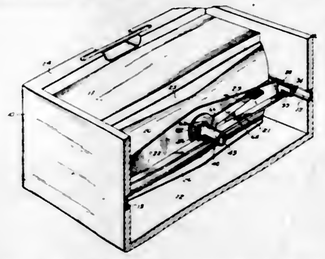
2,389,611
**SEPARATING APPARATUS**
**Avery A. Clark, Denver, Colo., and Harry W. Hooper, Scottsbluff, Nebr., assignors to The Great Western Sugar Company, Denver, Colo., a corporation of New Jersey**
**Application September 18, 1943, Serial No. 502,986**
**14 Claims. (Cl. 209—424)**



14. In apparatus for removing stones from a suspension of lighter solids in a liquid moving through a hydraulic flume, the combination with adjacent flume sections, of means affording a chamber interposed between and communicating with said flume sections, an apertured conveyor, said conveyor being formed to provide pockets affording receptacles for stones and being positioned to pass transversely under the flow line of the flume, means for directing a flow of liquid within said chamber upward through the conveyor and through the pockets with a velocity sufficient to prevent the lighter solids from settling in the pockets while permitting the settling therein of stones, and means driving the conveyor to effect removal of the stones laterally of said upward flow of liquid and laterally of the direction of movement of liquid through said flume.



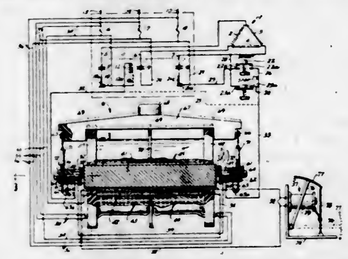
2,389,612
**FILING RECEPTACLE**
**Oluf L. Cleven, Washington, D. C., and Lawrence A. Wilson, Riva, Md.**
**Application May 27, 1944, Serial No. 537,666**
**7 Claims. (Cl. 129—30)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



6. In a card file, the combination with a card tray having opposite side walls and an end wall, of a resilient, card compressor plate mounted in said tray for rectilinear, slidable adjustment movement toward and from said end wall, said plate having a generally arcuate shape from top to bottom to provide a substantially concave wall surface facing said tray end wall, said plate also having longitudinally extending integral reinforcement adjacent its median line.

---

2,389,613
**POLYPHASE PROTECTIVE SYSTEM**
**Robert P. De Anthony, Dayton, Ohio**
**Application June 30, 1944, Serial No. 542,995**
**1 Claim. (Cl. 177—311)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

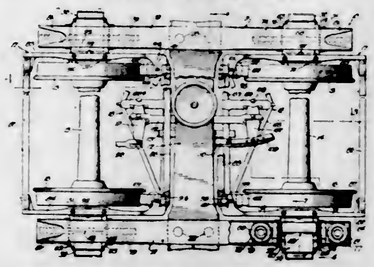


In a polyphase dynamoelectric machine protective apparatus, a plurality of phase lines adapted to be connected to a polyphase dynamoelectric machine, a thermal responsive element in each phase line for interrupting current flow incident to overload in that line, magnetically operable circuit closing and holding means for closing all phase circuits and releasably maintaining the same in closed position including a closing circuit and a holding circuit for energizing said magnetically operable circuit closing and holding means, a support, a core, an independent exciting coil on said core for each phase line connected in shunt across the thermal responsive overload device in that line, an electrically operable signal device and an additional induction coil on said core having a closed operating circuit including the electrically operable signal device, circuit closing armature means movably mounted to be actuated by said

core, cooperating circuit closing contacts carried by said armature and support disposed in said holding circuit, spring means between the support and armature to yieldably space the same from said core, with the closing contacts engaging each other to close the holding circuit, and releasable latching means between the support and armature for holding the armature and contacts in circuit breaking position after attraction thereof by said core incident to energization of one of said shunt circuits due to current interruption of current flow in one of said phase lines by the thermal response overload element in that line.

---

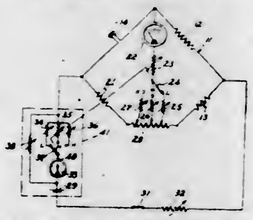
2,389,614
**RAILWAY TRUCK**
Kingman Douglass, Lake Forest, and Carl R. Moline, Homewood, Ill., assignors to Allied Railway Equipment Company, a corporation of Illinois
Application January 19, 1942, Serial No. 427,248
10 Claims. (Cl. 188—207)



1. In a railway truck, a pair of wheeled axles, journal boxes for said axles, swing hangers mounted on said journal boxes, a truck frame comprising side frames supported by said swing hangers from said journal boxes, means for connecting said side frames together, a polygonal brake frame for each axle, means for rigidly connecting each frame to the journal boxes of the corresponding axles, and brake beams and operating mechanisms supported by said brake frames, said brake frames being located wholly between said side frames and free from said first-named means, whereby said truck frame may be elevated from said wheeled axles and brake frames.

---

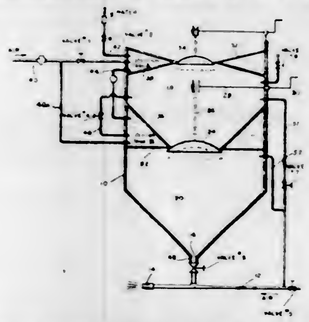
2,389,615
**ANEMOMETER**
James P. Eder, New York, N. Y.
Application October 9, 1943, Serial No. 505,628
6 Claims. (Cl. 73—204)



1. A fluid flow meter comprising a bridge circuit having four legs including a resistance heated by current flowing through said circuit and adapted to be interposed in a stream of fluid to be measured, a meter having a scale thereon denoting progressively increasing degrees of unbalance across said circuit, a bridge voltage source, and adjustment means for calibrating said meter at substantially the zero, mid-scale, and full scale positions under known operating conditions, said adjustment means comprising a bridge ratio adjuster for said zero position calibration, a bridge voltage adjuster for said mid-scale calibration, and a meter-sensitivity adjuster for said full scale calibration.

---

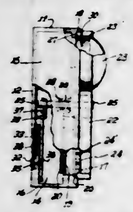
2,389,616
**METHOD OF SANDBLASTING AND APPARATUS THEREFOR**
Godfrey Franklin, Vallejo, Calif.
Application July 22, 1943, Serial No. 495,761
10 Claims. (Cl. 51—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



5. Apparatus for continuously delivering granular material, said apparatus comprising a container, means for maintaining superatmospheric fluid pressure therethroughout, means for containing a mass of said material, means providing an orifice through said containing means, means for connecting said orifice-providing means and the container, and means for supplying liquid to said material before it is delivered through said orifice, said containing means and said orifice being so positioned that said material and said liquid may pass together by gravity through said orifice and into said container.

---

2,389,617
**EXPOSURE METER**
Gertrude E. Freund, San Fernando, Calif.
Application October 9, 1944, Serial No. 557,736
9 Claims. (Cl. 88—23)

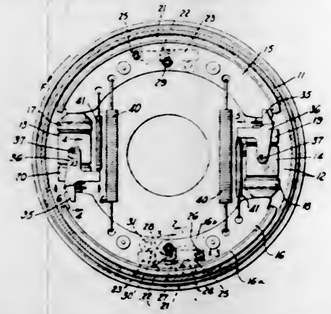


8. In an exposure meter: a housing provided with a port therein and a light-sensitive cell beneath said port, a carrier turret mounted on said housing, the turret being provided with a translucent light-collecting member and a light-transmitting portion, said turret being movable to bring said member and portion selectively into operative relation with said port and cell, a device including an index for indicating the response of the cell to light, within the housing, a scale including different series of indices, and means for automatically shifting the scales when the carrier turret is moved to place a desired series of indices in operative relation to the index of the response indicating device.

---



2,389,618
**BRAKE**
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 1, 1942, Serial No. 453,237
3 Claims. (Cl. 188—79.5)

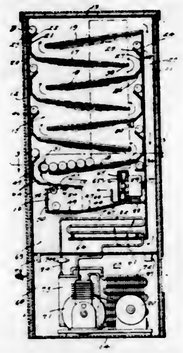


1. In a brake having a drum, a backing plate, and a lined shoe adapted to be moved at times against the drum, automatic adjusting means for the shoe comprising a block member extending through the shoe and shoe lining and having its face flush with the face of the lining so as to contact the drum when the shoe is moved against the drum, said block member being shifted inwardly relative to the shoe by wear of the shoe lining, a bearing member mounted on the shoe and contacting one side of said block member, a cam follower block having surface contact with the other side of said block member and adapted to be shifted laterally as said block member moves inwardly, a lever pivoted to the cam follower block and to the shoe, and a stop mounted on the backing plate and arranged to contact one end of the lever to hold the shoe in a released position determined by the angular position of the lever.

---

2,389,619
**REFRIGERATED BOTTLE DISPENSING DEVICE**
Thomas Francis Green, Jr., Richmond, Va.
Application April 8, 1941, Serial No. 387,497
6 Claims. (Cl. 62—102)

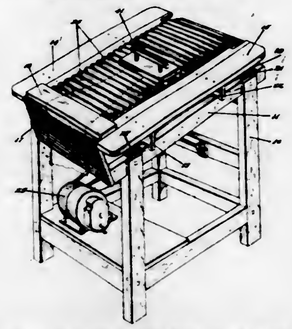
1. A refrigerated bottle dispensing structure comprising a cabinet, a bottle cooling chamber in said cabinet, a plurality of opposed and oppositely inclined substantially J-shaped track forming members in said cabinet, said members being disposed in superposed relation and one portion of each member constituting a supporting means for holding bottles in disengaged position with respect to the track for pre-cooling certain bottles in said cabinet, a charging door carried by said cabinet confronting a portion of said members, means circulating cool air in said chamber, and



means engageable with said door and connected with said circulating means for stopping said air circulating means when said door is opened.

---

2,389,620
**STRETCHING AND SPUDDING MACHINE**
William Green, Gloversville, N. Y.
Application January 13, 1943, Serial No. 472,235
15 Claims. (Cl. 69—34)



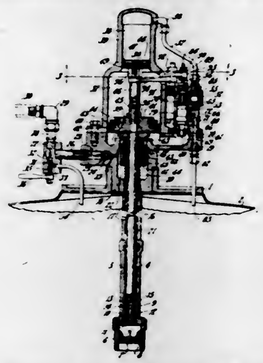
1. A leather stretching and spudding machine comprising a transverse skin-holding member, and a continuous flight of transverse slats movable away from said holding member in a path supporting a skin in position to be engaged by a manually operated blade for bending the skin over the advancing edge of any selected slat in the flight.

---

2,389,621
**FLUID PRESSURE MOTOR**
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application September 16, 1944, Serial No. 554,406
8 Claims. (Cl. 121—152)

1. A motor, comprising, a power cylinder and a power piston therein, pressure fluid supply means for delivering fluid to one end of said cylinder to move it on its power stroke, yieldable means for moving the piston on its return stroke when said end of the cylinder is connected to exhaust, reciprocating valve means for controlling an alter-

nate supply of fluid to and exhaust of fluid from said end of said cylinder, means operable by fluid pressure to move said valve means in one direction to admit fluid to said cylinder, means operable by fluid pressure in said cylinder for moving said valve means in an opposite direction to cut off the supply of pressure fluid and open the exhaust, a valve carried by said valve means to shut off communication between the power cylinder



and the second fluid-pressure-operated means during the power stroke of the power piston, and means operable by and at the end of the power stroke of said power piston to mechanically lift said valve from its seat and admit fluid pressure from the power cylinder to the second fluid-pressure-operated means and move the valve means to cut off the supply of pressure fluid to and open the exhaust from said power cylinder.

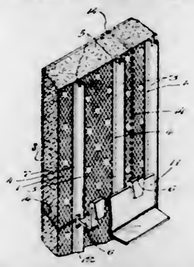
---

2,389,622

**WALL CONSTRUCTION FOR HEATERS**

Walter C. Hensel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 21, 1941, Serial No. 389,553
5 Claims. (Cl. 72—101)



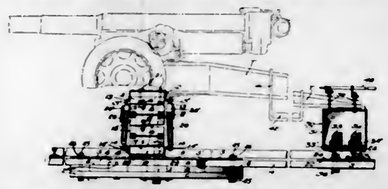
1. A wall slab for heaters and the like comprising a substantial thickness of insulating material, a lesser thickness of refractory material consisting of a set plastic mixture disposed over one surface of the insulating material and directly bonded thereto in setting and a sheet of open-work metal disposed adjacent and substantially co-extensive with the opposite face thereof and secured to the insulating material by spaced anchoring means integral with said sheet and projecting from the plane thereof into the insulating material for a distance substantially less than the thickness of the latter.

2,389,623

**MOBILE GUN EMPLACEMENT**

Chilton L. Hervey, Washington, D. C.

Application October 8, 1943, Serial No. 505,443
10 Claims. (Cl. 89—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a mobile emplacement for a gun having a carriage and traverse trails, in combination, a compression member center post for supporting the said gun carriage above the ground, an annular track means concentric with the post for supporting the distal ends of the said trails, said post comprising a part of adjustable inclination in the direction of the axis of the gun and adjustable means at front and rear of the said part connected between vertically spaced portions of the said part to control and hold the adjusted inclination of the said part, the said post and track means being sufficiently high above the ground to provide clearance for recoil of the gun breech when fired at a high angular elevation.

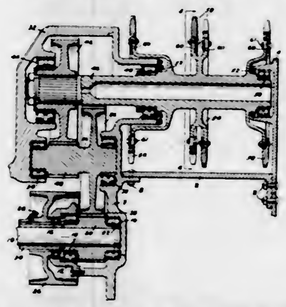
---

2,389,624

**POWER TRANSMISSION APPARATUS FOR TRACK-LAYING VEHICLES**

Harry A. Knox, Washington, D. C., and Bert F. Baker, Riverdale, Md.

Application January 30, 1943, Serial No. 474,194
4 Claims. (Cl. 180—9.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a power transmission apparatus for a track-laying vehicle having a double track on each side, a driving shaft at each side of the vehicle, inner, outer and intermediate sprocket hubs carried by each shaft, a single sprocket ring mounted on each of the inner and outer hubs, a pair of closely adjacent sprocket rings mounted on the intermediate hub, aligned teeth on the sprocket ring on the inner hub and the sprocket ring on the intermediate hub which is directly opposite the sprocket ring on the inner hub, aligned sprocket teeth on the outer hub and the other sprocket ring on the intermediate hub, said last mentioned aligned sprocket teeth being staggered in relation to said first mentioned sprocket teeth, whereby the treads of the tracks mounted on said sprocket rings are caused to strike the ground in staggered sequence.



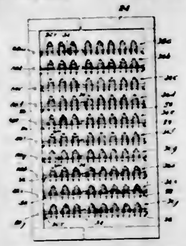
---

2,389,625

**DROP NEEDLE CONTROL AND AN ELECTRICALLY OPERATED STOP MOTION FOR WARPING OR BEAMING PLANTS**

Fritz Lambach, Tenafly, and Walter Siegel, Union City, N. J., assignors to Robert Reiner, Inc., Weehawken, N. J.

Application May 12, 1943, Serial No. 486,650
7 Claims. (Cl. 28—51)



1. A drop needle control for an electrically operated stop motion for a warping or beaming plant comprising: a plurality of supports, a plurality of rows of control means swingably mounted on said supports, a photo-electric element arranged for electrical connection with the stop motion, a source of light arranged for projecting light rays upon said photo-electric element, and optical means arranged in the path of said light rays for directing same through spaces controlled by said plurality of rows of control means, each swingable control means being arranged for cooperation with warp yarn to be wound and for control of the passage of the light rays between said source of light and said photo-electric element by a change in its position in dependence on the condition of the warp yarn.

---

2,389,626

**PREPARATION OF VINYL HALIDES**

Wilbur A. Lazier, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 30, 1942, Serial No. 449,193
10 Claims. (Cl. 260—655)

1. A process for synthesizing a compound from the group consisting of vinyl halide and hydrocarbon-substituted vinyl halide, which comprises bringing an acetylenic compound from the group consisting of acetylene and hydrocarbon-substituted acetylene, while in the vapor phase and admixed with a hydrogen halide, into contact with a gold halide.

---

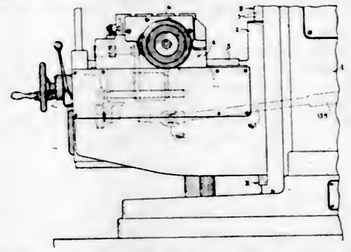
2,389,627

**MILLING MACHINE DRIVE MECHANISM**

Richard K. Le Blond, Cincinnati, and Harry C. Kemper, Goshen Township, Clermont County, Ohio, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio, a corporation of Delaware

Original application October 14, 1941, Serial No. 414,962, now Patent No. 2,338,121, dated January 4, 1944. Divided and this application December 18, 1943, Serial No. 514,761
1 Claim. (Cl. 90—21)

In a milling machine, a column, a knee, spaced parallel ways on said column mounting said knee for translation in a first direction, work feeding devices on said knee supporting and guiding a work piece thereon for movement in second and third directions, all said directions being mutually normal, a first shaft journaled in said column, a second shaft journaled in said knee, said shafts being substantially parallel, mechanical, varia-



ble speed connections between said second shaft and said devices, a splined sleeve, a universal joint connecting said sleeve to one of said shafts, a shaft splined to fit said sleeve, and a second universal joint connecting said splined shaft to the other of said first and second shafts, said splined shaft extending between said ways and being enclosed by said column and knee.

---

2,389,628

**LINEAR POLYAMIDES**

Elmore Louis Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 17, 1942, Serial No. 458,735
4 Claims. (Cl. 260—78)

1. A polyamide comprising the reaction product of a linear polymer-forming composition consisting essentially of bifunctional amide-forming material comprising a mixture of 4-mercaptopimelic acid and diamine.

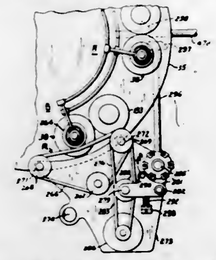
---

2,389,629

**AUTOMATIC, CHANGE SPEED DRIVE FOR POTTERY WARE JIGGERING APPARATUS**

William J. Miller, Swissvale, Pa., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania

Original application January 13, 1944, Serial No. 518,079. Divided and this application January 29, 1944, Serial No. 520,272
11 Claims. (Cl. 25—26)

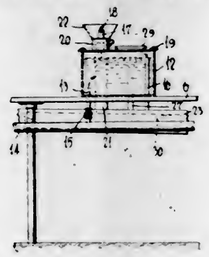


1. In apparatus for jiggering potteryware, a plurality of jiggering mechanisms each including a rotatable jigger spindle having a ware

forming implement mounted thereon, movable supporting means for said mechanisms for transporting them to a jiggering position, and a variable speed jigger spindle drive mechanism common to all spindles at said position automatically operable to rotate each jigger spindle, one at a time, in succession.

---

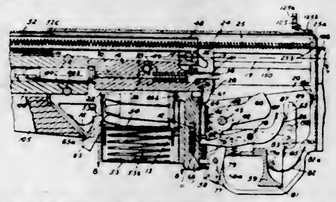
**2,389,630**
**WORKTABLE FOR HANDLING EGGS**
**William E. Mitton, Shawano, Wis., assignor, by mesne assignments, to W. E. Mitton Company, Shawano, Wis., a limited partnership**
**Application November 21, 1941, Serial No. 420,036**
**13 Claims. (Cl. 146—2)**



7. In combination, a table having a wash tank, means to supply water to the tank, an overflow pipe in the tank, a drain connected with the pipe, a chute adjacent the tank for delivery to the drain, a breaking blade held above the tank and a tray removably supported over the tank beneath the blade.

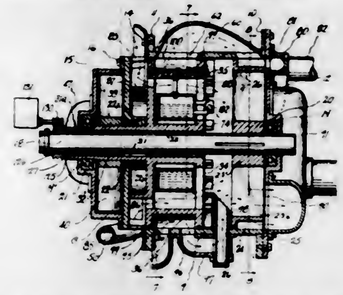
---

**2,389,631**
**AUTOMATIC AND SEMIAUTOMATIC CARBINE**
**Wiley T. Moore, United States Army, Laverne, Okla.**
**Application September 6, 1941, Serial No. 409,771**
**6 Claims. (Cl. 42—3)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In a firearm, a receiver, a breech bolt reciprocable in a fore and aft direction in the receiver, a striker, a sear pivotally mounted in the receiver and constructed and arranged to engage the striker, a trigger pivotally mounted in the receiver, a release lever pivotally mounted on the trigger and constructed and arranged to engage the sear, a depending movably mounted pawl on the breech bolt constructed and arranged to disengage the release lever from the sear as the bolt reciprocates rearwardly, a stop on the pawl limiting movement thereof in one direction, and spring means imposing yielding restraint upon movement in the other direction whereby the pawl rides over the release lever as the bolt reciprocates forwardly.

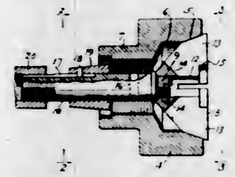
**2,389,632**
**INTERNAL-COMBUSTION ROTARY MOTOR**
**Henry Mossbach, Seattle, Wash.**
**Application July 6, 1943, Serial No. 493,634**
**16 Claims. (Cl. 60—41)**



16. In an engine, a housing, a wheel fitted rotatably in the housing and rotatable at a high rate of speed; said wheel having a circumferential row of gas conveying pockets, and said housing having a slot along which said pockets move for being charged with fuel gas, a fuel supply manifold overlying and extending along the slot, means for supplying a carbureted fuel mixture under pressure to the manifold through a side wall opening, and a suction connection opening into the manifold through its outside wall for direct reception of air or gas that is centrifugally discharged from the pockets as they come into registration with the slot.

---

**2,389,633**
**POT CHUCK COLLET**
**Leslie M. Odom and John H. Lambert, Los Angeles, Calif.**
**Application April 10, 1944, Serial No. 530,322**
**2 Claims. (Cl. 279—51)**

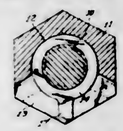


1. A pot chuck collet comprising in combination with a rotatable machine element, a pot chuck closer having an axial bore threaded for connection with said machine element, said chuck closer having a diametrally enlarged inwardly tapering annular wall, a shank extending through the axial bore of said chuck closer and provided at one end with threads and at the other end with a diametrally larger abutment and a reduced exteriorly threaded portion extending beyond said abutment, said shank having a longitudinal groove extending inwardly from the end thereof to a point intermediate the ends thereof, a pot chuck comprising a body adapted to engage the extended threaded portion of said shank, said body having resilient radial jaws extending outwardly therefrom and provided with faces complementary to said tapering wall, said jaws co-operating to define a central work receiving recess, a conical member adapted to be connected frictionally with said machine element and provided with a cylindrical bore through which said shank extends, said member forming the sole bearing for said shank and provided with a key disposed in the groove of said shank to lock said shank for rotation with said machine element, and a collet closer on the threaded end of said shank to effect movement of said shank and the opening and closing of said jaws.



---

**2,389,634**
**LOCK NUT**
**Ransom L. Park, Monmouth, Oreg.**
**Application December 23, 1941, Serial No. 424,107**
**10 Claims. (Cl. 151—15)**



1. A nut machined from a homogeneous solid block of metal and having an axially extending bore and an internal screw thread, said nut having end faces and side walls extending between said end faces, means defining an annular groove in said nut intermediate its ends, a slot extending through a side wall of the nut and communicating with said groove, and a ring mounted loosely in said groove and having an internal screw thread for threading on a bolt together with the nut, said ring being adapted to be rotated independently of the nut by means projecting through the slot for locking said nut on said bolt.

---

**2,389,635**
**FASTENER**
**Bion C. Place, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich.**
**Application July 15, 1943, Serial No. 494,878**
**3 Claims. (Cl. 85—5)**

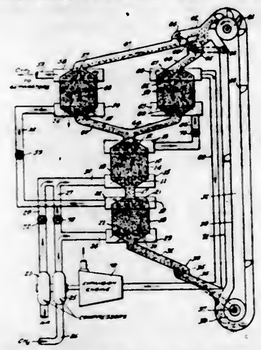


1. A one-piece wire headed spring stud fastener having an entering portion consisting in two outwardly bowed legs arranged to pass each other in scissors fashion at the end of said portion remote from the head, each of said legs having a wire end return-bent from said end of said entering portion toward said head and terminating laterally beyond said entering portion.

---

**2,389,636**
**CRACKING HYDROCARBON GASES AND VAPORS**
**Charles F. Ramseyer, Old Greenwich, Conn., assignor to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois**
**Application October 19, 1943, Serial No. 506,839**
**5 Claims. (Cl. 196—55)**

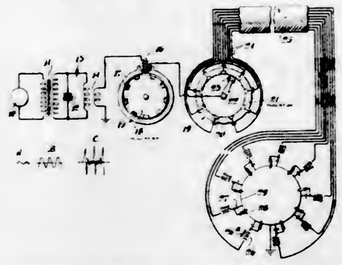
1. The continuous method of cracking hydrocarbon gases or vapors by contact with recycled hot elements, which comprises heating the elements in a heating zone, feeding the hot elements from the heating zone to a cracking zone countercurrently to a stream of the gas or vapor to be cracked, preheating the elements discharged from the cracking zone with the products of the



cracking operation, and returning the elements to the heating zone for reheating to repeat the cycle.

---

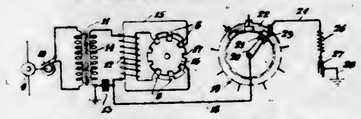
**2,389,637**
**HIGH FREQUENCY IGNITION SYSTEM**
**Samuel Ruben, New Rochelle, N. Y.**
**Application April 2, 1942, Serial No. 437,322**
**11 Claims. (Cl. 123—148)**



1. An ignition system comprising a source of oscillations, a plurality of series resonant lines each developing a high oscillating voltage in one section thereof, the remainder of each of said lines remaining at a lower voltage, a spark plug connected to the high voltage section of each line, and a variable impedance for bringing said lines individually into resonance with said oscillations in sequence.

---

**2,389,638**
**IGNITION SYSTEM**
**Samuel Ruben, New Rochelle, N. Y.**
**Application April 14, 1942, Serial No. 438,864**
**8 Claims. (Cl. 315—243)**

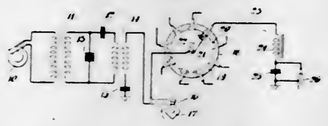


1. An ignition system for an internal combustion engine comprising a source of alternating current, a series resonant circuit fed thereby and having reactances therein comprising a capacitance and inductance in series, a spark distribu-

tor circuit connected to the common junction of said capacitance and inductance, and means for periodically varying one of said reactances to bring said resonant circuit periodically into resonance with said source of alternating current.

---

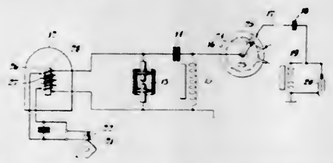
**2,389,639**
**IGNITION SYSTEM**
**Fred D. Williams, Jr., New Rochelle, N. Y., assignor to Samuel Ruben, New Rochelle, N. Y.**
**Application April 28, 1942, Serial No. 440,774**
**9 Claims. (Cl. 315—212)**



1. An ignition system comprising a source of oscillations and a spark distribution circuit coupled thereto, said distribution circuit comprising a common section which is coupled to said source and a plurality of individual sections containing individual spark plugs, and a distributor for connecting said common section to said individual sections in sequence, said individual and common sections having reactive oscillatory circuit elements therein and, when connected together, comprising a resonant circuit tuned to the frequency of said source.

---

**2,389,640**
**HIGH FREQUENCY IGNITION SYSTEM**
**Samuel Ruben, New Rochelle, N. Y.**
**Application June 13, 1942, Serial No. 446,853**
**4 Claims. (Cl. 315—177)**



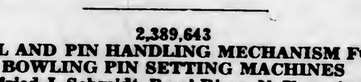
1. An ignition system for an internal combustion engine comprising a magneto, a tuned oscillatory spark gap circuit excited thereby, a current distribution circuit fed by said oscillatory circuit comprising a distributor and a plurality of individually tuned spark plug branch circuits tuned to the frequencies of said oscillatory spark gap circuit, each of said spark plug circuits including reactive resonant circuit elements and a spark plug connected between points of high resonant potential difference in said circuit.

---

**2,389,641**
**METHOD OF ADHERING RUBBERY MATERIAL TO SMOOTH SURFACES**
**Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y, a corporation of New York**
**Application February 6, 1941, Serial No. 377,686**
**9 Claims. (Cl. 154—2)**

1. A composite structure comprising a base member, and a body of rubbery material secured to the base member by an intermediate bonding means, said bonding means including a first primer coat containing finely-divided metal of a particle size between 0.5 and 45 microns with an average particle size of from 2 to 10 microns adhered to the base member and a second primer coat containing a finely-divided hard material of a particle size between 0.1 and 15 microns adhered to the first primer coat.

5. The method of making a composite structure which comprises securing a body of rubbery material to a base member by interposing be-




tween the base member and the rubbery material an intermediate bonding means, said bonding means including a first primer coat containing finely-divided metal of a particle size between 0.5 and 45 microns with an average particle size of from 2 to 10 microns adhered to the base member and a second primer coat containing a finely-divided hard material of a particle size between 0.1 and 15 microns adhered to the first primer coat.

---

**2,389,642**
**FOUR-WAY NOZZLE**
**John C. Schellin, Earl J. Housekeeper, and William H. Brubaker, Wooster, Ohio, assignors to The Wooster Brass Company, Wooster, Ohio, a corporation of Ohio**
**Application June 7, 1944, Serial No. 539,132**
**3 Claims. (Cl. 299—147)**

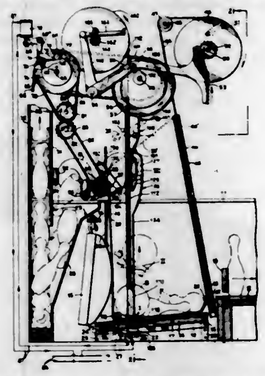


1. Nozzle construction including a hollow barrel open at both ends and having an exterior annular extension intermediate its ends provided with a circular series of holes extending longitudinally therethrough, a housing screwed on the inner end of said annular extension, a shut-off swiveled in said housing and adapted for closing the inner open end of said barrel, a sleeve adjustably secured on the outer end of said annular extension for longitudinal movement relative to the barrel and providing an annular spray outlet around the outer end of the barrel, cooperating means on said barrel and sleeve for providing a spray closure spaced from said spray outlet and within said sleeve, and means extending radially inward from said sleeve intermediate its ends slidably engaging said barrel for maintaining alignment between said sleeve and barrel.

---

**2,389,643**
**BALL AND PIN HANDLING MECHANISM FOR BOWLING PIN SETTING MACHINES**
**Gottfried J. Schmidt, Pearl River, N. Y., assignor, by mesne assignments, to Bowling Patents Management Corporation, New York, N. Y., a corporation of New York**
**Application January 1, 1942, Serial No. 425,318**
**20 Claims. (Cl. 273—43)**

1. A ball and pin elevator for a pin setting machine for use with an alley having a pit at one end thereof comprising, a pin receiving and lifting member extending transversely across said pit, a ball supporting and lifting frame positioned on said member, and means for imparting sep-



arate movements to said frame and member to raise balls and pins from said pit.

---

**2,389,644**
**STOCK STRAIGHTENER**
**Henry J. Shibovich, Chicago, Ill.**
**Application August 23, 1943, Serial No. 499,677**
**2 Claims. (Cl. 153—32)**

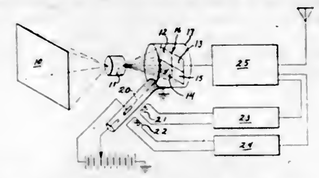


1. A device for straightening coiled metal tape as it is fed from a roll, comprising an elongated strip-like arm, means to secure one end of said arm to a support so that the arm extends from the support to a point near the roll of tape in the same general direction as that in which the tape is fed, said arm having a longitudinally and upwardly arched free end portion provided with a pair of transverse openings spaced longitudinally of the arm, a flat substantially horizontal guide carried by the arm beneath one opening and extending toward the other opening, and a former attached to the underside of the arm between said openings and arranged to press upon and reversely bend the tape in advance of the guide as said tape passes from the roll downwardly through said other opening then under the former and then over and parallel with said guide and through said one opening in a straight substantially horizontal path.

---

**2,389,645**
**TELEVISION SYSTEM**
**George E. Sleeper, Jr., Berkeley, Calif.**
**Application February 5, 1943, Serial No. 474,787**
**4 Claims. (Cl. 178—5.2)**

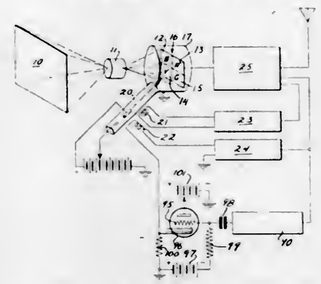
1. In combination with an electronic scanning device having a photoelectric screen and a single electron beam for scanning said screen, an optical system interposed between said device and the object, said optical system including means for producing a plurality of images of the object, color filters associated with said means, one filter for each image, and means to project the color



images on said screen, each of said color images being located on a separate area of said screen.

---

**2,389,646**
**TELEVISION SYSTEM**
**George E. Sleeper, Jr., Berkeley, Calif.**
**Application August 30, 1943, Serial No. 500,518**
**12 Claims. (Cl. 178—5.2)**



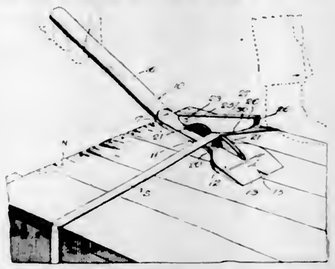
1. The method of reproducing a picture of an object by television which comprises, producing a plurality of images of said object, arranging said images in a group, electronically scanning said group of images as a single picture with a single electron beam, transmitting the signals derived from said scanning, reproducing a group of images from said signals, and optically interlacing the lines of the reproduced images to produce a composite picture of the object.

---

**2,389,647**
**CHEMICAL PROCESS AND PRODUCT**
**Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application October 17, 1942, Serial No. 462,412**
**9 Claims. (Cl. 260—680)**

1. In a process for separating butadiene in more concentrated form from a mixture containing the same, in which said mixture is contacted in liquid phase with a reagent comprised of a solid dry monovalent salt of a metal selected from the group consisting of copper, mercury and silver, said contact taking place in a substantially non-aqueous system and under conditions of temperature and pressure such as to form an association product of said salt and said butadiene, in which non-butadiene material is removed from said association product, and in which said association product is thereafter dissociated to recover said butadiene in more concentrated form, the improvement which comprises employing in said process a molar ratio of reagent salt to total butadiene present of at least 2.5 to 1.

**2,389,648**
**CONTAINER-OPENING TOOL**
**Charles E. Stafford, Mira Loma, Calif.**
**Application February 19, 1944, Serial No. 523,170**
**4 Claims. (Cl. 30—151)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



3. A container-opening tool including a flat base having a widened front portion to provide a relatively wide entrance and fulcrum edge, an elongated knife extending along the base and disposed perpendicularly upwardly from the base and having a cutting edge extending rearwardly and upwardly from said base, and a manipulating handle extending rearwardly from the rear portion of the base and inclined upwardly at an angle thereto.

---

**2,389,649**
**VARIABLE INTENSITY LIGHT SIGNALING APPARATUS**
**Rawson E. Stark and Donald E. Stark, Greensburg, Pa., assignors to Stupakoff Ceramic & Manufacturing Co., a corporation of Pennsylvania**
**Application June 15, 1942, Serial No. 447,072**
**5 Claims. (Cl. 250—7)**

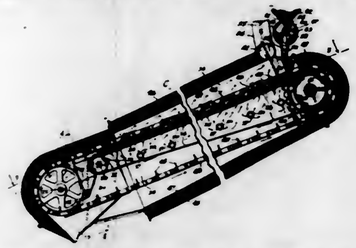


1. Apparatus of the class described comprising a light-emitting unit which is exposed to the air, a circuit including a source of power for operating said unit, and means for impressing a signal on said circuit to modulate the light emitted by said unit, said light-emitting unit being a conductor of the second class, said conductor of the second class being a ceramic composition which is an insulator at normal temperatures and which becomes a conductor at elevated temperatures.

---

**2,389,650**
**APPARATUS FOR ROASTING COFFEE AND THE LIKE**
**Thomas J. Stephens, New York, N. Y., assignor to Frederick W. Ludwig, as trustee for the benefit of Thomas J. Stephens, Henry A. Rudkin, and Frederick W. Ludwig**
**Application August 7, 1942, Serial No. 454,062**
**10 Claims. (Cl. 34—67)**

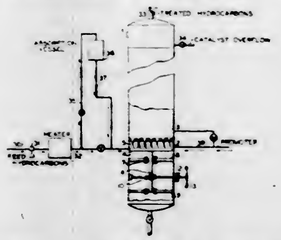
1. An apparatus for roasting granular materials such as coffee, nuts, beans or grains, comprising an endless woven wire band, pulleys supporting said band in an inclined position, means for feeding granular material onto said band at its upper limit, means for rotating one of said pulleys in a direction to cause the upper run of said band to travel upwardly of said incline, a series of mutually spaced transverse flights, means for causing said flights to travel in proximity to the upper run of said band and in a direction downwardly of said incline, each of said



flights including a substantially rigid element of a width, height and solidity to force any granular material disposed on said band in front of such element downwardly of said incline for discharge from said band to the lower end of said upper run, and means for applying heat to granular material carried upon said band.

---

**2,389,651**
**PROCESS FOR CATALYTICALLY CONVERTING HYDROCARBONS BY THE ACTION OF LIQUID ALUMINUM HALIDE-HYDROCARBON COMPLEX**
**Lynn R. Strawn, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application April 17, 1943, Serial No. 483,440**
**4 Claims. (Cl. 260—683.5)**



1. A process for catalytically converting hydrocarbons by the action of liquid aluminum halide-hydrocarbon complex conversion catalyst maintained in the presence of hydrogen halide under conversion conditions which comprises maintaining a substantially static column of liquid aluminum halide-hydrocarbon complex catalyst in a reaction tower, said complex having a heat of hydrolysis in the range 200 to 400 calories per gram of complex introducing feed hydrocarbons in liquid phase to the lower portion of said catalyst column, dispersing the introduced feed hydrocarbons uniformly within and over substantially the entire cross-sectional area in the lower portion of said column in liquid droplets ranging from about 1/64 to 1/4 inch in diameter, said droplets rising through the catalyst in the presence of hydrogen halide by difference in density, maintaining said droplets in transit through the catalyst liquid for not more than about 1 to 10 minutes and thereafter withdrawing the hydrocarbons from further contact with the catalyst.

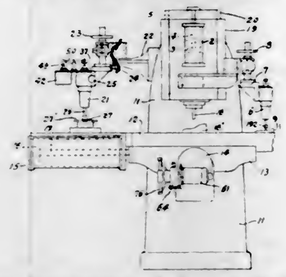


**2,389,652**
**METHOD OF EXTINGUISHING FIRES AND FLUID USED THEREIN**
**Lewis G. Morris Timpson, Plainfield, N. J.**
**No Drawing. Application July 23, 1943, Serial No. 495,952**
**6 Claims. (Cl. 252—8)**

6. A vapor forming, fire-extinguishing liquid comprising as principal effective ingredients 2½ to 15% methylbromide, a major proportion ethylbromide and sufficient ethylene chloro bromide to reduce the vapor pressure at 70 degrees F. to less than 25 pounds per square inch above atmospheric pressure.

---

**2,389,653**
**HYDRAULIC DUPLICATING MECHANISM AND DIRECTIONAL CONTROL**
**Manuel Turchan, Dearborn, and Curtis Walker, Detroit, Mich.**
**Application July 26, 1943, Serial No. 496,240**
**41 Claims. (Cl. 90—13.5)**

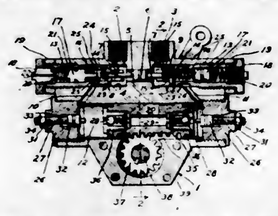


1. The combination with a cutter and work support relatively movable transversely in two directions; of a tracer engageable with a templet for controlling relative movement in one direction of said work support; a constant fluid pressure source controlling relative movement in a second direction; a safety exhaust mechanism within said tracer for limiting relative movement in said second direction; a directional control valve for regulating said relative transverse movements, and adapted to transfer tracer control from one transverse movement to the other, and change the constant fluid pressure source from one transverse movement to the other, and at the same time switching said safety mechanism from one transverse movement to the other, and means joining said tracer with said directional control valve for causing automatic adjustments of the latter.

---

**2,389,654**
**HYDRAULIC MOTOR UNIT**
**Jacob B. Van Der Werff, Pasadena, Calif., assignor to Adel Precision Products Corp., a corporation of California**
**Original application June 23, 1942, Serial No. 448,102, now Patent No. 2,359,949, dated October 10, 1944. Divided and this application February 8, 1944, Serial No. 521,743**
**3 Claims. (Cl. 60—54.6)**

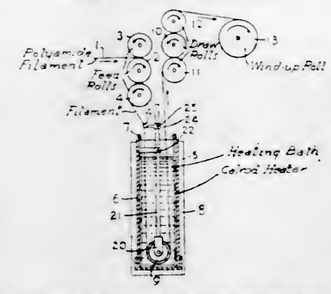
1. A hydraulic motor unit subject to remote control, including a body member, a hydraulic cylinder associated with said body member, a reciprocable piston in said cylinder, a drive means responsive to movement of said piston and adapted for connection with an element or device to be controlled by said motor unit, said body member having ports adapted for connection with a source of operating fluid and provided with passages leading from said ports to opposite ends of said cylinder, valves for controlling said passages arranged to be closed in the direction of the flow of return fluid from said cylinder and to be opened responsive to the pressure of the operating fluid whereby upon cessation of flow of operating fluid the piston will be hydraulically



locked against movement, fluid responsive means movable in said body member for opening one of the valves simultaneously with the fluid effected opening of the other of said valves, fluid expansion chambers in said unit connected with said passages at points between said valves and said cylinder, and means in said chambers yieldingly opposing the fluid pressures in them.

---

**2,389,655**
**POLYAMIDE ARTICLES**
**Charles W. J. Wende, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application October 13, 1941, Serial No. 414,846**
**10 Claims. (Cl. 18—54)**



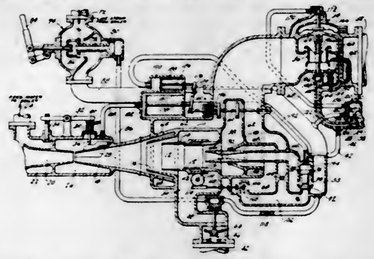

1. A process for obtaining synthetic linear polyamide articles of improved properties which comprises drying the polyamide article to a moisture content below 0.7% by weight of the polyamide, and then heating the dried polyamide article above 120° C. but below the melting point of the polyamide while the polyamide is under sufficient tension to prevent retraction.

---

**2,389,656**
**INJECTOR**
**Arthur Williams, Munster, Ind., and Erich Henkel, Calumet City, Ill., assignors to The Superheater Company, New York, N. Y.**
**Application February 27, 1942, Serial No. 432,620**
**18 Claims. (Cl. 103—265)**

1. In an exhaust steam injector having an overflow chamber, a nozzle system for creating and maintaining a jet in the injector including a main low pressure steam nozzle, and means for admitting exhaust steam to said nozzle, said

means comprising a valve for controlling the flow of exhaust steam and valve actuating means responsive to overflow pressure and to a pressure indicative of and varying with the pressure



against which the injector delivers, said valve actuating means being constructed and arranged to position said valve in accordance with the differential pressure between said overflow and said indicative delivery pressures.

---

**2,389,657**
**METHOD OF MAKING CEMENTED PILE CARPET**

**Harold P. Faris, Philadelphia, Pa., and John E. White, Trenton, N. J., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware**

**Original application July 20, 1942, Serial No. 451,626, now Patent No. 2,338,499, dated January 4, 1944. Divided and this application July 6, 1943, Serial No. 493,666**

**3 Claims. (Cl. 117—33)**



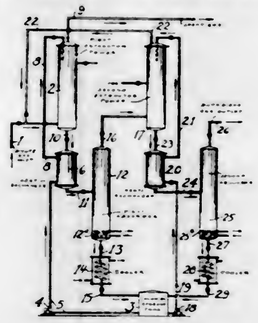
1. The method of making a cemented pile carpet, comprising the steps of covering advancing sheet material with an adhesive substance, projecting a batch of fibers onto the adhesive covering while vibrators are moved back and forth lengthwise of the underside of said material to cause a substantial proportion of said fibers to imbed themselves substantially uniformly in said adhesive covering and thereby produce a substantially uniform initial pile formation, withdrawing loose and excess fibers from said initial formation, again vibrating the advancing material to cause the fibers of the initial formation to be imbedded farther into the covering and simultaneously projecting a second batch of fibers onto the adhesive covering while the material is being vibrated again as aforesaid to cause a substantial proportion of the second batch of fibers to be imbedded in the covering to make the initial formation denser, withdrawing loose and excess fibers from the denser formation while the advancing material is vibrated again as aforesaid, continuing the vibration of the advancing material to cause the fibers of the denser formation to be imbedded farther into the covering and simultaneously projecting a third batch of fibers onto the adhesive covering while the vibration of the material is continued to cause a substantial proportion of the third batch of fibers to be imbedded in the covering to complete the pile formation, withdrawing loose and excess fibers from the complete formation, and again vibrating the advancing material to cause the fibers of the complete formation to be imbedded farther into the adhesive covering.

**2,389,658**
**EXTRACTION OF BUTADIENE**

**Egi V. Fasce and Louis E. Pirkle, Baton Rouge, La., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana**

**Application October 31, 1939, Serial No. 302,084**

**2 Claims. (Cl. 260—681.5)**



1. A continuous method of segregating and concentrating butadiene which comprises contacting a hydrocarbon fraction containing 4 carbon atoms to the molecule and butadiene with a cuprous chloride solution consisting of 16.7% cuprous chloride, 50% formamide, 12% hydrochloric acid and 21.3% water, separating the cuprous chloride solution with butadiene dissolved therein, subjecting said cuprous chloride solution to heat to expel the butadiene, contacting the expelled butadiene with another cuprous chloride solution of the same composition, separating the said cuprous chloride solution and recovering the butadiene dissolved therein by subjecting to heat.

---

**2,389,659**
**PROCESSING OF HYDROCARBONS**

**Eric William Musther Fawcett and Eric Sylvester Narracott, Sunbury on Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock company**

**No Drawing. Application May 21, 1942, Serial No. 443,980. In Great Britain April 7, 1941**

**9 Claims. (Cl. 260—683.5)**

1. A process which comprises isomerizing at least one normal paraffin containing at least four carbon atoms per molecule in the vapor phase at a temperature between 50° and 300° C. and superatmospheric temperature while in contact with an aluminum halide and in the substantial continuous presence of a compound of the type RSH wherein R is selected from the group consisting of alkyl and hydrogen.

---

**2,389,660**
**ISOMERIZATION PROCESS**

**Eric William Musther Fawcett and Eric Sylvester Narracott, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation**

**No Drawing. Application February 9, 1943, Serial No. 475,278. In Great Britain April 7, 1941**

**4 Claims. (Cl. 260—683.5)**

2. A process which comprises isomerizing at least one normal paraffin containing at least four carbon atoms per molecule under isomerization reaction conditions and under superatmospheric temperatures and pressures, in the vapor phase, in continuing contact with aluminum chloride and between about 0.5 and about 5 weight per cent of hydrogen sulfide based on the normal paraffin feed.

---

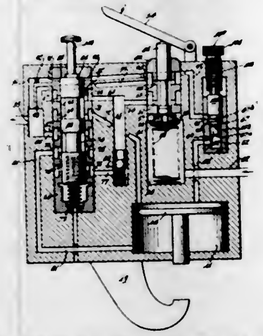


**2,389,661**
**COMPRESSION RIVETER**

**Howard R. Fischer, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey**

**Application August 2, 1940, Serial No. 349,820**

**2 Claims. (Cl. 121—38)**



1. In a device of the class described, the combination of a pressure fluid distributing system including a pressure chamber, a distributing valve settable to a plurality of positions to control the flow of pressure fluid through said system, a passageway for conducting pressure fluid from said pressure chamber to said distributing valve in a direction to shift said valve from one to another of its set positions, means normally preventing the flow of pressure fluid through said passageway and movable in response to the force of accumulated pressure within said chamber to an open position with respect to said passageway, and means controlled by said distributing valve for applying simultaneously a holding pressure on said valve to retain it in shifted position and a return pressure on said pressure responsive means to return said means to closed position.

---

**2,389,662**
**POLYMERS**

**Norman Gail Fisher and Richard Haven Wiley, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application September 3, 1942, Serial No. 457,144**

**1 Claim. (Cl. 260—63)**

The synthetic linear condensation polymeric spirothioketal of tetrakis(mercaptomethyl) methane and cyclohexanedione-1,4.

---

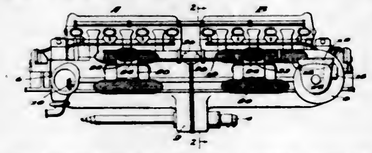
**2,389,663**
**MARINE POWER UNIT**

**Archibald Graham Forsyth, Cheam, England, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England**

**Application May 16, 1942, Serial No. 443,230**

**8 Claims. (Cl. 115—37)**

8. A marine propulsion system for torpedo boats and the like, comprising two internal combustion engine units joined end to end with a gear housing therebetween, each of said units having at least one opening on the sides of the crankcases adjacent the rear ends of the crankshafts of said units, a supercharger detachably secured over one of said openings on one of said units, a cover detachably secured over the other of said openings on the other of said units, each



of said units comprising two internal combustion engines with the crankshafts of said engines disposed within a common crankcase, the ends of said crankshafts extending within said gear housing, a pair of concentrically disposed propeller drive shafts, and gear means within said housing connecting the crankshafts of one unit with one of said shafts and the crankshafts of the other unit with the other of said shafts.

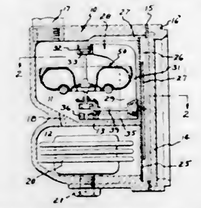
---

**2,389,664**
**MAGNETIC COMPASS**

**Gabriel M. Giannini, West Los Angeles, Calif., assignor, by mesne assignments, to A. S. Howe, Jr., South Norwalk, Conn.**

**Application August 20, 1943, Serial No. 499,347**

**11 Claims. (Cl. 33—223)**



1. In magnetic compasses of the liquid immersed type which include a rotatable magnetic system and an enclosing liquid containing case in which the magnetic system is rotatably mounted, the improvement which is characterized by a partition dividing the case interior into two chambers, a normally vertical mounting shaft rotatably journalled on an axis fixed in one chamber, means whereby the magnetic system is supported on said shaft and connected to said shaft with regard to rotational movement, a damping shaft positively rotatably coupled with the mounting shaft, journalled in the case on a normally horizontal axis and projecting into the other of the two chambers, and a rotatable liquid-immersed damping element mounted on the damping shaft in said other chamber.

---

**2,389,665**
**ELECTRIC NAIL FILER**

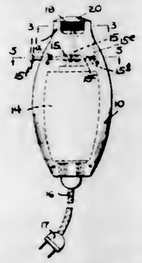
**Hyman Harris, New York, N. Y.**

**Application October 7, 1944, Serial No. 557,666**

**4 Claims. (Cl. 132—75.8)**

1. A nail filer, comprising a casing adapted to fit into the palm of one's hand and having a flange-like top portion formed with a cylindrical opening extended inwards from its top end and extending from the front to the back of said

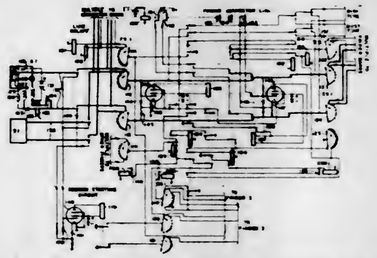
flange forming open sides, a driven shaft extending coaxially of said cylindrical opening, a grinding wheel mounted on said shaft and located in said cylindrical opening and extending out of the open sides thereof, and a shell-like



cover mounted on said flange-like top portion and having a cylindrically shaped skirt wall extending into and frictionally engaging the walls of said cylindrical opening and furthermore having open sides through which said grinding wheel extends.

---

**2,389,666**
**TELEPHONE SYSTEM**
**Roswell H. Herrick, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application March 17, 1944, Serial No. 526,871**
**17 Claims. (Cl. 179—18)**

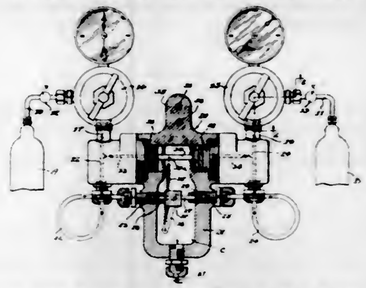


1. In an automatic telephone exchange system, telephone lines entering the exchange, local battery telephone substations on each one of said lines, each provided with a local battery arranged to energise the transmitter thereat, circuit arrangements for setting up a current flow from the local battery at a calling substation over the associated line to the automatic exchange solely by the removal of the receiver from the hook-switch, automatic switches in the exchange, and means responsive to said current flow to effect a connection between a calling line and an automatic switch in the exchange.

---

**2,389,667**
**FLUID VALVE CONTROL**
**James L. Hudson, Detroit, Mich.**
**Application December 30, 1943, Serial No. 516,172**
**3 Claims. (Cl. 222—6)**

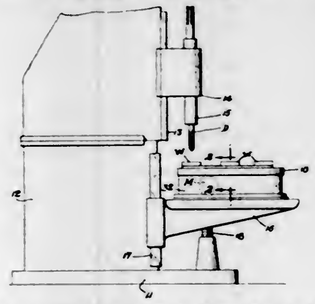
1. For use in a gas supply system, having a plurality of high pressure containers, a housing having a plurality of inlets and a common outlet and provided with a chamber, slide means transverse of said chamber, pressure responsive means at each end of said slide exposed on one side to pressure at an inlet, opposed ports in said chamber walls, each arranged to connect an inlet with the outlet, valve means slidable across said chamber to close each of said ports alternately, and



spring means operably connecting said slide and said valve means whereby a pressure differential between said inlet ports will cause shifting of the valve to open the port connected to the highest pressure inlet.

---

**2,389,668**
**INDEXING MECHANISM FOR MACHINE TABLES**
**Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois**
**Application March 4, 1943, Serial No. 477,941**
**9 Claims. (Cl. 77—64)**



9. The combination with a shiftable work supporting table, of mechanism for indexing the table comprising, a reversible electric motor connected for driving the table, switch means operable to start the motor for driving the table in one direction, means operative in response to the movement of the table through a predetermined distance for reversing the motor to thereby initiate the driving of the table in the opposite direction, and means actuated by the motor after a predetermined interval of reverse operation for stopping the motor.

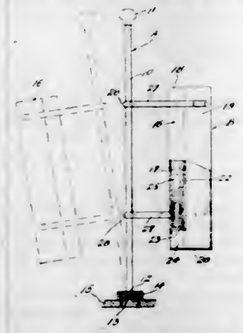
---

**2,389,669**
**HONEY EXTRACTOR**
**Walter T. Kelley, Paducah, Ky.**
**Application June 23, 1944, Serial No. 541,841**
**1 Claim. (Cl. 210—65)**

A device for centrifugally extracting honey from combs, comprising a shaft having means at one end by which it may be grasped in the hand for the swinging of the upper end around the



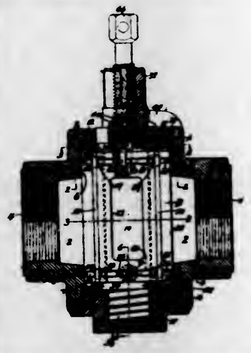
center of the lower end of the shaft resting upon a suitable support, a relatively long receptacle disposed longitudinally of the shaft, means connecting the receptacle with the shaft for maintaining the receptacle spaced outwardly therefrom, said receptacle comprising a vertical wall disposed adjacent to the shaft, relatively narrow side walls extending outwardly from the longitudinal edges of the first wall and two convergently related front wall sections extending from the side walls and joined together to form a V-shaped channel extending longitudinally of the



receptacle, the receptacle having a bottom wall connected with the other walls, and means for maintaining a plurality of honeycombs one above the other on edge within the receptacle between the narrow side walls, comprising a foraminous wall extending from the top of the receptacle longitudinally therethrough to and terminating short of the bottom wall and connected between the forward edges of the side walls, and a closure wall between the lower edge of the foraminous wall and the first mentioned wall and spaced from the receptacle bottom wall.

---

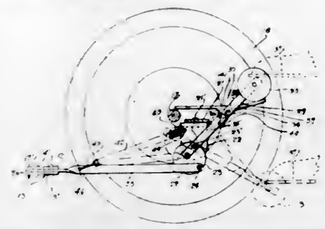
**2,389,670**
**LUBRICATED WEDGE SEAL VALVE**
**William Kerr, Roseville, and William G. Stolberg, Detroit, Mich., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application October 21, 1943, Serial No. 507,128**
**11 Claims. (Cl. 251—93)**



1. In a lubricated valve, a body member having a passageway therethrough, a plug member rotatably mounted in the body member and having a passageway therethrough adapted to register with the body passageway when the valve is in open position, seating surfaces formed on said plug member and in said body member, grooves interrupting the seating surface of one of said members and located in planes which also include the axis of said plug member, wedges located in said grooves and of a thickness less than the depth of the grooves to thereby provide spaces between the wedges and the base of the grooves, said wedges and grooves being so constructed and arranged as to lock said wedges in said grooves by relative axial movement, and means to force lubricant under pressure into said spaces to thereby force the wedges into sealing engagement with the seating surfaces of the adjacent member.

---

**2,389,671**
**BRAKE MECHANISM FOR BABY CARRIAGES**
**Samuel Kroll and Nathan J. Kroll, Chicago, Ill.**
**Application June 26, 1944, Serial No. 542,124**
**4 Claims. (Cl. 188—20)**



1. Brake mechanism for a wheel-bearing chassis in which there is a transversely extending brake rod and a mounting bar, comprising a supporting bracket carried by the mounting bar, a disc rotatably supported by the bracket, a foot-operated lever for rotating said disc in one direction, a connection between the disc and the brake rod, latch means carried by the foot lever and adapted to have latched engagement with the mounting bar, said latch means having a portion adapted to be engaged by the toe of an operator to pivot the latch means from engagement with said mounting bar, and means for effecting rotation of said disc in an opposite direction when said latch means is disengaged from said mounting bar.

---

**2,389,672**
**CONDENSATE DEFLECTOR FOR BOTTLE FILLERS**
**Adolph J. Lippold, Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation**
**Application March 25, 1940, Serial No. 325,681**
**1 Claim. (Cl. 226—129)**

A bottle filling machine comprising, in combination, a supply reservoir rotatable about a vertical axis, a series of radially disposed bottle filling means having bottle engaging portions and depending from the lower wall of said reservoir and communicating therewith through apertures in said wall adjacent the outer periphery thereof, a downwardly directed rib in said lower wall circumscribing said bottle filling means, means for moving a bottle into filling position below said reservoir under said filling means, means for withdrawing a bottle from said filling position, and a condensate deflecting element carried by said filling means adjacent the bottle engaging portions

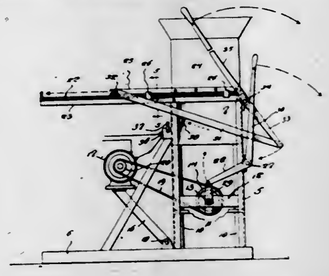
thereof, said condensate deflecting element being trapezoidal in shape and having its principal axis radially directed with respect to said reservoir and having its apex portion inwardly directed toward the axis about which said reservoir revolves, the base portion of said condensate deflecting ele-



ment extending outwardly below said downwardly directed rib of said reservoir wall and having the ends of said base portion so arranged as to overlap the entire path of travel of a container as it is moved into filling position and as it is being withdrawn from filling position below said reservoir.

---

**2,389,673**
**BLOCK MOLDING MACHINE**
**Herman L. Lofdahl, Klamath Falls, Oreg.**
**Application April 17, 1945, Serial No. 588,777**
**5 Claims. (Cl. 25—41)**

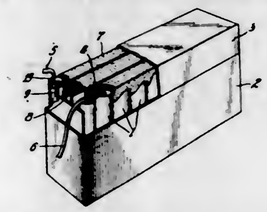


1. A machine for making hollow blocks, including, in combination, a mold box, vertically movable stripper means operable in the mold box, motor operated means for rapidly vibrating said stripper means vertically, and manually operable means to elevate said stripper means to eject the block from the mold box.

---

**2,389,674**
**METHOD OF MAKING DRY BATTERIES**
**Allison M. MacFarland, Freeport, Ill., assignor to Burgess Battery Company, Chicago, Ill., a corporation of Delaware**
**Application April 30, 1941, Serial No. 391,109**
**8 Claims. (Cl. 136—175)**

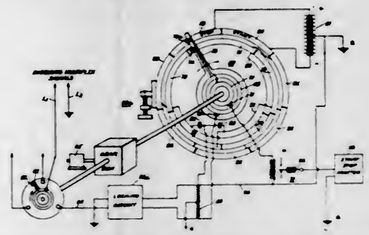
1. The method of sealing dry cells of the type including a metal tube having at least one end open and concurrently forming an expansion chamber at an open end of the tube, said tube having a jacket of elastic inert film material around the tube and extending beyond the open end of said tube, said method comprising lower-



ing the jacketed cell with the open end of the tube foremost into a body of fluid sealing material until the end of the jacket is submerged therein.

---

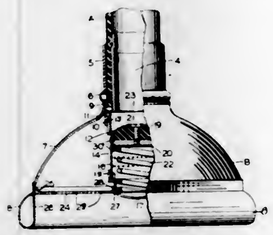
**2,389,675**
**CONVERSION OF SYNCHRONOUS TYPE SIGNALS TO START STOP SIGNALS**
**Richard E. Mathes, Silver Spring, Md., assignor to Radio Corporation of America, a corporation of Delaware**
**Original application November 26, 1942, Serial No. 467,030. Divided and this application January 31, 1944, Serial No. 520,452**
**2 Claims. (Cl. 178—70)**



1. In apparatus for converting to start-stop signals the synchronous code unit signals received over a single channel from a composite channel of a time division multiplex system, a series of segments containing one segment for each synchronous code unit signal, a second series of segments having one segment for each synchronous code unit signal and also for a start and a stop signal, a connection between each segment of the first series and a separate one of the segments of the second series, a connection between the remaining start and stop segments to different potentials in the source of supply, a condenser having one terminal connected to alternate segments of the first series, a second condenser having one terminal connected to the remaining segments of the first series, a line relay having a coil with one terminal connected to an intermediate potential in the source of supply, a signal output device connected to said single channel having one terminal connected to the remaining terminals of said condensers, means for connecting the other terminal of said output device in succession to the segments of the first series in synchronism with the assignment of said composite channel to the single channel and means running synchronously with the first-mentioned means for connecting the segments of the second series in succession to the coil of said relay.



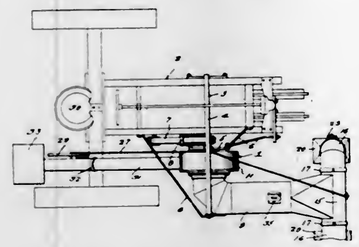
**2,389,676**
**NONSIPHON SHAMPOO SPRAY HEAD**
**James N. Mayhew, Los Angeles, Calif.**
**Application November 4, 1944, Serial No. 561,978**
**4 Claims. (Cl. 299—73)**



1. In a spray-head, a casing, a water-conveying conduit communicating therewith, a perforated diaphragm for the casing, and means for flexing the diaphragm for directing water flowing therethrough into converging or diverging streams, said means including a cylindrical perforated member, a spring-pressed valve slidable in said member, said valve being adapted to close the conduit when the pressure of the water flowing through the conduit drops below a predetermined point.

---

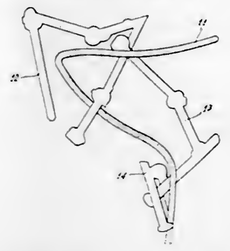
**2,389,677**
**BOLL WEEVIL EXTERMINATING MACHINE**
**Gadi L. McCay, Utica, Miss.**
**Application June 30, 1942, Serial No. 449,144**
**2 Claims. (Cl. 43—140)**



1. A boll weevil exterminating attachment for a motor vehicle provided with a rear driver's seat and having a power-driven shaft extending to one side thereof, comprising a centrifugal suction fan, means to rigidly mount said fan on the vehicle at said side and forwardly of and above said shaft, said fan having an inlet at the outer side thereof and a drive shaft projecting at the inner side of the same, means to provide a driving connection between said shafts, a vertically swingable suction conduit having a lateral rear end swiveled to the side inlet of the fan and provided at its forward end with a depending intake conduit arranged to be located in front of the vehicle and provided with a bottom intake hood, said intake conduit being adjustable in length to regulate the distance of the intake hood from the ground, means to releasably retain the intake conduit in any adjusted position, means arranged for operation from the driver's seat and connected to the forward end of the suction conduit for adjustably swinging the latter up or down and correspondingly raising or lowering the intake conduit and its hood, a discharge pipe extending rearwardly from the fan, and an insect collection receptacle on the rear end of said discharge pipe.

---

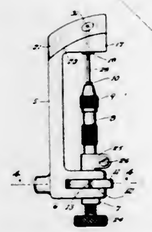
**2,389,678**
**POWDER FIBER SHEET**
**Edwin Joseph Merrell, Eastchester, N. Y., assignor to Phelps Dodge Copper Products Corporation, Dover, Del., a corporation of Delaware**
**Application February 5, 1943, Serial No. 474,885**
**1 Claim. (Cl. 92—3)**



A high porosity flexible sheet of high tensile strength comprising a fiber mesh in combination with 37 to 51% by weight of a powder having a lattice skeletal crystallite structure, the fiber mesh being formed of undercooked sulphate wood pulp beaten to a slowness of 300 to 500 cubic centimeters, and the powder being submicroscopic silicon carbide.

---

**2,389,679**
**DRILL SHARPENING DEVICE**
**Julius Michelson, West Hartford, Conn.**
**Application February 14, 1944, Serial No. 522,215**
**3 Claims. (Cl. 51—219)**



1. A device of the character described comprising a frame having a bearing portion, a spindle rotatably mounted in said bearing portion, locating means including an annular member secured to said spindle and rotatable therewith, a detent engageable with said locating member for positioning and retaining the same in different positions, means on said spindle for holding a drill or reamer, a guide portion on said frame, a guide surface on said guide portion disposed at the angle to which the cutting edges of said drill or reamer are to be sharpened, and means in said guide portion for positioning the end of said drill or reamer with relation to said surface and at an intermediate point thereof.

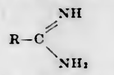
2,389,680
**BLENDING AGENTS FOR ASPHALTS**
**Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
No Drawing. Application December 15, 1942, Serial No. 469,139
7 Claims. (Cl. 106—281)

4. An improved bonding bituminous material which comprises an asphalt containing from 0.1% to 1.0% of an amino alkylamide of a carboxylic acid.

---

2,389,681
**ASPHALT WETTING AGENTS**
**Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
No Drawing. Application December 15, 1942, Serial No. 469,141
5 Claims. (Cl. 106—281)

5. An improved bituminous bonding composition comprising a bituminous material, a solid mineral aggregate and 0.1% to 1.0% of an alkyl amidine, represented by the formula



in which R stands for a member of the group consisting of a saturated and an unsaturated alkyl group having 10 to 23 carbon atoms inclusive.

---

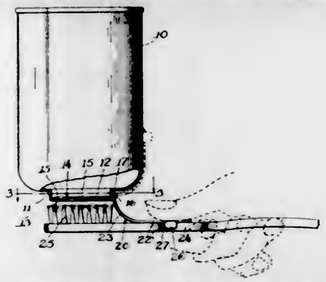
2,389,682
**KETONE-UREA-FORMALDEHYDE CONDENSATION PRODUCTS**
**Walter Nebel, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
No Drawing. Application October 17, 1940, Serial No. 361,577
9 Claims. (Cl. 260—42)

1. The process of preparing a solution of a resinous intercondensation product which comprises condensing a mixture of 1 part of dimethylol urea with between about 0.1 and 8 parts of methylol ketone in the presence of an acidic catalyst and a lower aliphatic monohydric alcohol which is present in excess of the theoretical chemical equivalent of the methylol groups with which the monohydric alcohol reacts, said methylol ketone comprising the reaction product of 1 mol of formaldehyde with between about 1 and 0.5 mols of a mono-ketone selected from the group consisting of methyl-alkyl ketone wherein the alkyl radical contains less than 6 carbon atoms and cyclohexanone.

---

2,389,683
**TOOTH POWDER AND PASTE DISPENSER**
**John H. Page, Muskegon, Mich.**
Application January 22, 1944, Serial No. 519,250
2 Claims. (Cl. 222—126)

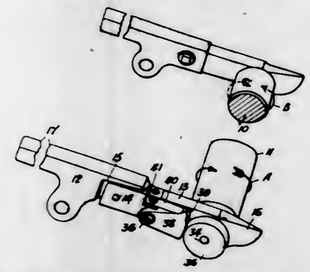
1. In combination with a container for dentifrice or the like, having a dispensing orifice and a closure member therefor, a positioning member having hinged connection with said closure member, including an extended bearing portion adapted in one position to be folded against the side of said container, and in a second position to be disposed at a predetermined angular relation remote from said dispensing orifice, and adapted to be positioned in registering flatwise engagement with the handle of a tooth brush so that said bearing portion and the tooth brush handle may be clasped together by the hand to support the head of said brush in material-receiving relation to



said dispensing orifice while actuating said closure member, by the hand which is also holding the brush handle.

---

2,389,684
**CLEARER AS USED IN COMBING MACHINES OR OTHER MACHINES FOR THE TREATMENT OF TEXTILE FIBERS**
**Donald Pierrepont, Chadderton, Oldham, England**
Application October 27, 1943, Serial No. 507,809
In Great Britain September 9, 1942
6 Claims. (Cl. 19—116)

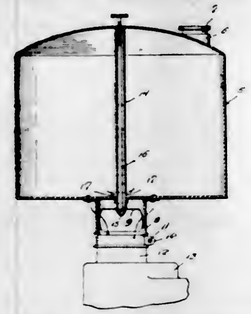


1. A revolving clearer for textile combing machines having a detaching roller, including a pair of co-axially pivoted bearer arms, a covered clearer roller element adapted to engage the detaching roller of the combing machine to remove waste fibers and having an axle element rotatably mounted in said arms, one of said elements presenting a continuous surface of revolution, and loaded one-way acting frictional means sustained by at least one of said arms and engageable with said surface of revolution, said frictional means acting to impose frictional resistance to rotary movement of said clearer roller element in one direction and to permit silent rotation of said clearer roller element in the opposite direction.

---

2,389,685
**EMERGENCY GASOLINE TANK**
**Wickliffe H. Pike, Warren, Pa.**
Application May 2, 1944, Serial No. 533,797
1 Claim. (Cl. 158—46.5)

A portable emergency gasoline tank for automobiles, comprising a tank, an outlet neck secured to the bottom of said tank, said outlet having an air port in the side wall thereof, and having a split portion adapted to receive and grip a portion of an automobile engine carburetor after the removal of an air filter therefrom, a tube in said tank, said tube extending into said outlet neck and terminating in a seat adjacent said air port,

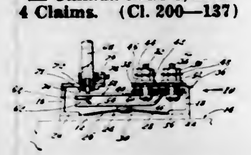


said tube having ports communicating with the interior of said tank, and a needle valve threaded to the tank and extending into the tube to cooperate with said seat for regulating the flow of gasoline from the tank into the carburetor and for cutting off the flow when desired.

---



2,389,686
**THERMOSTAT**
**Frank Reingruber and Joseph Reingruber, New York, N. Y.**
Application March 20, 1943, Serial No. 479,860
In Canada June 5, 1942
4 Claims. (Cl. 200—137)

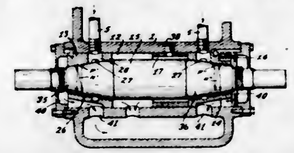


1. In a thermostat, an enclosing housing comprising a pair of spaced supporting brackets, each bracket having an inturned flange, each flange spaced from the other flange, a bar having a relatively high coefficient of expansion, the bar secured at one end to one flange and at the other end to the other flange, a spring-like member bent at the center and spaced thereat from the bar to form straight unbent legs extending therefrom to the bar, said member having a low coefficient of expansion and sprung between the flanges and a switch tensioned against the member, each said leg arranged in communication at the end thereof with the bar, each leg thereby adapted to move with the bar against the adjacent flange, upon the expansion and contraction thereof to open and close the switch.

---

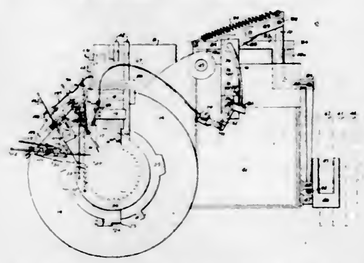
2,389,687
**BEARING**
**Alfred Rickenmann, Zurich, Switzerland**
Application March 1, 1943, Serial No. 477,572
In Germany February 24, 1942
2 Claims. (Cl. 308—79)

1. In combination, a bearing for a spindle having two axially spaced conical portions with the smaller diameters directed toward the ends of said spindle, a housing having mounted therein two bushings each with a conical bore for rotatably supporting the conical portions of said spindle, the conical bearing faces of said bushings being provided with axially extending shallow oil grooves terminating in restricted ducts which retard the axial flow of oil from said grooves, means for supplying oil under pressure from the exterior of said housing to said oil grooves, one of said bushings being rigidly mounted in said housing, while the other bushing is axially slidable, but non-rotatable in said housing, an annular abutment within said housing, and a plurality of coil springs arranged between said abutment and said last named bushing whereby both bushings are biased in an axial direction toward seating engagement with their respective conical portion on the spindle, the oil pressure during the rotation of the spindle being such that the axially slidable bushing is maintained in a balanced condition by the two axially directed components of the oil pressure and the pressure of said coil springs, so as to insure the maintenance of a thin oil film between the conical bearing faces.



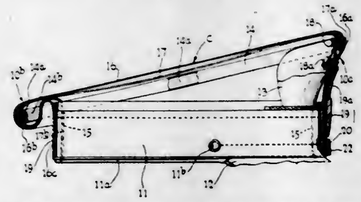
---

2,389,688
**KNITTING MACHINE ATTACHMENT**
**James A. Ruth, High Point, N. C.**
Application May 15, 1944, Serial No. 535,631
9 Claims. (Cl. 66—157)



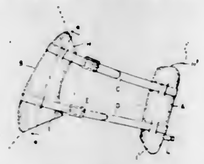
1. In a knitting machine having a latch ring pivoted for upward movement relative to the needles, and having a slidably mounted fork for shifting the belt from a tight pulley to a loose pulley of the knitting machine and having a pattern drum, a plate fixedly secured on the latch ring, a plurality of detecting devices adapted to engage portions of the needles mounted on said plate, means for engaging said fork to shift the belt from the tight pulley on the knitting machine to the loose pulley, means normally urging the fork engaging means to move the fork to position the belt on the loose pulley, means for latching the fork engaging means in a position to hold the belt on a tight pulley of the knitting machine, interconnected means between said plurality of detecting devices mounted on said plate and the latch for actuating the latch to release the forked engaging means when any irregularity is detected by the detecting devices in the needles.

**2,389,689**
**UNIFORM CAP**
**Edith F. Scheppler, New York, N. Y.**
**Application May 20, 1944, Serial No. 536,529**
**3 Claims. (Cl. 2—195)**



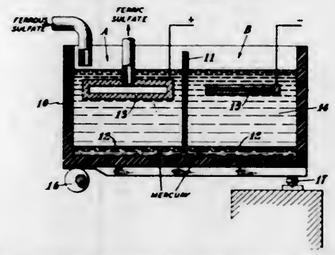
1. A convertible uniform cap of the character described comprising a reinforced head band formed with spaced eyelets, a bracing stayer upstanding from a front portion of said head hand, a flexible head shield permanently secured to loosely extend from said stayer to a rear portion of the head band, a circular stretching grommet movably attached to said head shield and stayer at a spaced distance from the head band, means for detchably securing the grommet to said head shield and stayer, an interchangeable crown cover fitted over the stayer and grommet and having a band snugly fitted to the head band, said grommet extending peripherial portions of the cover beyond the rear and sides of the head band for stretching said cover to have a greater cross sectional area than the opening of the head band so that when the grommet is detached and removed from within the cap cover the latter is permitted to assume a draped effect at the rear and sides of the cap, said cover band having spaced openings corresponding to the location of said head band eyelets, a strap extending partially about the cover over the front of said head band, button members securing the ends of said strap in position and having portions thereof inserted through the cover band openings and through said eyelets, and a snap fastener means for securing the crown cover in proper position on the head band aligning said cover band openings with the eyelets and for securing said cover against peripherial movement while assembling thereof on the head band.

**2,389,690**
**CERVICAL COLLAR**
**Frederic Schreiber, Detroit, Mich.**
**Application October 18, 1943, Serial No. 506,733**
**3 Claims. (Cl. 128—87)**



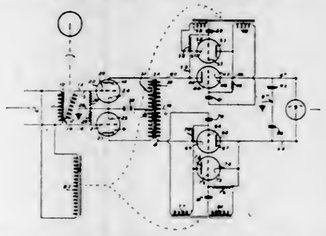
1. A cervical collar comprising pneumatically inflated members adapted to be placed respectively in front and rear of the neck of the patient, the rear member adapted to be supported on the shoulders and to engage the underside of the skull and the front member adapted to be arranged beneath the chin and to rest against the breast of the patient and flexible adjustable connections between said members.

**2,389,691**
**ELECTROLYTIC PROCESS FOR TREATING A FERROUS SULPHATE SOLUTION**
**Erwin A. Schumacher, Parma, and George W. Heise, Rocky River, Ohio, assignors to National Carbon Company, Inc., a corporation of New York**
**Application November 8, 1941, Serial No. 418,376**
**1 Claim. (Cl. 204—93)**




A continuous process for treating an acidulous aqueous solution of ferrous sulphate containing 0.5% to 5% free sulphuric acid to produce iron and a solution of ferric sulphate which comprises the steps of electrolyzing such solution as an electrolyte in contact with a mercury cathode in which iron is deposited, and a porous carbon anode at which ferrous sulphate is oxidized to ferric sulphate; withdrawing through said anode anolyte containing said ferric sulphate; removing the iron-containing mercury from contact with said electrolyte; electrolyzing an iron-sulphate containing second electrolyte, in which the contraction of free sulphuric acid is about 0.01 N to 0.02 N in contact with said iron-containing mercury as an anode, and an insoluble cathode, thereby stripping iron from the mercury and depositing iron on the last mentioned cathode; and returning mercury from the last-mentioned step to the first-mentioned step of the process.

**2,389,692**
**REMOTE INDICATING SYSTEM**
**Chalmers W. Sherwin, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**
**Application January 18, 1944, Serial No. 518,777**
**4 Claims. (Cl. 177—351)**



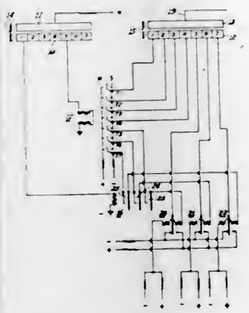
1. An indicating system comprising a transformer having windings relatively movable to vary the coupling from a maximum through zero to another maximum, said winding movement being mechanically connected to an apparatus whose position is to be indicated, means for impressing an unmodulated alternating current on the primary, connections from said secondary to a push-pull detecting system, said system having two rectifiers in each leg thereof, said two rectifiers being in parallel with the cathode of one connected to the anode of the other, means for rendering all rectifiers conductive simultaneously only during the peak value in one algebraic sense only of each cycle of said unmodulated alternating current and means for utilizing said detected output to give indications of the condition of said transformer.



**2,389,693**
**PROCESS FOR PRODUCING HIGH MOLECULAR WEIGHT POLYMERS FROM OLEFINS**
**William J. Sparks, Cranford, and Robert M. Thomas, Union, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana**
**No Drawing. Application October 3, 1940, Serial No. 359,598**
**20 Claims. (Cl. 260—93)**

10. In the polymerization of mixtures of isoolefinic and diolefinic hydrocarbons having 4 to 6 inclusive carbon atoms with a Friedel-Crafts catalyst, the improvement comprising conducting the polymerization at temperatures below —10° C. while the catalyst is dissolved in carbon disulfide.

**2,389,694**
**POLAR RELAY STORAGE SYSTEM**
**James A. Spencer, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 4, 1943, Serial No. 512,932**
**6 Claims. (Cl. 178—17)**



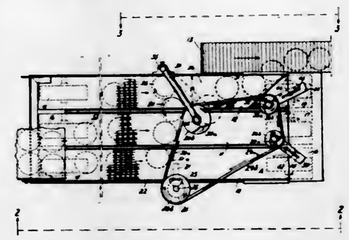
1. In a multi-unit signaling system, an outgoing line, a distributor having a segment for each unit of the code character, means for connecting the segments of said distributor in succession to said line, a master relay having its coil connected to a predetermined one of said segments, polar relays having switch tongues and contacts of different potentials for storing each of the signal units of a code character after said predetermined signal unit thereof, each of said switch tongues being connected to one of the segments of said distributor, a signal transmitter having a switch arm and a pair of contacts of different potentials for each unit of the code character, means for connecting the switch arms of said transmitter for the stored signal units to the coils of said polar relays through the contacts of said master relay and each of the other of said switch arms to one of the segments of said distributor and means for moving the switch arms of said signal transmitter into another signal code position after the last one of said remainder of switch arms of the previous code combination has been connected through its distributor segment to the outgoing line.

**2,389,695**
**IMPULSE SENDER**
**Harold T. Stenhammer, New York, N. Y., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application May 19, 1944, Serial No. 536,300**
**8 Claims. (Cl. 74—576)**



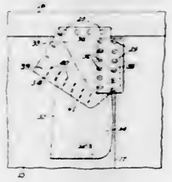

1. In an impulse sending device, a ratchet having a plurality of teeth and intervening notches, a pawl movable in one direction over said teeth and partially into said notches and in another direction to exert a driving force upon said ratchet, means including a rotatable dial for moving said pawl in the first named direction, and means mounted independently of said pawl and constantly engaging said ratchet teeth and notches for limiting movement of said pawl into said notches and for cushioning the latter movement to reduce the amount of noise incident thereto.

**2,389,696**
**CONVEYER FEEDING SYSTEM**
**John W. Stiles, New York, N. Y.**
**Application August 10, 1944, Serial No. 548,872**
**3 Claims. (Cl. 198—32)**



1. In a conveyer apparatus, a plurality of parallel adjacent feed belts, one of said belts also serving as a discharge belt, a guide belt disposed over and extending obliquely across certain of said feed belts, means to actuate said feed belts in a direction toward said guide belt, a plurality of pulleys in operative engagement with said guide belt, one of said pulleys being a drive pulley and the others idler pulleys, one of said idler pulleys being adjacent said discharge belt and spaced from the outer lateral edge thereof to permit the passage therepast of units traveling on said discharge belt, and means to operate the drive pulley for actuating the guide belt toward the discharge belt, whereby units traveling on the feed belts will be deflected by the guide belt in the general direction of its movement.

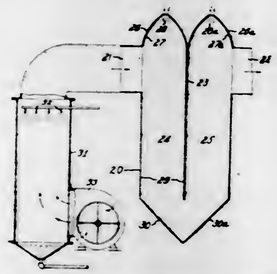
**2,389,697**
**SANITARY DETACHABLE POCKET**
**Isidor Stoeckert, Ridgewood, N. Y.**
**Application December 15, 1942, Serial No. 469,137**
**1 Claim. (Cl. 2—247)**



The combination with a trousers having a pocket opening and reinforcing strips attached to the sides of the pocket opening, said trousers having a horizontal row of buttons disposed laterally of and above the pocket opening and on the inside of the trousers, each of said reinforcing strips being provided with a vertical row of buttons, and a detachable trousers pocket having side walls provided with button holes in their upper edges detachably engaging the horizontal buttons of the trousers and button holes along their sides to engage the vertical buttons of the trousers.

---

**2,389,698**
**AIR CONDITIONING**
**Harold T. Stowell, Washington, D. C., assignor to Research Corporation, New York, N. Y., a corporation of New York**
**Application December 30, 1941, Serial No. 425,003**
**4 Claims. (Cl. 21—74)**

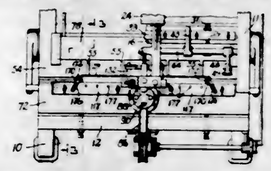


3. In an air conditioning system, means for adjusting to a predetermined amount the moisture content of air to be supplied to a conditioned space, a conduit having a metallic-surfaced reflective lining having a high coefficient of reflection for near-visible infra-red radiation, a source of infra-red radiation positioned to radiate into said conduit, and means for passing air from said moisture content adjusting means through said conduit and into a space to be conditioned.

---

**2,389,699**
**BINDING STRIP APPARATUS**
**William Stuebing, Jr., Cincinnati, Ohio**
**Application January 5, 1942, Serial No. 425,627**
**1 Claim. (Cl. 153—1)**

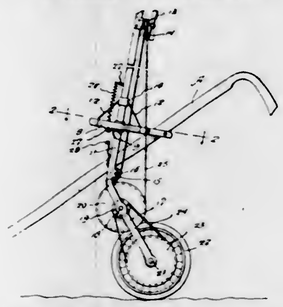
In apparatus for attaching metal eyelets on folded metal strips wherein the strips are fed transversely of their length beneath a pressure plate in overlapping relationship with respect to the eyelets and wherein each eyelet is automatically attached to said strip, the combination with means for moving and holding the strips of a pair of gauges positioned at the respective ends of the strip, each of said gauges comprising a finger member adjustably held against the working surface upon which the strip is positioned,



said finger member having a beveled side edge beneath which the respective end of each successive strip is moved, and a resilient link providing the support for said finger member with the finger member attached at one end of the link and with the link adjustably clamped to a stationary support adjacent its other end.

---

**2,389,700**
**FAN ATTACHMENT**
**Shepard Taylor, Gresham, S. C.**
**Application October 11, 1944, Serial No. 558,175**
**2 Claims. (Cl. 230—241)**

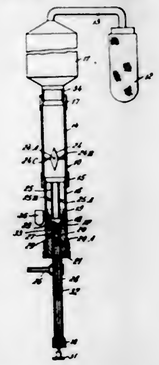


1. In combination with a handle of an agricultural implement, a detachable cooling fan, ground engaging means for driving the fan, and means for elevating and holding the ground engaging means above the ground in inoperative position.

---

**2,389,701**
**PNEUMATIC SIZING**
**Edward Cushman Truesdale, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey**
**Application October 15, 1941, Serial No. 415,149**
**5 Claims. (Cl. 209—139)**

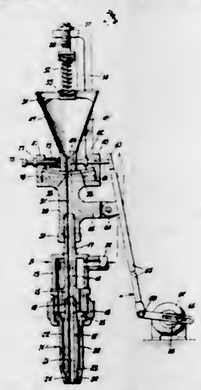
1. In pneumatic sizing apparatus, the combination which comprises an upright structure including a blowing tube, a settling chamber, means for the discharge of sized fine solid particles from the top of the settling chamber, a collimating tube in the blowing tube providing an upright space between the blowing tube and the collimating tube, means for charging solid particles in a stream of gas into and through the collimating tube, the collimating tube having openings at the top and the bottom communicating with the upright space, and a tapered stream-directing baffle disposed in the blowing tube and directly above the collimating tube, the lower portion of said baffle consisting of downwardly inclined smooth surfaces converging to form an acute angle sufficiently sharp that said baffle functions substantially only as a deflector for said stream, the space in the settling chamber being directly above the baffle, contiguous with



the space in the upper part of the blowing tube and characterized by an unobstructed continuous upright open space providing for the upward flow of gas directly above the baffle and for the return downward of relatively heavy solid particles from the settling chamber through the space around the baffle and in the blowing tube.

---

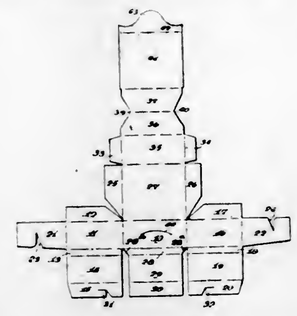
**2,389,702**
**APPARATUS FOR TREATING METAL ARTICLES**
**Valentine G. Ullmer, Pittsburgh, Pa., assignor to Haynes Stellite Company, a corporation of Indiana**
**Application April 1, 1943, Serial No. 481,394**
**10 Claims. (Cl. 91—12.2)**



1. Apparatus for applying welded-on overlays of protective metal upon a metal surface, which comprises a blowpipe having a nozzle provided with a passage for finely divided solid material terminating in a discharge outlet; at least one passage for an oxy-fuel gas mixture having a discharge outlet; means for feeding a combustible gas mixture to such oxy-fuel gas passage; means for feeding a finely divided solid material to the first-named passage and the discharge outlet thereof, such solid material feeding means including a support for the finely divided material, said support having a discharge passage for such material, and an apertured plate, said support and plate being movable relative to each other; and means for effecting relative movement between said support and said plate transversely of said discharge passage, whereby intermittently and recurrently the aperture in the plate and the outlet passage in said support are both in communication with the passage for solid materials in the blowpipe nozzle.

---

**2,389,703**
**CARTON**
**Robert Van Rosen, New York, N. Y., assignor to J. Makowsky Corporation, a corporation of New York**
**Application June 12, 1944, Serial No. 539,903**
**11 Claims. (Cl. 229—16)**

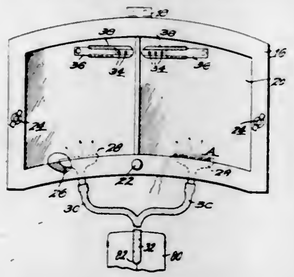


1. In a carton formed from a single sheet of material, a front wall having a slot therein, side walls articulated at each end of the front wall, side top walls articulated at the tops of the side walls and extending inwardly, inner side walls articulated at the inner sides of the top side walls and extending downwardly, side wall brace members articulated at the lower edges of the inner side walls and extending inwardly and provided with catch members, a front top wall articulated at the top of the front wall and extending inwardly and provided with inwardly inclined ends and overlying the ends of the top side walls, an inner front wall articulated at the inner edge of the front top wall and extending downwardly between the front ends of the inner side walls, a front wall brace member articulated at the bottom of the inner front wall and extending inwardly overlying the side wall brace members and held by the catch members, reinforcing members articulated at the bottom edges of the side members having inclined front ends and extending upwardly between the inner and outer side wall members, connecting members articulated to the rear ends of the side walls and extending inwardly and interlocking with each other, a bottom member articulated at the bottom edge of the front wall and extending rearwardly to the rear ends of the side walls and in contact with the side wall brace members, reinforcing members articulated at the sides of the bottom member having inclined front edges and extending upwardly between the inner side wall members and the reinforcing members of the side wall members, a rear wall articulated at the rear edge of

the bottom member and extending upwardly, reinforcing members articulated at the sides of the rear wall and extending inwardly in contact with the rear wall and substantially in contact with the rear side of the connecting members, a first reinforcing member articulated at the top edge of the rear wall and extending downwardly substantially in contact with the front side of the connecting members, a second reinforcing member articulated at the bottom edge of the first reinforcing member and extending upwardly substantially in contact therewith, both the last-mentioned reinforcing members having ends inclined upwardly and lying back of the rear ends of the inner side walls, a cover member articulated at the top edge of the second reinforcing member and extending forwardly, and a locking flap articulated to the front edge of the cover member and extending downwardly and engaging the slot in the front member.

---

**2,389,704**
**UNIVERSAL AUTOMOTIVE VEHICLE WINDSHIELD DEFROSTER AND DRIER**
**Lazzaro V. Villani, Milford, Mass.**
**Application October 29, 1942, Serial No. 463,742**
**3 Claims. (Cl. 20—40.5)**

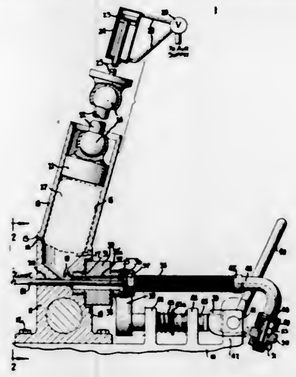


1. In a device of the class described, a windshield defrosting and drying device comprising a windshield frame, a second windshield frame pivoted to the first windshield frame for pivotal movement to and from the same, at least one of said windshield frames having a shallow, fan-shaped recess facing the other windshield frame, and a shallow, fan-shaped air nozzle fitting said recess and adapted to be removably clamped by and between said windshield frames.

---

**2,389,705**
**SHIELDED IGNITION LEAD**
**Fred H. Wetzel, Port Huron, Mich., assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio**
**Application August 2, 1943, Serial No. 497,101**
**4 Claims. (Cl. 154—2.28)**

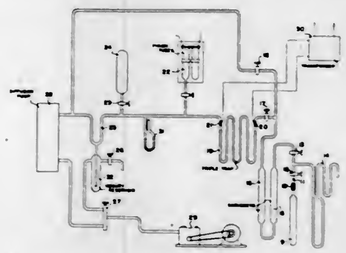
1. The method of positioning a unitary body of insulating compound in a shielding tube, housing an insulated wire comprising, positioning threaded nipples on each end of the length of tubing, attaching mold members by a threaded relation with the nipples to each end of the tubing, placing an insulated wire from a continuous strand in the tube and attaching the free end thereof to one of the mold members, holding the continuous strand of wire adjacent the other mold, extruding an insulating compound into the tube through the last mentioned mold to completely fill the spaces between the insulated wire, the molds and tubing with a continuous piece of insulating compound, severing the wire contained in the assembly from



the continuous strand of wire adjacent the holding means and thereafter curing the insulating compound in position.

---

**2,389,706**
**APPARATUS FOR GAS ANALYSIS**
**Philip S. Williams and Monroe W. Kriegel, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware**
**Application January 7, 1943, Serial No. 471,528**
**5 Claims. (Cl. 23—254)**



1. An assembly adapted for analyzing gases comprising in combination a scrubbing means, an evacuating means including a mercury diffusion pump and a mechanical pump, a first conduit and a second conduit each connecting said scrubbing means with said diffusion pump, a stopcock controlling flow in each of said conduits adjacent said scrubbing means, a triple trap and U tube inserted in the first conduit, a reservoir, a conduit connecting the reservoir with the first conduit, a pressure gauge assembly, a conduit fluidly connecting the assembly to the first conduit between said triple trap and said U tube, a mercury reservoir arranged adjacent said U tube, a conduit fluidly connecting a lower portion of the U tube with a lower portion of the reservoir, a conduit arranged for connecting said reservoir with said mechanical pump, a stopcock in said conduit, a conduit having a stopcock therein connecting an upper portion of the reservoir with the atmosphere whereby mercury may be forced into and removed from said U tube.



**2,389,707**
**EYESHIELD**
**Joseph Rowland Wylde and Richard Gilbert Perry, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware**
**Application December 31, 1941, Serial No. 425,030**
**In Great Britain March 3, 1941**
**1 Claim. (Cl. 2—14)**



An eye shield comprising a body member of a width and depth to cover both temples, both eyes and the area of the face adjacent the eyes of a wearer, the body member comprising a sheet of wire gauze having the edge thereof bound by a reinforcing wire, a thin sheet of colored plastic material coextensive with the sheet of wire gauze and disposed on the inner face thereof, means securing the two sheets together adjacent the alined edges thereof, and a retaining member secured to the body member.

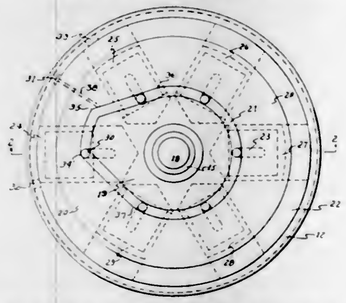
---

**2,389,708**
**COATING COMPOSITIONS**
**John J. Zolad, Detroit, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application February 3, 1942, Serial No. 429,399**
**5 Claims. (Cl. 260—16)**

1. A surfacing composition containing from 6 to 10% of solid granular ethyl cellulose having an ethoxy content between 46.8 and 48.5 per cent dispersed in a liquid vehicle containing material selected from the group consisting of drying vegetable oils, semi-drying vegetable oils, and alkyd resins modified with such oils in which the said ethyl cellulose is substantialy insoluble at normal temperatures, said vehicle containing less than 0.3 per cent of volatile components, and dispersed therein about 80% of combined pigment and filler.

---

**2,389,709**
**MECHANICAL ACTION**
**Frederick W. Anders, Danville, Ill.**
**Application April 16, 1945, Serial No. 588,461**
**6 Claims. (Cl. 103—161)**



1. An apparatus comprising a stationary housing, a closely fitting rotor having a shaft, a cylinder formed radially in said rotor, the diameter of said cylinder being less than the width of the rotor, opposed slots in the walls of the rotor extending into and for a part of the length of said cylinder, a piston in the cylinder, a pin associated with the piston and extending through the slots, a cam track to impart an interrupted reciprocation to the piston comprising segments of two concentric circles, one having a radius equal to that of the rotor minus the length of the piston stroke, the second having a radius equal to the radius of the rotor minus twice the length of the piston stroke, said concentric segments being joined by working segments, said cam being placed in said housing and associated with the pins so that when the piston is at the limit of its outward stroke it conforms to the rim of the rotor thereby presenting an unbroken surface, a discharge port in said housing of smaller cross-section than said cylinder and communicatable therewith only during the discharge stroke of said piston, an intake port of lesser cross-section than said cylinder and communicating therewith only during the withdrawal stroke of said piston, the rim of said rotor always sealing the space between said discharge and intake ports.

---

**2,389,710**
**JARRING TOOL**
**Arthur L. Armentrout, Long Beach, Calif.**
**Application August 12, 1941, Serial No. 406,465**
**7 Claims. (Cl. 255—27)**



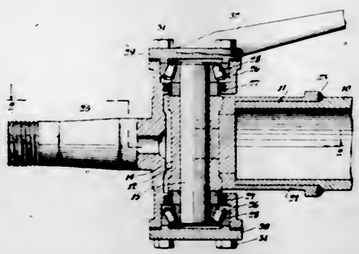
1. In a well tool, two sections connected for relative turning and adapted to be interposed in a well string, one section having a longitudinal cylinder, a hammer shiftable in the cylinder, means for introducing gas under pressure to the cylinder at one side of the hammer, means operable by relative turning of the sections for moving the hammer longitudinally against the gas under pressure to increase said pressure and produce a low pressure condition at the other side of the hammer and releasable following a given movement of the hammer to allow the hammer to move in the other direction under the action of the expanding gas and reduced pressure condition so that it strikes a jarring blow against a section, and means operable by relative rotation of the sections for pumping gas from the cylinder at said other side of the hammer to the cylinder at the first named side of the cylinder.

**2,389,711**
**WELL JAR**
**Arthur L. Armentrout, Long Beach, Calif.**
**Application August 13, 1941, Serial No. 406,646**
**15 Claims. (Cl. 255—27)**



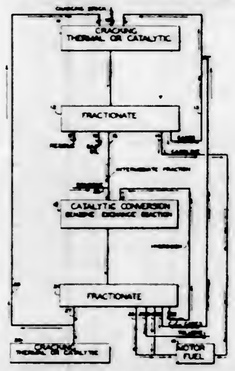
1. In a well tool, two sections connected for relative turning and adapted to be interposed in a well string, one section having a longitudinal cylinder with a shoulder therein, a hammer shiftable in the cylinder, means maintaining a fluid-tight seal between the hammer and cylinder, the portion of the cylinder at one side of the hammer containing gas under pressure, and means operable by relative turning of the sections for moving the hammer against the gas under pressure to increase the pressure thereon and for then releasing the hammer to move in the other direction under the action of the expanding gas to strike against the shoulder.

**2,389,712**
**VEHICLE AXLE**
**Charles S. Ash, Milford, Mich.**
**Application September 24, 1943, Serial No. 503,608**
**6 Claims. (Cl. 301—124)**



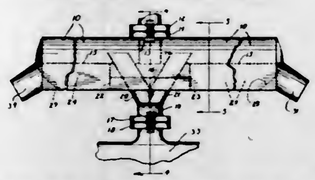
1. A steering vehicle axle comprising a tubular beam member, and knuckle units at either end of said beam member, each said unit comprising a king pin holding portion and an integral closing plate and collar portion positioned over an end of said beam member, said collar portion being secured to said beam by welding at the end of the beam, said plate also serving to close the tubular beam end.

**2,389,713**
**CONVERSION OF HYDROCARBONS**
**Harold V. Atwell, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application March 6, 1943, Serial No. 478,240**
**10 Claims. (Cl. 260—668)**




1. In the manufacture of toluene and aromatic motor fuels the process that comprises subjecting a higher boiling petroleum stock to cracking temperature under conditions to effect conversion into lower boiling hydrocarbons and extensive conversion into aromatic hydrocarbons, fractionating the resultant cracked products to obtain an intermediate fraction rich in aromatic hydrocarbons and comprising gas oil constituents and the higher boiling components of gasoline, adding benzene to said intermediate fraction and subjecting the mixture to catalytic conversion in contact with a synthetic silica-alumina catalyst to effect selective conversion to toluene accompanied with a net reduction in aromatics boiling above the xylenes, fractionating the resultant products of conversion to separate lighter fractions comprising toluene from higher boiling fractions comprising gas oil constituents of reduced aromaticity and subjecting said higher boiling fractions to further cracking to effect formation of lower boiling products.

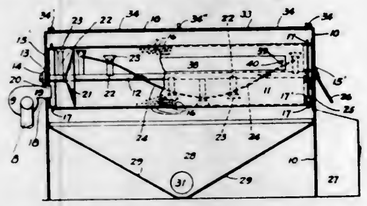
**2,389,714**
**ENGINE FUEL GASIFIER**
**Erwin G. Baker, Indianapolis, Ind.**
**Application March 11, 1942, Serial No. 434,230**
**3 Claims. (Cl. 257—241)**



3. A gas engine fuel mixture heater comprising a housing divided by walls to form a major compartment having a length greater than its transverse width and a minor compartment centrally located in juxtaposition with the major compartment and of less length thereof; laterally spaced walls within said housing outside of said major compartment defining between alternating spaced pairs of walls a plurality of fuel conducting passageways leading from one end portion of said minor compartment along said major compartment and discharging into an outer end portion thereof; a second set of laterally spaced walls within said housing outside of said major compartment defining between alternating pairs of said spaced walls a plurality of fuel conducting passageways oppositely leading from the other end portion of said minor compartment along said major compartment and discharging into its other end portion; a fuel mixture inlet pipe discharging into said minor compartment; said housing having exhaust gas intake and outlet ports at respective opposite end portions; said pairs of spaced walls in each group being spaced apart to form exhaust gas passageways therebetween open at the exhaust gas inlet and outlet ends of said housing and further being open at and outside of said minor compartment, whereby exhaust gases entering the housing through its inlet port are conducted between walls of one group of said fuel conducting passageways and across outside of the minor compartment, between the walls of the fuel conducting passageways of the second group to discharge from the housing through said housing outlet port; and a fuel mixture outlet pipe leading from a central zone of said major compartment.

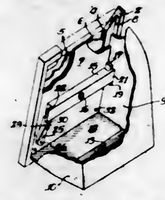


**2,389,715**
**APPARATUS FOR REMOVING DUST FROM FEATHERS**
**Orrin C. Beardsley, Seattle, Wash.**
**Application October 18, 1944, Serial No. 559,321**
**2 Claims. (Cl. 209—21)**



1. In an apparatus for removing dust from feathers, comprising, an elongated housing having an opening in the front end thereof, a feed tube mounted in the opening for supplying currents of air and feathers to be cleaned, a cylinder disposed longitudinally and horizontally through the housing and having relatively small perforations throughout the walls thereof for the escape of dust from feathers in the interior thereof, a cap across the front end of the cylinder having a doorway for the air currents and feathers from the feed tube the rear end of the cylinder being open and a doorway in the casing adjacent the open end of the cylinder for the escape of feathers from the cylinder, a shaft rotatably mounted centrally through the cylinder, means for rotating the shaft, a disc affixed to the shaft a relatively short distance behind the cap for scattering the feathers and loosening dust therefrom when fed into the cylinder, arms extended from the shaft in spiral and spaced relation with each other, resilient paddles carried on the outer ends of the arms adapted to sweep around adjacent the inner walls of the cylinder for agitating the feathers and for separating the dust therefrom and for causing the feathers to travel through the length of the cylinder, a hopper beneath the cylinder for gathering the dust from the cylinder, a suction tube projected from the base of the hopper for drawing the dust through the perforations in the cylinder and from the hopper and having a capacity for carrying a greater amount of air than the feed tube, an adjustable valve along the top of the housing for admitting air to the housing above the cylinder for carrying dust from the outside of the cylinder into the hopper and for supplying sufficient air to the housing to prevent the suction from retarding the flow of feathers through and from the cylinder.

**2,389,716**
**SAVINGS BANK**
**George C. Carlson, Chicago, Ill.**
**Application February 16, 1942, Serial No. 431,805**
**2 Claims. (Cl. 206—1.5)**



1. In a device of the class described, the combination of a receptacle having fixed walls and a removable wall, one of said fixed walls having a slot in proximity to said removable wall, means for locking said removable wall to said receptacle, said means including a centrally pivoted bar member and relatively fixed means engageable by the ends of said bar member, said bar member and said fixed means being disposed within said receptacle, one being carried by said removable wall and the other being carried by said receptacle, a movable member pivoted at one end to swing into engagement with and to lock said bar member in engaging relation with said fixed means to prevent removal of said removable wall from said receptacle, and a detachable tool extending through said slot and pivotally and detachably engaging said movable member at its opposite end to move said movable member into and out of said engagement with said bar member.

**2,389,717**
**HOLDER**
**Meyer Cohen, Forest Hills, N. Y., assignor to May Miriam Cohen, Forest Hills, N. Y.**
**Application August 17, 1943, Serial No. 499,027**
**4 Claims. (Cl. 24—6)**



1. A holder for the stem of a flower or like object including in combination a shaft member, a closed rigid loop pivotally mounted on said shaft member through which loop the stem is passed, and resilient means connected to said loop and extensible between said loop and an anchor on said shaft member to apply a resilient bias of said loop against said shaft member whereby to resiliently secure said stem between said loop and said shaft member.

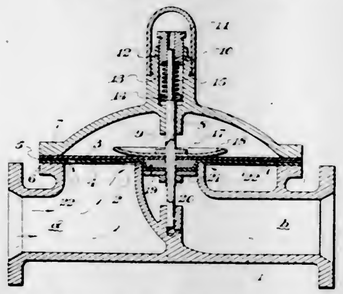
2,389,718
**DISUBSTITUTED DITHIOPHOSPHATES**
**Arnold R. Davis, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application January 7, 1943, Serial No. 471,606**
**5 Claims. (Cl. 260—461)**

4. The di(methylhexyl) dithiophosphoric acid salt of phenyl biguanide.

2,389,719
**SHARK REPELLENT**
**Alfred Dinsley, La Canada, Calif.**
**No Drawing. Application July 7, 1944, Serial No. 543,974**
**3 Claims. (Cl. 167—22)**

1. The method of repelling carnivorous fish from cast aways in carnivorous fish infested water comprising dispersing formic acid in said water.

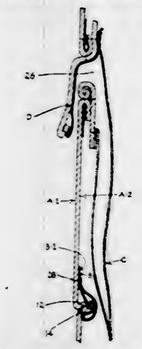
2,389,720
**DIAPHRAGM OPERATED VALVE**
**Phillips B. Drane, Tulsa, Okla.**
**Application June 6, 1944, Serial No. 538,935**
**4 Claims. (Cl. 137—153)**



1. A diaphragm valve comprising a casing divided into upstream and downstream sides, a valve seat within said casing, a cover for said casing, an axially movable valve stem within said casing and cover and extending axially through the valve port formed by the valve seat, spaced upper and lower diaphragms on said stem and held between said cover and casing, means for admitting fluid pressure through the lower diaphragm to the space between the diaphragms when the valve is closed or open, said lower diaphragm being formed of a less rigid material than the upper diaphragm, a spacing member carried by the valve stem and interposed between the diaphragms and adapted to move through the valve port and to flex and stretch the lower diaphragm to seat the same on the valve seat.

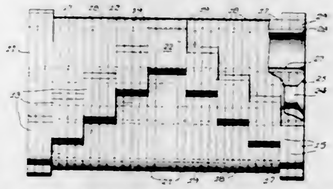
2,389,721
**SIMULATED PATCH POCKET**
**John Paul Durso, Rochester, N. Y.**
**Application March 18, 1944, Serial No. 527,039½**
**2 Claims. (Cl. 2—247)**

1. A fabric garment pocket simulating a patch pocket, comprising a piece of overlapping silesia sewed on the wrong side of the garment and substantially defining the outline of the pocket, said overlapping silesia forming a closed edge and free edges, two rows of stitches spaced apart, one row of stitches passing through the closed overlapping edge of said silesia and said garment, the second of said rows of stitches passing through overlapping portions of said garment and one overlapping portion of said silesia, a third row of



stitches holding the free edges of said silesia to said fabric and pulling on said two rows of stitches whereby the outside of said garment adjacent the bulge will appear in separate planes, and a pocket bag attached adjacent said silesia.

2,389,722
**TANK TREAD**
**Carolus L. Eksergian, Detroit, and Robert B. Temple, Grosse Pointe Park, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application June 23, 1943, Serial No. 491,928**
**5 Claims. (Cl. 305—10)**



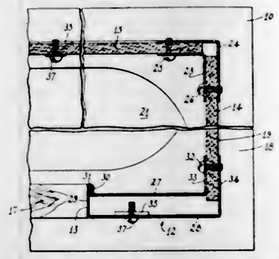
1. A tread shoe comprising separate laminations, hardened tread forming surfaces formed on said laminations, means clamping said laminations together, and means for holding the individual laminations against relative lateral movement comprising link-connecting tubes extending through said laminations.

2,389,723
**GUANIDINE CONDENSATION PRODUCTS AND DERIVATIVES THEREOF**
**Walter P. Ericks, Stamford, Conn., and Milton C. Whitaker, New York, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Original application December 13, 1940, Serial No. 369,950. Divided and this application September 23, 1942, Serial No. 459,436**
**1 Claim. (Cl. 260—9)**

A condensation product of a guanidine and starch which has been prepared by reacting guanidine carbonate and tapioca flour in the presence of concentrated hydrochloric acid, where the reactants are present in a ratio of 18 grams of guanidine carbonate, 32.4 grams of tapioca flour, and 18.7 cc. of concentrated hydrochloric acid, under refluxing conditions for one hour, followed by neutralization with caustic soda and recovery of the condensation product.

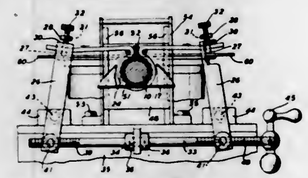


2,389,724
**SHOWER STALL**
**Louis A. Falco, New Haven, Conn., assignor to The Dextone Company, New Haven, Conn., a corporation of Connecticut**
**Application December 27, 1943, Serial No. 515,711**
**1 Claim. (Cl. 189—2)**



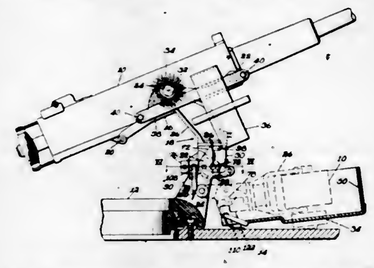
In a shower stall, the combination of a side panel, plate members having flanged portions by which they are fastened to the side panel at opposite surfaces of the latter and having body portions extending laterally from said panel to provide inner and outer members of a hollow stile defining an entrance to the stall, said plate members having means adjacent the entrance to the stall whereby they are interlocked in hookwise fashion, a base member provided with an upstanding rim, a basin and a ledge between the rim and basin, said plate members being engaged at their bottoms with said ledge for support therefrom, and means including an embedded member extending upwardly out of the ledge for holding in place the outer plate member, said plate member being confined between the embedded member and an opposite face of said rim.

2,389,725
**METHOD OF AND APPARATUS FOR APPLYING MATERIAL TO ADVANCING CORES**
**Randall Gillis, Westfield, and William Morsing, Irvington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application May 31, 1941, Serial No. 395,940**
**16 Claims. (Cl. 154—2.26)**



1. A method of applying material to an advancing core comprising applying a cement coating to an advancing core, feeding strip material to the advancing core, bending the material longitudinally about the core, and applying pressure to all points of the material adjacent the core while the material and core pass through a plane lying transverse to the advancing core to force the material into intimate engagement with the cement coating.

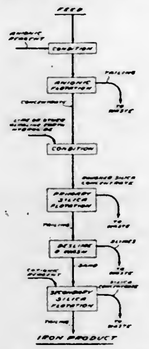
2,389,726
**MOUNTING**
**William V. Goodhue, Ipswich, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application October 11, 1943, Serial No. 505,845**
**21 Claims. (Cl. 89—37)**



1. In combination, a base, a carriage movable on said base, a device movable between an operative position on said carriage and an inoperative position on said base separate from said carriage, supporting means carried by said carriage, means for detachably securing said device to said supporting means, and means connecting said supporting means to said carriage for movement relatively thereto whereby the device may be moved into inoperative position on said base when carried by said supporting means.

7. In combination, an armored tank turret having a hatch ring rotatably mounted thereon, a gun movable between a firing position on the hatch ring and a storage position on the turret independent of the hatch ring, and means for coupling said gun to said hatch ring when the gun is in storage position.

2,389,727
**FLOTATION OF IRON ORES**
**Earl Conrad Herkenhoff, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application December 10, 1942, Serial No. 468,524**
**6 Claims. (Cl. 209—166)**

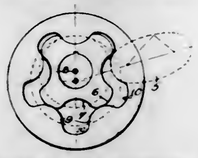


1. A method of beneficiating low grade iron ores containing silicious gangue by froth flotation which comprises the steps of making a pulp of the ore, subjecting the pulp to froth flotation in the presence of an anionic promoter selected

from the group consisting of the higher fatty acids, resin acids, tallol, and the sodium, potassium and ammonium soaps thereof, whereby a concentrate containing a major portion of the iron minerals and a part of the silica-bearing gangue is obtained, conditioning the concentrate with an alkaline-earth oxide in the absence of cationic-type promoters, subjecting the conditioned pulp to a primary silica flotation in the absence of additional collecting agents, and subjecting the tailing from the primary silica flotation to a secondary silica flotation step in the presence of a cationic-type promoter.

---

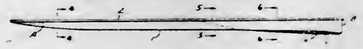
**2,389,728**
**ELLIPTICAL CONTOUR FOR ROTOR TEETH**
**Myron F. Hill, Westport, Conn.**
**Application October 14, 1943, Serial No. 506,256**
**12 Claims. (Cl. 74—462)**



1. A rotary mechanical movement comprising two toothed rotor members having internal and external teeth respectively, one member within and eccentric to the other, and having driving contours characterized by curves described or outlined one by the teeth of the other at relatively steady or uniform angular speeds, said contours having instant centers of curvature at a distance outside of the pitch or ratio circles to provide continuous travelling contacts or engagements between the teeth during opening and closing, said driving contours of the teeth of both rotors including oval curves as distinguished from circles and cycloids.

---

**2,389,729**
**SURFBOARD**
**Levi S. Howland, Long Beach, Calif.**
**Application November 12, 1943, Serial No. 509,985**
**9 Claims. (Cl. 9—11)**

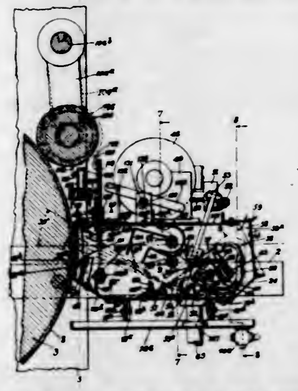


1. In a structure of the class described, a hull having an undulating form in cross-section, and a deck supported at its lateral portions on the sides of the hull and intermediate the lateral portions on the crest portion of the undulating hull.

---

**2,389,730**
**DAMPENING MECHANISM FOR PRINTING PRESSES**
**George A. Iler, Riverside, Ill., assignor to Roberts & Porter, Inc., Chicago, Ill., a corporation of Illinois**
**Application June 3, 1942, Serial No. 445,543**
**15 Claims. (Cl. 101—147)**

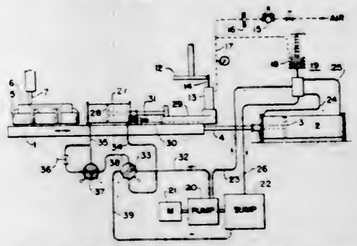
1. A dampening mechanism for printing presses comprising a printing cylinder, a printing plate, an ink roller for applying ink to said plate a plurality of nozzles which discharge liquid in the form of streams, spray converting means which convert the streams of liquid from the nozzles into spray and direct the spray against the printing plate on the press cylinder, a shut-off gate for entirely shutting off the delivery of spray against the printing plate, and means controlled by the movement of the press for moving said shut-off gate so as to intercept the spray



stream during each revolution of the cylinder, a second shut-off gate and means for automatically moving the second shut-off gate so as to partially intercept the spray stream.

---

**2,389,731**
**MACHINE TOOL CONTROL**
**Clarence Johnson, South Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware**
**Application November 30, 1944, Serial No. 565,868**
**6 Claims. (Cl. 82—14)**

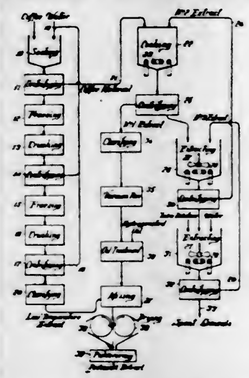


1. In a vertical boring mill in combination, a stationary single point cutting tool, a work piece rotatable relative to the cutting tool, means for laterally moving the work piece relative to the cutting tool, a pattern having the desired shape of the work piece and rotated in synchronism with the work piece, a tracer laterally positioned with the work piece and scanning the pattern, said tracer controlling said means, and other means progressively laterally positioning the tracer relative to the pattern.

---

**2,389,732**
**TREATMENT OF ORGANIC LIQUIDS**
**John L. Kellogg, Chicago, Ill., assignor, by mesne assignments, to John L. Kellogg & Co., Chicago, Ill., a corporation of Illinois**
**Application August 23, 1941, Serial No. 407,052**
**7 Claims. (Cl. 99—71)**

1. Treatment of an edible liquid selected from liquids of animal and vegetable origin to inhibit detrimental bacterial action which comprises: in-

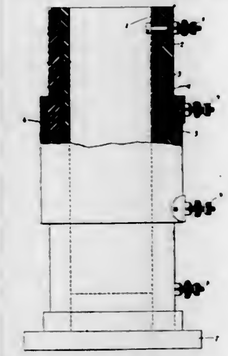


corporating in and reacting with the liquid a small amount of taka-diastase.

---



**2,389,733**
**ARTICLES FORMED FROM PAPER IMPREGNATED WITH POLYMERIZED MATERIAL**
**Edwin Charles Lee, London W. C. 2, England, assignor to International Standard Electric Corporation, New York, N. Y.**
**Application July 10, 1941, Serial No. 401,774**
**In Great Britain December 7, 1940**
**12 Claims. (Cl. 175—21)**



1. A method of making a coil which consists in winding paper carrying synthetic resin into a former, winding a layer of the coil onto said former, winding on more of said paper to form a covering, and bonding the whole.

---

**2,389,734**
**PROCESS FOR THE PRODUCTION OF IRON POWDER**
**Ernst Mehl, Essex, England**
**No Drawing. Application December 11, 1941, Serial No. 422,519. In Great Britain December 19, 1940**
**5 Claims. (Cl. 204—10)**

1. A process for the production of iron deposits suitable for use as iron powders, which comprises electrolysing an aqueous solution of a caustic alkali of a strength exceeding 9 normal at a temperature lying between 110° C. and the boiling point of the electrolyte at the pressure prevailing, with the aid of an anode of ferrous material and a cathode inert to the electrolyte, using a cathodic current density exceeding 2 amperes per square decimeter and an anode current density below 5 amperes per square decimeter, said aqueous solution being free from additions of iron other than that obtained by dissolution of the anode of ferrous material so that substantially all the iron deposited on said cathode is derived from the dissolution of said anode.

---

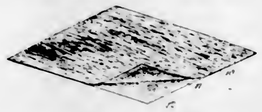
**2,389,735**
**LIFESAVING JACKET**
**Hans George Morner, New York, N. Y.**
**Application March 15, 1944, Serial No. 526,517**
**3 Claims. (Cl. 9—20)**



1. A life jacket for flotation of a person including a plurality of flotation members forming part of a garment to be worn by a person, each flotation member comprising a plurality of closed hollow, prismatic members filled with air under normal pressure, closely adjacent and in interfitting relation with each other whereby substantial deflection of the adjacent side walls is avoided.

---

**2,389,736**
**SOAP SHEET AND METHOD OF MAKING SAME**
**James H. Muise, Bridgeport, Conn.**
**Application June 20, 1944, Serial No. 541,183**
**13 Claims. (Cl. 252—91)**



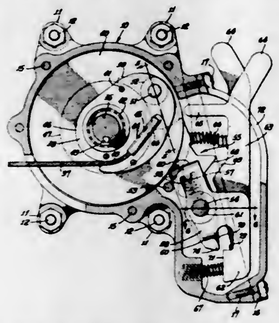
1. As a new article of manufacture, a pair of superposed sheets of paper with a layer of soap interposed between them and binding them together into a unitary structure, said paper being capable of disintegrating when wet.

---

**2,389,737**
**REMOTE CABLE CONTROL**
**Robert Neuschotz, Los Angeles, Calif.**
**Application December 31, 1942, Serial No. 470,903**
**15 Claims. (Cl. 254—185)**

10. A device of the class described comprising a housing, an operating lever pivotally mounted upon the housing, a rotary shaft rotatably mounted on the housing, means operatively connecting the operating lever to the rotary shaft, so that it may be rotated thereby, spring means urging the operating lever into a normal position, a plurality of drums loosely mounted upon the shaft, a ratchet for each drum, a pawl on each drum engageable with its ratchet, a detent for each drum engageable by its pawl, and a selector

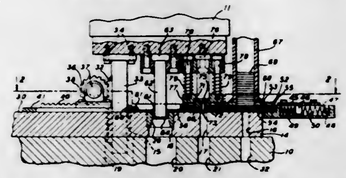
lever relatively to which the detent is slidable, said selector lever being adapted to lock the detent against rotary movement relatively thereto when the detent is moved from a normal position, spring means for urging the detent into normal



position, and a finger on the selector lever engageable with the pawl for causing it to engage the ratchet whereby each drum may be independently rotated by the operating lever into a wound up position, retained therein, and subsequently released.

---

**2,389,738**
**ARTICLE FORMING MACHINE**
**Nathaniel M. Olney, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 9, 1943, Serial No. 482,364**
**6 Claims. (Cl. 113—42)**

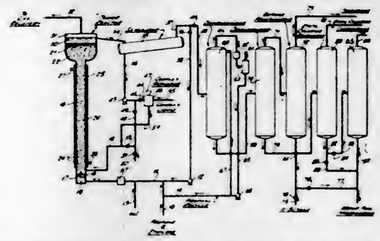


1. An article forming machine comprising a punch and a forming tool each movable through an operating cycle, a die for the forming tool, a movable element having a portion formed to serve as a die for the punch to partially form an article from a part and another portion formed to move the partially formed article to the said die for the forming tool for further formation of the article, and means operable to move the element.

---

**2,389,739**
**CONVERSION OF HYDROCARBONS**
**Ernest F. Pevere, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application July 11, 1944, Serial No. 544,345**
**16 Claims. (Cl. 260—683.4)**

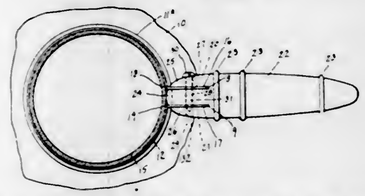
1. The process which comprises reacting a hydrocarbon mixture consisting mainly of propane and ethylene with the propane in substantial molar excess of the ethylene in the presence of an aluminum halide catalyst and about 2–25% by weight of a hydrogen halide based on the hydrocarbon charge at a temperature of about 150–200° F. and under sufficient pressure to maintain propane in the liquid phase, and recovering from the reaction products a substantially saturated material containing $C_4$ and heavier hydrocarbons



and including substantial proportions of isobutane and isopentane.

---

**2,389,740**
**GLASS COFFEE MAKER ADJUSTABLE HANDLE**
**James H. Reichart, Muncie, Ind.**
**Application May 13, 1943, Serial No. 486,861**
**11 Claims. (Cl. 294—27)**



1. A handle and band structure for a vessel comprising a metal band for vessel envelopment and of a width materially greater than its thickness so that it is inherently very flexible and having apertured outwardly directed ends, a rigid handle having a pair of longitudinally directed slots in the vessel confronting end thereof, the slots extending from top to bottom of that end and appreciably spaced apart to provide a central abutment portion integral with the handle and two spaced handle integral side portions, the central portion being adapted for vessel contact and the side portions terminating immediately adjacent the vessel contacting face of the central portion, and means for connecting the band to the handle and passing through the apertures of the band ends and one side portion and the central portion and clamping the aforesaid together when the ends are slot seated, the length of the slots permitting relative tilting between band and handle and upon said connecting means as a pivot when in non-clamping engagement, the side portions terminating at the junction of the band ends and the band and preventing lateral swinging of the band relative to the handle.

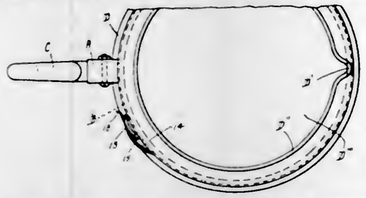
---

**2,389,741**
**GLASS VESSEL BAND AND HANDLE STRUCTURE**
**James H. Reichart, Muncie, Ind.**
**Application August 11, 1943, Serial No. 498,220**
**4 Claims. (Cl. 24—71)**

1. A handled band structure for mounting upon a vessel to be enveloped thereby and for detaching therefrom including in combination a handled, strap-type band of a normally non-extensible material and of a length greater than the vessel



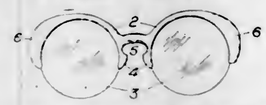
periphery to be clampingly engaged by the band and parted to form ends capable of overlapping when vessel mounted, each end terminating in a substantially closed curl portion of a length equal to the width of the band, one end of the band having an outwardly directed arched formation, an outwardly directed finger engageable portion, and an arch shaped rectangular loop type buckle having parallel side portions secured by and pivoting in the band end curled portions and of a length greater than the latter and the band, the other two portions of the arched loop buckle being curved oppositely with respect to the band end arched portion, the latter, when the band is



collapsed, extending through the buckle between said curved portions thereof, the loop buckle having tensioning capabilities and being capable of forcible curvature deformation for tension variation, the arching of the band end and nesting of same between the arched portions of the buckle providing that the curled end immediately contiguous to the vessel, when the band is collapsed thereon, is in circular registration with and immediately adjacent the other end of the band at the initial arching thereof for substantially complete circular engagement of the vessel when the band is clampingly mounted thereon.

---

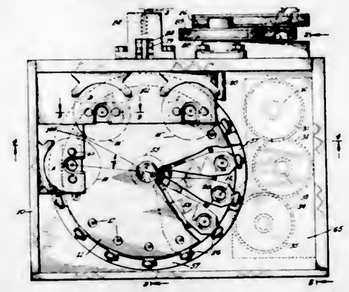
**2,389,742**
**SPECTACLE FRAME**
**Eudice Rey, Brooklyn, N. Y., assignor to Zylo Ware Corporation, Long Island City, N. Y.**
**Application February 1, 1944, Serial No. 520,580**
**2 Claims. (Cl. 88—41)**



1. In a pair of spectacles of the character described, a pair of lenses, a moulded frame of resilient plastic material comprising two arch-shaped rim members, a groove extending along the entire length of the under surface of each rim member for engagement with the edges of the upper portions of the lenses, each arch member embracing the upper part of a lens and extending downwardly on both side edges of the lens to points below the line of maximum horizontal width of the lens to grip the edges of the lens and retain the lens by the inherent resilience of the plastic material of the arch, an integral bridge piece connecting the adjacent parts of said arches, an integral nose pad formed at the inner extremity of each arch, the said bridge piece and nose pads serving to thicken and stiffen the arches at their inner portions, and a thickened and stiffened portion near the outer extremity of each arch so that the arch members are more resilient at their medial portions than at their extremities and such extremities are thus capable of acting as spring tongs to receive the lenses and to hold the latter firmly in place.



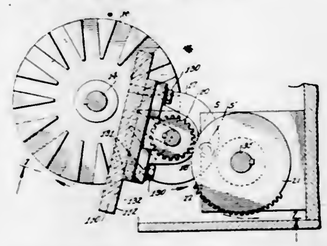
**2,389,743**
**AUTOMATIC DRILLING MACHINE**
**Leo Robbins, New York, N. Y., assignor to Roberts Manufacturing Co., New York, N. Y.**
**Application December 21, 1942, Serial No. 469,685**
**13 Claims. (Cl. 77—23)**



1. In an automatic drilling machine for hypodermic needle hubs and similar articles, a turntable for supporting a plurality of hubs spaced apart a predetermined angular distance, a plurality of drills, and means for moving said turntable step by step, each step corresponding to twice said angular distance, said drills being spaced apart three times said angular distance whereby said drills are caused to cooperate with alternate hubs at each step of said turntable.

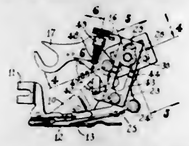
---

**2,389,744**
**INDEXING MECHANISM FOR AUTOMATIC MACHINES**
**Leo Robbins, New York, N. Y., assignor to Roberts Manufacturing Co., New York, N. Y.**
**Original application December 21, 1942, Serial No. 469,685. Divided and this application May 18, 1945, Serial No. 594,501**
**4 Claims. (Cl. 77—64)**



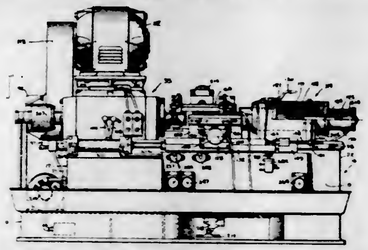
1. In an automatic machine having an operating member, a turntable for supporting a plurality of articles to be operated on by said member, means for driving said turntable step by step to bring said articles successively into cooperative relation to said operating member, said means comprising a star-wheel, a drive for said star-wheel including a rotatable member supported for rotation about an axis displaced from the axis of the star-wheel, a pin carried by said member and adapted to enter the spaces between the teeth of the star-wheel to impart a throw to said star-wheel during each rotation of said member, and means whereby the position of said pin relative to said rotatable member and said star-wheel may be varied to vary the throw of the star-wheel with each rotation of said member.

2,389,745
**SEWING MACHINE ATTACHMENT**
Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application December 26, 1942, Serial No. 470,147
20 Claims. (Cl. 112—135)



1. In an attachment for sewing machines, a frame, a ruffling blade carried thereby, a member rotatably mounted on the frame, means for rotating said member in a step-by-step movement from the needle bar of the machine, an actuating element for said blade, and interengaging means carried by said element and said rotatable member to cause said member to actuate the blade, said means comprising a part carried by said element and spring pressed into engagement with the means carried by said member.

2,389,746
**LATHE AND METHOD OF MAKING THE SAME**
Stanley W. Sparks and Edmund J. Lomazzo, Norwalk, Conn., assignors to The Sparks Machine Tool Corporation, Norwalk, Conn., a corporation of Connecticut
Application January 19, 1942, Serial No. 427,334
19 Claims. (Cl. 82—2)



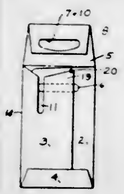
1. In a lathe, the combination of a bed; a headstock having a spindle and driving mechanism therefor; a clutch in said driving mechanism for controlling the operation of the head stock spindle; a tailstock quill for engaging work supported by the headstock; locking means for securing said tailstock quill in operative position with respect to the work; means for actuating said clutch; control means for said last-named means; and means operatively connecting said locking means and said control means for operating the clutch-actuating means whereby the clutch is operated in response to actuation of said locking means.

2,389,747
**ENVELOPE**
Ralph K. Stone, Elmhurst, Ill., and Frank O. Brougham, Springfield, Mass., assignors to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application April 5, 1943, Serial No. 481,796
2 Claims. (Cl. 206—63.2)

1. As a new article of manufacture, an envelope adapted for shaking or sifting discharge of contained pulverulent or granular materials, said envelope being made from a blank having a rectangular body portion, opposite integral side flaps, an integral bottom flap, and an integral top or closure flap, the side flaps being folded toward each other and adhesively connected at their overlapping edges to form in conjunction with said body portion a flattened tubular body, the latter being folded transversely near its lower end, to provide a bottom turn-up which includes said bottom flap, the side flap material having a transverse row of cuts, adjacent said transverse fold, for the discharge of contained material when said bottom turn-up is released, said bottom turn-up also including a transverse insert of multi-ply or loose-fibred material overlapping the side flaps' lower edges and adhered thereto and to the adjacent inner surface of said tubular body, the other side of said insert being adhered above said transverse fold to the external surface of said tubular body, to hold said turn-up in stuck-down position, with said bottom flap left substantially free and unadhered to provide a pull tab for the release of said turn-up by the splitting-apart of said insert substantially centrally of its thickness, thereby maintaining said insert's substantial closure of the lower extremity of said tubular body and exposing said cuts as the only means of discharge therefrom.



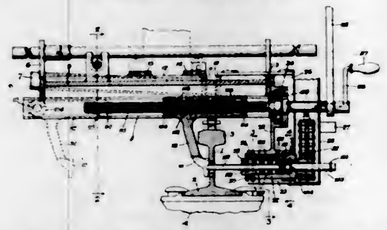
2,389,748
**ENVELOPE**
Willard E. Swift, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application January 2, 1943, Serial No. 471,114
2 Claims. (Cl. 229—84)



1. An envelope having a pocket portion and a slotted closure flap, said pocket portion having a front wall and a rear wall, the latter comprising two opposite side flaps and a bottom flap, said three flaps being folded inwardly and adhesively connected to each other in mutually overlapping areas, one of said side flaps having a slot with which registers the slot of said closure flap when the latter is folded down to pocket-closing position, the second side flap having a slit extending inwardly from its upper edge to provide an integral tongue for insertion through the so-registered slots, and a reinforcement for said tongue, comprising an integral lateral extension on said second side flap, said extension being folded under between said two side flaps and adhered to said tongue to double its thickness, the line of said fold running longitudinally of said tongue and constituting one of its longitudinal edges.



2,389,749
**DRILL CHUCK**
Henry H. Talboys and Helmer E. Erickson, Milwaukee, Wis., assignors to Nordberg Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Original application February 10, 1941, Serial No. 378,260. Divided and this application January 8, 1942, Serial No. 425,994
5 Claims. (Cl. 279—103)



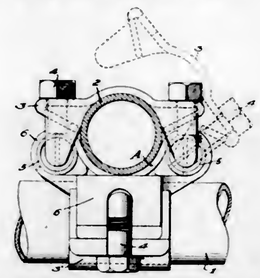
1. In a drill chuck, a sleeve having an inwardly tapered bore, the inner end of the bore approximating a circular cross section, the cross section of the bore becoming increasingly oval from the inner end of the bore to the outer end, and defining a pair of diametrically opposed partial bores generally arcuate in cross section, and a pair of tapered chuck halves, each chuck half being generally arcuate in exterior cross section but decreasing in radial thickness from the outer to the inner end of the chuck halves, said chuck halves being penetrated by pairs of diametrically opposed apertures, and an abutment and centering member including an intermediate portion lying between the chuck halves and end members adapted to penetrate opposed apertures in said halves.

2,389,750
**VARIABLE RESISTANCE DEVICE**
Basil S. Turner, Mervin B. Arisman, and Joseph G. Veatch, Elkhart, Ind., assignors to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Application March 3, 1944, Serial No. 524,900
17 Claims. (Cl. 201—56)



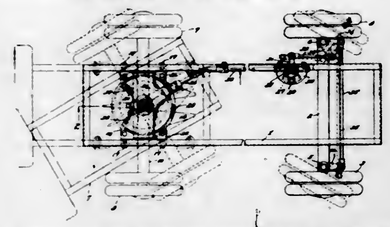
1. In a variable resistor of the character described: a rotatable control shaft; a resistance element encircling the control shaft and having a cylindrical contact surface parallel with the axis of the shaft; and a contactor mounted on said shaft and having a substantially flat body portion by which the contactor is mounted and a pair of spring arms extended from the body portion and pressing against the contact surface of the resistance element at axially spaced points lying in a plane radial to the shaft axis, said spring arms being located at opposite sides of the plane of the substantially flat body portion and being anchored thereto at points angularly spaced with relation to the shaft axis and at opposite sides of said radial plane so that the spring arms approach their points of contact with the resistance element from opposite directions transverse to the shaft axis whereby one of the spring arms is always pulled across the contact surface of the resistance element regardless of the direction of rotation of the control shaft.

2,389,751
**SCAFFOLD CLAMP**
Marius Artique, Geneva, Switzerland
Application July 23, 1943, Serial No. 495,882
In Switzerland August 8, 1942
6 Claims. (Cl. 304—40)



1. A device for assembling scaffold bars or like building elements, comprising a carrier having a pair of opposite bar-receiving cradles disposed in superimposed and angular relation and defined between pairs of folded terminal portions of said carrier forming sockets, hinges in said sockets, rockable clamps cooperating with the cradles in lid fashion, and removable retainers set through the sockets and clamps and engageable with the hinges.

2,389,752
**SEMITRAILER STEERING MECHANISM**
Dallas B. Avery, Capac, Mich.
Application February 23, 1944, Serial No. 523,781
2 Claims. (Cl. 280—33.5)

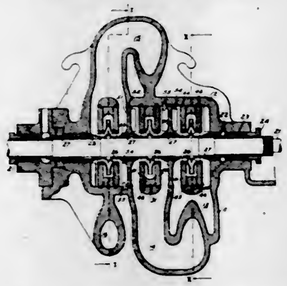


1. Semi-trailer steering mechanism for association with a trailer frame having an axle extending transversely of and fixed to the rear end of the frame, and wheel elements supported at opposite ends of the axle to turn on a vertical axis comprising a plate supported at the forward end of the trailer frame, a vertical shaft rotatably supported by the plate and having an end portion projecting below the said plate, means on the lower end of the shaft engageable by means carried by the tractor element whereby the turning of the tractor element in a horizontal plane causes rotation of the shaft, a gear fixed to the shaft, a pinion engageable therewith, a shaft for the said

pinion, and rotatable means associated with the shaft whereby rotation of the shaft in one direction or the other causes the rear wheels to turn on their pivots to position the trailer wheels at an angle to the longitudinal center line of the trailer frame approximately equal to and the reverse of the angle to which the tractor may be turned.

---

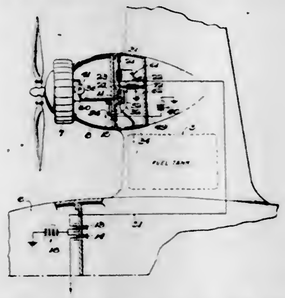
**2,389,753**
**HIGH PRESSURE CENTRIFUGAL PUMP**
**Charles L. Babb, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware**
**Application September 11, 1943, Serial No. 501,910**
**8 Claims. (Cl. 103—109)**



1. In a centrifugal pump, a casing divided through the longitudinal axis thereof, a shaft extending through said casing, an impeller mounted on said shaft, and an enclosure comprising volute pieces extending circumferentially about said impeller and divided into a plurality of segments individually mounted in said casing and diaphragm plates extending at right angles to the axis of said shaft from adjacent said casing along opposite sides of said volute pieces and individually circumferentially mounted in said casing said enclosure being positioned within said casing about said impeller and forming a volute passage receiving the fluid discharged therefrom.

---

**2,389,754**
**AIRCRAFT PROTECTIVE SYSTEM**
**Howard E. Baer, Garfield, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application May 15, 1941, Serial No. 393,635**
**4 Claims. (Cl. 244—135)**



4. In combination with an aircraft having a separated pilot's compartment and a power plant having a fuel feed conduit connecting the fuel source to the engine of said plant; a valve connected in said conduit and effective for precluding the passage of fuel therethrough, electromagnetic means connected to said valve and operable during energization for rendering said valve ineffective, solenoid means effective when deenergized for maintaining said valve ineffective upon deenergization of said electromagnetic means, a switch in circuit with said solenoid means and effective for causing energization of said solenoid means to render said valve effective, a normal taut member connected between said engine and said switch for rendering the latter ineffective when said member is taut, and a second switch disposed in said compartment and connected in circuit with said electro-magnetic means for rendering said latter means effective.

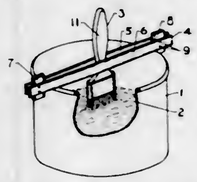
---

**2,389,755**
**PERMANENT WAVE SOLUTIONS**
**George S. Baker, Chicago, Ill.**
**No Drawing. Application December 21, 1942, Serial No. 469,677**
**18 Claims. (Cl. 167—87.1)**

1. A permanent wave liquid which comprises an aqueous solution containing an alkali metal hydroxide, an alkali metal thiocyanate, and an alkali metal sulphite.

---

**2,389,756**
**GRIPPING DEVICE**
**Fred J. Beech, Battle Creek, Mich.**
**Application November 22, 1943, Serial No. 511,382**
**5 Claims. (Cl. 248—110)**

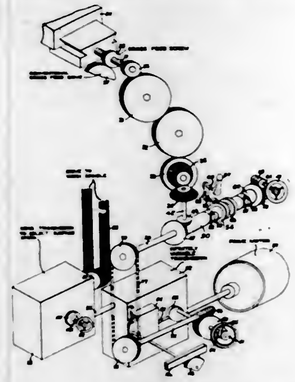


1. In an apparatus of the character described, a pair of elongated and resilient side members, a pair of stop members, one at each end of said side members and between same, means for anchoring said side members to said stop members, said stop members extending sidewise from between said side members at least on one side thereof.

---

**2,389,757**
**APPARATUS FOR OPERATING LATHES**
**Clifford A. Bickel, Sidney, Ohio, assignor to The Monarch Machine Tool Co., Sidney, Ohio, a corporation of Ohio**
**Application March 21, 1941, Serial No. 384,507**
**11 Claims. (Cl. 82—28)**

1. In a lathe the combination of a rotatable work carrying spindle, a transversely movable toolholder, manual means for moving said toolholder, an infinitely variable speed transmission for driving said spindle, control means for regulating the speed of said transmission, means interconnecting said toolholder with said transmission control means for automatically varying the speed thereof with respect the relative positioning of said toolholder to the axis of rotation of said spindle for regulating the speed of said spindle to maintain the surface speed of the work carried constant with respect the work tool carried by the toolholder, manual setting means for setting said control means for said variable speed transmission to obtain a determined speed output therefrom as determined by the initial diameter of the work to be turned, clutch means for selectively selecting between manual or automatic



operation of said control means and for disconnecting said control means for said toolholder, and a selective gear transmission drivingly interconnecting said variable speed transmission with said spindle to provide manual selection of the surface speed of the speed of rotation of said spindle and thus determine the surface speed of the work carried thereby.

---



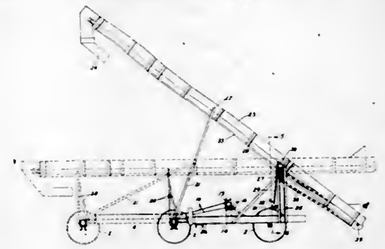
**2,389,758**
**METHOD OF FORMING METALLIC BANDS**
**Ferdinand J. Bittermann, Wheaton, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois**
**Application October 30, 1942, Serial No. 463,991**
**2 Claims. (Cl. 29—156)**



1. The method of forming a metallic band for rotating shells or projectiles from a solid cylindrical metal structure without the removal or loss of metal, comprising the steps of forcing a cone-shaped coining and piercing tool into the central portion of the structure to cause an outward and downward pressure upon the material of the structure without altering its density, reversing the position of the structure so pierced, forcing the cone-shaped coining and piercing tool into the opposite end of this structure, and successively forcing a series of cone-shaped piercing and coining tools each of successively greater size into the opposite ends of the structure with each tool in sequence being forced into one and then the opposite end until a tubular band of predetermined dimensions is produced.

---

**2,389,759**
**PORTABLE CONVEYER AND LOADER**
**Rudolph H. Blank and Frank F. Blank, Walcott, Iowa**
**Application December 18, 1944, Serial No. 568,699**
**4 Claims. (Cl. 198—233)**



1. In a structure for the purpose indicated having front and rear wheels, axles connecting them in pairs, and an extensible reach connecting the axles; a frame supported by the rear axle including uprights rising some distance thereabove, a conveyer pivotally supported by said uprights to be moved from a horizontal to an inclined position and returned, said conveyer extending at its lower end well beyond its pivotal connection to the upright, props connected to the front axle and to a point approximately midway of the length of said conveyer, and means for moving the front axle backwardly and forwardly, whereby to raise and lower the conveyer.

---

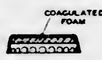
**2,389,760**
**AIRSCREW**
**Walter Brierley, Gloucester, England, assignor to Rotol Limited, a British company**
**Application September 18, 1942, Serial No. 458,773**
**In Great Britain August 24, 1940**
**5 Claims. (Cl. 170—159)**



1. In combination, an airscrew blade comprising a blade body, a metallic reinforcement about the leading edge of said body, said reinforcement comprising unconnected U-shaped sections, and a series of rod like sections secured to said reinforcement sections, the joints of said reinforcement sections being staggered with respect to the joints of the rod sections.

---

**2,389,761**
**CONTAINER CLOSURE**
**Alfred Burgeni, East Orange, N. J.**
**Application May 22, 1942, Serial No. 444,082**
**7 Claims. (Cl. 215—40)**




6. A container sealing member consisting of a resiliently rigid cellular regenerated cellulose structure, the cells of which are non-communicating, suitably shaped to engage and seal the opening of a container.

**2,389,762**
**AUXILIARY LIGHTING FIXTURE**
**William F. Burke, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation**
**Application July 7, 1944, Serial No. 543,802**
**1 Claim. (Cl. 240—1)**



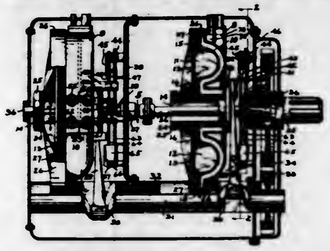
A lighting fixture of the character described, comprising a wall bracket, a bail shaped member on the bracket forming a socket, a cylindrical casing having a lower end to project into said socket, means for detachably connecting the casing to said bracket, a battery contained within said casing, said casing having a light emitting opening, an electrical bulb mounted in said casing in register with said opening, an electrical circuit including said battery and light bulb, a normally closed switch included in said circuit and disposed within the casing, an electro-magnet mounted in said bail shaped member on said bracket with its core in operative relation to said switch and capable of maintaining said switch open when said magnet is energized but permitting said switch to close when said magnet is deenergized.

**2,389,763**
**SEPARATION OF MINERAL VALUES FROM ORES**
**Frank J. Cahn, Chicago, Ill., assignor to The Emulsol Corporation, Chicago, Ill., a corporation of Illinois**
**No Drawing. Application April 24, 1941, Serial No. 390,110**
**16 Claims. (Cl. 209—166)**

1. In the process of concentrating ores by froth flotation, the step which comprises adding to the aqueous flotation medium a higher molecular weight aliphatic carboxylic acid ester of an hydroxy-alkyl non-tertiary amine, substantially free from amides of said carboxylic acid with said amine, and subjecting the ore to a froth flotation separation treatment.

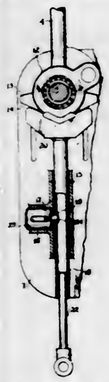
**2,389,764**
**OSCILLATORY ENGINE**
**Telford L. Chard, Indianapolis, Ind., assignor of one-half to Lodge Y. Chard, New Castle, Ind.**
**Application June 20, 1942, Serial No. 447,829**
**4 Claims. (Cl. 123—18)**

1. In an oscillatory engine, the combination of a casing having an annular raceway opening on a side thereof; a cover plate revoluble over said raceway; pistons fixed to and extending from said plate into said raceway; a fixed abutment across said raceway between said pistons; a rocker shaft mounted axially of said raceway and drivingly engaged with said plate; a crankshaft; and a connecting rod interconnecting with said rocker shaft and said crankshaft; and a collar encircling said plate about its peripheral margin and de-



tachably engaging said plate, said collar being formed to limit movement of the plate away from said casing.

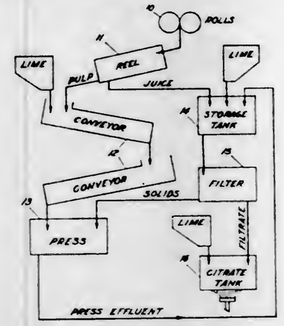
**2,389,765**
**MEANS FOR PREVENTING THE UNAUTHORIZED OPERATION OF INDUSTRIAL TRUCKS AND THE LIKE**
**Clyde E. Cochran, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company**
**Application June 11, 1943, Serial No. 490,426**
**1 Claim. (Cl. 70—202)**



In a device of the character described, a controller mechanism housing, a directional controller handle mounted exteriorly of said housing, a hollow plunger carrying a head at one end thereof engageable with a portion of said handle and adapted to shift said handle to and to maintain it in its neutral position when the plunger is urged against said handle portion, a guide member formed on said housing for directing said plunger, said plunger having an opening therein disposed within the guide member, a locking bolt supported in said guide member and movable into said opening in said plunger when the plunger is engaged with said handle portion and the handle is in its neutral position for locking said plunger against movement, and actuating means for said plunger including, a rod extending into the end of the plunger opposite said one end and slidable in said plunger, said rod having a shoulder engageable with the end of the plunger whereby said rod is capable of moving the plunger in the direction of said handle only and is movable in the opposite direction without moving said plunger when said locking bolt is in the opening in said plunger.

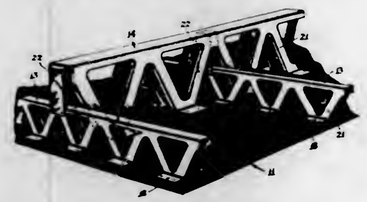


**2,389,766**
**PROCESS FOR PRODUCTION OF CALCIUM CITRATE**
**Gordon Manley Cole, Corona, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California**
**Application April 22, 1941, Serial No. 389,730**
**4 Claims. (Cl. 260—527)**



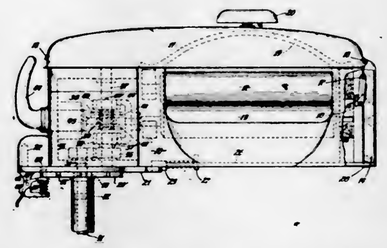

4. A process for producing calcium citrate from citrus fruit comprising comminuting the fruit, roughly separating the comminuted fruit product thus obtained into a juice portion and a pulp portion, adding lime to the pulp portion in an amount equal to between 0.5 to 2.0 percent by weight of the pulp, mixing the added lime with the pulp, thereafter pressing the pulp to recover a substantial portion of its liquid content to form a press liquid portion, adjusting the hydrogen ion activity of the juice portion to within a pH range of about 2.6 to about 3.2 by the addition of lime, combining the juice portion and press liquid portion and storing the combined liquid for a time sufficient to allow flocculation to take place, clarifying the combined liquid and subsequently neutralizing the clarified liquid with lime and heating to precipitate calcium citrate.

**2,389,767**
**STRUCTURAL FRAME**
**Nelson W. Dalton, Moorestown, N. J., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania**
**Application September 1, 1943, Serial No. 500,786**
**6 Claims. (Cl. 189—34)**



1. A strong, light, and rigid skin sheet and frame construction adapted for aircraft and the like comprising a generally U-shaped beam having a continuous plate as the back of the U, side webs integral with the back plate and having inclined struts and lightening openings therebetween, the struts on each side being joined in pairs at apices opposite said back plate, the struts on the two sides being coaxially arranged in pairs and the alternate openings of each side web extending through the side of the beam opposite the back plate, and outturned feet on the strut apices which are spaced apart longitudinally and transversely, the spaced feet being secured to a skin sheet.

**2,389,768**
**PIVOTAL FRAME WRINGER**
**Nicholas L. Etten, Waterloo, Iowa**
**Application April 11, 1941, Serial No. 388,024**
**4 Claims. (Cl. 68—253)**

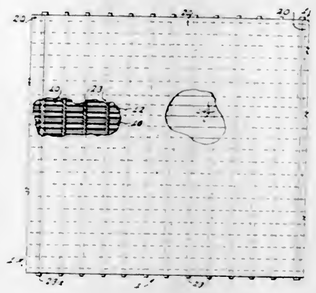


1. In a wringer, the combination of a wringer frame including a plurality of rolls rotatively mounted in said frame; pressure means for the rolls; a drive shaft; a reversing gear mechanism connected with the drive shaft and including forward driving gears, and reverse driving gears; and a roll stop mechanism arranged to connect and disconnect the rolls to and from the drive shaft; a gear housing portion surrounding the reversing gear mechanism and roll stop mechanism; a mounting plate; and a pivot mounted on the mounting plate and connecting said plate with the wringer frame and gear housing; the entire wringer frame and gear housing being pivotally mounted on the mounting plate at a point substantially spaced away from the end of the gear housing opposite the roll supporting frame, so that all portions of the gear housing and frame are arranged for and subject to movement around the pivot by exterior forces applied to any point on the gear housing or frame; the roll stop mechanism comprising connectible members between the drive shaft and reversing mechanism disconnectible by pivotal movement of the frame; and a release actuating mechanism operatively interconnecting the shiftable portions of the frame and gear housing with the relatively stationary mounting plate and adapted to operate in response to pivotal movement between the frame and the plate, and to release the pressure effective between the rolls.

**2,389,769**
**DOUBLE-WALL STRUCTURAL MATERIAL**
**Robert H. Folsom, Los Angeles, Calif.**
**Application August 25, 1944, Serial No. 551,216**
**5 Claims. (Cl. 20—0.5)**

1. In combination, a pair of double-wall units arranged in parallel relationship on a common plane, each unit comprising a sheet of rigid organic material having a short extent directed forwardly along a given plane, followed by an acute bend, followed by a second extent directed diagonally outwardly rearwardly to a second plane

which is in spaced relationship to the first plane, followed by a second bend, followed by a third extent directed forwardly along the second plane, followed by a third acute bend, followed by a fourth extent directed inwardly rearwardly diagonally to the first plane, followed by a fourth acute bend, followed by several successive repetitions of the aforesaid extents and bends in the order named; the several first named extents being in edge to edge juxtaposed arrangement and forming a substantially continuous smooth surfaced wall on the first plane; the several third



named extents being in edge to edge juxtaposed arrangement and forming a substantially continuous smooth surfaced wall on the second plane; the several second and fourth named diagonal extents dividing the space between the said two walls into a plurality of transverse channels each of predetermined polygonal cross section; the combination further including a load-bearing member disposed between the aforesaid units and embodying projecting triangular blocks some fitted snugly into corresponding channels of one unit and some fitted snugly into corresponding channels of the other unit.

---

**2,389,770**
**POWDERED FLAVOR**
**Kenneth M. Gaver, Columbus, Ohio, assignor, by mesne assignments, to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio**
**Application December 2, 1939, Serial No. 307,245**
**6 Claims. (Cl. 99—140)**

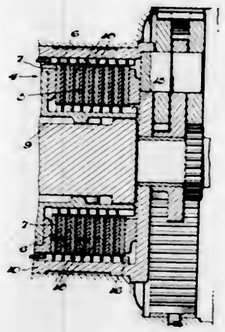
1. A new article of manufacture comprising rice starch the granules of which have a coating of flavoring material and an anti-heat-shocking agent.

---

**2,389,771**
**EXPLOSIVE COMPOSITION**
**Kenneth M. Gaver, Columbus, Ohio, assignor to The Komel Corporation, Dayton, Ohio, a corporation of Delaware**
**No Drawing. Application February 15, 1941, Serial No. 379,128**
**10 Claims. (Cl. 52—11)**

1. An explosive composition comprising nitroglycerin and an absorbent material for said nitroglycerin consisting of a metal starchate compound selected from the group consisting of alkali metal starchate and ammonium starchate in which the metal is attached through an oxygen atom to a carbon atom in the 2-position of the starch molecule.

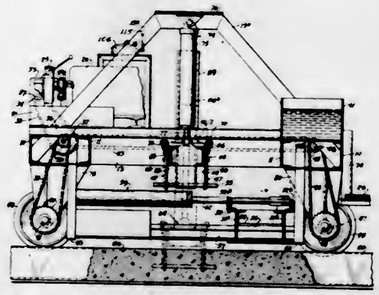
**2,389,772**
**CLUTCH**
**Samuel Gilbert, Verona, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application August 8, 1944, Serial No. 548,559**
**4 Claims. (Cl. 192—69)**



1. In a clutch pack, the combination of a clutch disc constructed of a relatively hard material, and a clutch disc constructed of a relatively soft and powdered material characterized by its abrasiveness when comminuted and its susceptibility to comminution when subjected to the clutching action of said first defined disc, said first defined disc being provided on its clutching face with a radially disposed slot for collecting and dispersing the comminuted material from said second defined disc to eliminate the abrasive wear on and prolong the effective use of said second defined disc.

---

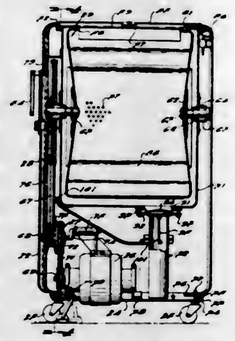
**2,389,773**
**DOWEL SETTING MACHINE**
**John A. Golden, San Diego, Calif.**
**Application January 26, 1944, Serial No. 519,737**
**9 Claims. (Cl. 94—39)**



1. In a dowel setting machine, the combination of a frame, plunger mechanism mounted thereon for embedding dowels in wet concrete, a dowel rack movably secured to said frame, and means for removing dowels from said rack to said plunger mechanism.



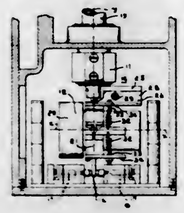
**2,389,774**
**WASHING MACHINE**
**Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware**
**Original application May 19, 1939, Serial No. 274,478. Divided and this application December 31, 1941, Serial No. 425,059**
**7 Claims. (Cl. 220—10)**



7. In a washing machine, a base, side panels having downwardly extending flanges secured to said base, the sides of said panels being deflected inwardly and flanged outwardly, front and rear panels having the sides directed inwardly and projecting over said flanges of the side panels and further deflected inwardly and downwardly at the top to extend over the top of the inwardly deflected portions of the side panels when forced downwardly thereover, means for securing the bottoms of said panels to said base frame, inwardly directed flanges on said panels, a tub having an outwardly directed flange supported by said inwardly directed flanges on the panels, and a cover supported by the flange of said tub for enclosing the opening formed by said panels.

---

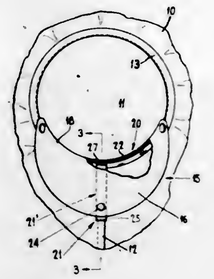
**2,389,775**
**GYROSCOPE**
**Clinton R. Hanna, Pittsburgh, and Stanley J. Mikina and Lawrence B. Lynn, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Original application September 27, 1941, Serial No. 412,612. Divided and this application November 6, 1944, Serial No. 562,210**
**3 Claims. (Cl. 74—5)**



1. In combination, a body member movable about a predetermined axis, a gyro, swivel means connecting the gyro to the body member and having its axis parallel to or coincident with said member axis, said gyro having its spin axis extending transversely of the swivel axis and having an axis of precession normal both to the spin axis and to the swivel axis, a coupling between the body member and the gyro and including friction surfaces arranged to transmit torque from the body member to the gyro about the swivel axis and to provide for precessional movement of the gyro about the precession axis, and centering springs acting on the gyro about the precession axis, said friction surfaces being engageable under normal pressure due to gyroscopic action to provide damping friction torques effective about the precession axis.

---

**2,389,776**
**DRESS SHIELD AND CROSSED-TAPE SUPPORT**
**Ethyl Harpootlian, Brooklyn, N. Y.**
**Application August 24, 1944, Serial No. 550,996**
**2 Claims. (Cl. 2—56)**



1. In a crescent-shaped protecting shield for a dress sleeve having crossed seams including a vertically positioned seam centrally of said sleeve, said shield having members adapted to fit, respectively, inside and outside of said sleeve; an interchangeable support or adapter made of crossed fabric tapes substantially co-extensive with said shield, said tapes being flexible and adapted to fit solely within the armpit portion of said dress, said tapes being stitched together in unitary relation at said crossed portion, said adapter being stitchable at said crossed portion to said seams, fastener elements secured at each end portion of said tapes, said end portions extending slightly beyond said fastener elements and forming pre-measured extensions clear of said shield and being stitched to said seams, the portions of said tapes intermediate said stitched crossed portion and said fastener elements being unsecured to said sleeve, and co-operating fastener elements secured to said dress shield and positioned to engage said fastener elements on said support.

---

**2,389,777**
**BOND TIGHTENER AND SEALER**
**Manly S. Harris, San Francisco, Calif.**
**Application April 1, 1944, Serial No. 529,150**
**2 Claims. (Cl. 24—19)**

1. A bond tightener and sealer comprising a hexagonal reel; spaced lugs mounted upon one side of said reel and intermediate the ends thereof and having their adjacent faces cupped; a bar

loosely mounted for limited movement between said cupped lugs and arranged in substantially parallel spaced relation to said reel; and means arranged to engage either end of said hexagonal



reel to rotate the same and the bar thereon to wind around them and tighten and seal the ends of a flexible band embracing a cargo and having said ends inserted between said reel and bar.

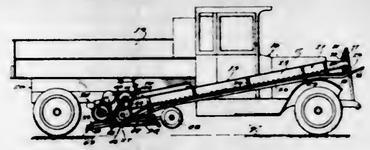
---

**2,389,778**
**POWER PLANT FOR AIRCRAFT**
**Alfred Hubert Roy Fedden and Frank Morgan Owner, Bristol, England, Frederick Metcalf Thomas, North Adams, Mass., and Stanley Walter Mansell, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company**
**Application January 14, 1942, Serial No. 426,778**
**In Great Britain January 17, 1941**
**1 Claim. (Cl. 74—389)**



In a power plant for aircraft, the combination with two engines each having a power shaft and arranged with the power shafts in line with one another, a pair of driving bevel gears coaxial with the power shafts and associated one with each power shaft, a pair of engine clutches associated one with each power shaft and arranged each to clutch its power shaft to the associated driving bevel gear, a pair of coaxial driven bevel gears each meshing with both driving bevel wheels, two coaxial airscrew shafts, coaxial with and associated one with each of the driven bevel gears, and a pair of airscrew clutches associated one with each airscrew shaft and arranged each to clutch its airscrew shaft to the associated driven bevel gears.

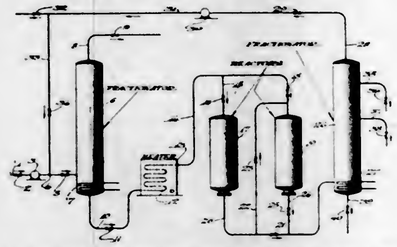
**2,389,779**
**COAL TRUCK UNLOADING DEVICE**
**Eugene H. Heller, Arlington Heights, Ill.**
**Application November 17, 1944, Serial No. 563,817**
**19 Claims. (Cl. 224—29)**



1. A device for unloading coal from automotive vehicle coal trucks and adapted to be transported by an automotive vehicle coal truck, said device comprising a supporting frame, a substantially channel-shaped coal chute having a coal-receiving end portion mounted upon the body of said supporting frame and having a coal-discharging end portion projecting beyond and remote from the body of said supporting frame, a flexible endless conveyor belt for conveying coal along said coal chute from the coal-receiving end portion to the coal-discharging end thereof, a power unit carried by the body of said supporting frame adjacent the said coal-receiving end portion of said coal chute, said device including power transmission means arranged adjacent the said coal-receiving end portion of said coal chute and operable by said power unit for driving said conveyor belt, a retractable wheel-bearing carriage arranged below the body of said supporting frame and pivotally connected thereto, a pair of supporting wheels mounted upon said wheel-bearing carriage below and intermediate the ends of said coal chute, means including a manually operable member carried by said supporting frame for pivoting the said wheel-bearing carriage and the said supporting wheels carried thereby relative to said supporting frame into lowered and effective position below said coal chute and between the ends thereof and for retracting the said wheel-bearing carriage and the said supporting wheels carried thereby relative to the said supporting frame into raised and retracted position below said coal chute and between the ends thereof, said supporting wheels when in lowered and effective position bearing the weight of said supporting frame and of said power unit and of said transmission means and of said coal chute and serving as a pivot or fulcrum upon which the relatively lighter and discharge end portion of said coal chute may be lifted off from carrying position on the body of an automotive vehicle coal truck and raised back into carrying position thereon, and means arranged adjacent the coal-receiving end portion of said coal chute for releasably attaching said device upon an automotive vehicle truck for transportation thereby, said attaching means including a supporting member adapted to be mounted upon an automotive vehicle coal truck and a supporting member mounted upon the said coal truck unloading device adjacent the coal receiving end portion thereof and detachably attachable to the said first-named supporting member and releasable from engagement therewith by lowering the said wheel-bearing supporting carriage and the said supporting wheels carried thereby into lowered and effective position and then depressing the discharge end portion of said coal chute about said supporting wheels as a pivot or fulcrum so as to raise the said coal-receiving end portion of said device and thus detach the said second-named supporting member from the said first-named supporting member.



**2,389,780**
**CONVERSION OF ETHYLENE**
**Vladimir N. Ipatieff and Vladimir Haensel, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application June 22, 1942, Serial No. 447,958**
**9 Claims. (Cl. 260—683.15)**



1. A process for converting ethylene into substantial yields of butylene which comprises reacting ethylene in the presence of a calcined composite catalyst comprising silica metallic zinc, alumina and zirconia.

---

**2,389,781**
**LUMINESCENT COATING MATERIAL**
**Sampson Isenberg, Chicago, Ill., assignor to General Luminescent Corporation, Chicago, Ill., a corporation of Illinois**
**No Drawing. Application June 22, 1942, Serial No. 447,932**
**15 Claims. (Cl. 252—301.3)**

1. A luminescent coating material comprising a vehicle, a luminescent pigment and a partial ester of a mono-carboxylic acid containing at least 6 carbon atoms and a polyhydroxy substance, said luminescent pigment being of a type affected adversely by moisture and light, said partial ester functioning to retard the adverse effect of moisture and light on the luminescent pigment.

---

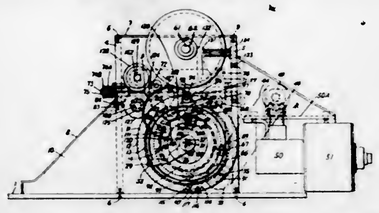
**2,389,782**
**FLARE OR FUSEE**
**Samuel Jackson, Jr., Haddonfield, N. J.**
**Application September 26, 1944, Serial No. 555,791**
**16 Claims. (Cl. 102—70)**



1. A flare or fusee having an elongate body formed from compacted combustible slow-burning colored-flame producing material with a transverse opening near one end thereof and a longitudinal opening extending from said end and meeting the transverse opening; a fuse within the longitudinal opening having a match-head exposed in the transverse opening; a starter element within the transverse opening carrying material adapted to cause ignition of the match-head on the fuse by abrasion therewith, said element having a projecting grasp by which it can be withdrawn to set off said fuse.

---

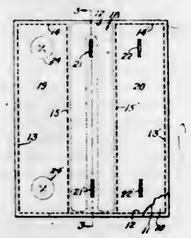
**2,389,783**
**CUTTING AND COUNTING MACHINE**
**Gilbert J. Kennedy, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 29, 1944, Serial No. 520,355**
**6 Claims. (Cl. 164—42)**



4. An apparatus for measuring, cutting and counting metal strip, comprising a manually rotatable dial plate, an index ring surrounding said dial plate, a cam having a rotatable cam shaft, means for operating said cam shaft, a knife operated by said cam and cam shaft to cut said strip, means synchronizing said rotatable dial plate with the operation of said knife, means associated with said index ring to obtain a predetermined setting of said dial plate, ratchet means operating said dial plate for measuring the strip and presenting it to the knife and to control the knife to cut a predetermined number of pieces of said metal strip, and a device to stop the movement of strip when the predetermined number of strips are cut.

---

**2,389,784**
**TIE-HOLDING ATTACHMENT**
**Walter I. Kennedy, Boston, Mass.**
**Application October 30, 1943, Serial No. 508,317**
**5 Claims. (Cl. 24—49)**

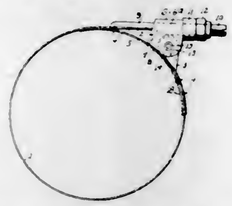


1. As a new article of manufacture, a tie-holding attachment for shirts comprising a swatch-like body of cloth provided with a medially disposed buttonhole for the reception of a button of the shirt at the front of the latter by which the attachment is held in position thereon, and

having flaps at the opposite sides of said buttonhole to be folded inwardly around an existing tie, and means to fasten said flaps together in superposed relationship to confine the tie within the attachment while the latter is held against up and down and sidewise displacement by the button of the shirt, said means comprising a button secured in position upon the exterior of one of said flaps and a buttonhole formed in the other flap for the reception of said last-mentioned button.

---

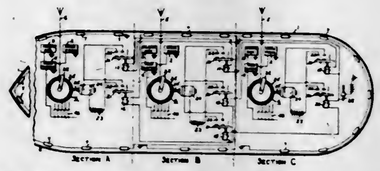
**2,389,785**
**HOSE CLAMP**
**James T. King, Burbank, Calif.**
**Application March 9, 1944, Serial No. 525,699**
**8 Claims. (Cl. 24—19)**



1. A hose clamp comprising: a flexible strap having end portions of reduced width; a threaded bolt secured to one of said end portions as an extension of the strap; a floating anchor including a member of substantially U-shape in cross-section, through which said bolt passes, and an anchoring pin secured in said U-shaped member and about which pin the other reduced end portion of the strap is freely looped, said other end being secured to the strap proper; and a nut on said bolt and engaging said U-shaped member.

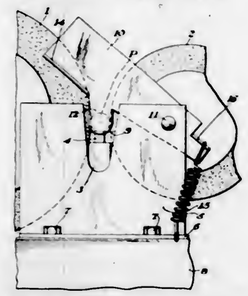
---

**2,389,786**
**METHOD OF AND APPARATUS FOR SIGNALING**
**Koby Kohn, New York, N. Y., assignor to Arthur F. Hubbard, Tipp City, Ohio**
**Application October 6, 1942, Serial No. 460,973**
**10 Claims. (Cl. 177—380)**



3. A radio transmitting system for ships, said system comprising a plurality of radio transmitting sets with individual antenna, said sets including carrier frequency oscillators which are tuned to different frequencies as between the different sets, means for modulating the carrier frequencies by impulses which represent a message concerning the location of the ship, means for rendering inoperative each transmitter set only so long as no substantial damage has been sustained by the ship, said means including closed circuits distributed throughout the ship and including frangible current conducting elements, said elements being adapted when ruptured during the sustainment of damage by the ship immediately to cause energization of one or more radio sets to transmit said message.

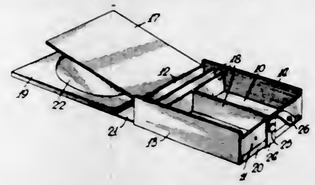
**2,389,787**
**CENTERLESS GRINDER GAUGING MECHANISM**
**Ernest L. Kuhns, Cleveland, Ohio, assignor to The Cleveland Metal Hardening Company, Cleveland, Ohio, a corporation of Ohio**
**Application August 25, 1944, Serial No. 551,133**
**4 Claims. (Cl. 51—103)**



1. In an attachment for centerless grinders and the like, a frame member, a gate member pivotally secured to said frame member and having gauging means adapted to be brought into abutting relationship with one end of the work to be ground when said gate member is swung in one direction, and spring means normally biasing said member to swing in the opposite direction.

---

**2,389,788**
**TRAVELING CASE**
**Harvey Lathrop, Forest Hills, N. Y.**
**Application May 23, 1945, Serial No. 595,262**
**9 Claims. (Cl. 132—79)**



1. In a traveling case, a box and an accessory device adapted to be associated in interfitting but separable relationship, said box having a bottom wall and upstanding front, rear, and side walls, the side walls having extensions projecting upwardly and downwardly beyond the upper and lower edges, respectively, of said front and rear walls, said accessory device comprising two substantially flat panels adapted to overlie and underlie the box, respectively, and to fit snugly between said upwardly-projecting and downwardly-projecting extensions, respectively, and an intermediate portion hingedly connecting said panels and adapted to overlie the rear wall of the box.

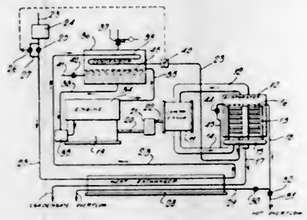
---

**2,389,789**
**DISTILLATION METHOD AND APPARATUS**
**Allen Latham, Jr., Jamaica Plain, Mass., assignor to Arthur D. Little, Inc., a corporation of Massachusetts**
**Application February 10, 1943, Serial No. 475,401**
**5 Claims. (Cl. 202—75)**

1. In a method of distillation wherein vapor is evolved from a solution in a vaporization zone,



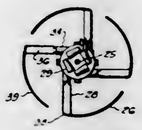
the evolved vapor is compressed by a compressor to a pressure at which the condensing temperature is substantially above the boiling point of the solution, compressed vapor is condensed in out-of-contact heat exchange relation with said solution in said vaporization zone, hot condensate is withdrawn from said vaporization zone, fresh solution to be distilled is introduced into said vaporization zone, and power for operating said compressor is supplied by an internal combustion engine, the steps comprising heating the fresh solution introduced into said vaporization



zone sequentially and in series relation (*a*) in a heat exchange zone wherein said fresh solution is heated by contact with a surface heated by hot condensate withdrawn from said vaporization zone and (*b*) in a heat exchange zone wherein said fresh solution is heated by contact with a surface supplied with heat derived from said internal combustion engine in cooling same, the heat supplied to said incoming solution in zone (*a*) being greater than the heat supplied to the incoming solution in zone (*b*), and the average temperature differential maintained in zone (*a*) being at least 30° F.

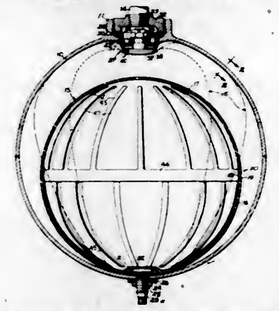
---

**2,389,790**
**REVOLVING CHOPPER**
**Lawrence W. Leeper, Dallas, Tex.; Naomi Kerrick Leeper executrix of said Lawrence W. Leeper, deceased**
**Application May 20, 1944, Serial No. 536,455**
**8 Claims. (Cl. 97—213)**



1. A revolving chopper for an agricultural machine including a hub, a plurality of chopping elements each including a flat arm and an arcuate cutting blade, and means for securing the arms to the hub, each blade being bent acutely and forwardly of its flat arm at the outer end of said arm to provide a continuous cutting edge running with the blade in an arc of constant radius from the hub and also curved transversely in the arc of the blade in front of the arm, whereby the blade at the juncture with the arm presents a cutting edge in the same arc as the entire cutting edge of said blade to cause the blade to enter and slice clearly through the soil in a continuous unbroken arc.

**2,389,791**
**ACCUMULATOR**
**Wells A. Lippincott, Evanston, Ill., assignor to Ideal Roller & Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application April 6, 1944, Serial No. 529,714**
**5 Claims. (Cl. 138—30)**

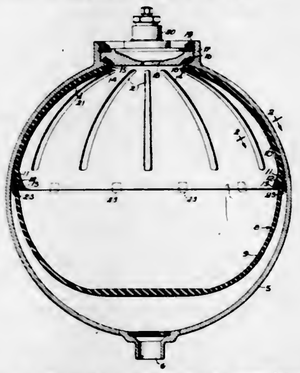


1. An accumulator having, in combination, a spherical tank having a fluid outlet, a generally spherical bladder of somewhat smaller size, and means securing one portion of the bladder against the interior of said tank so that the unsupported portion will be stretched during inflation of the bladder, said last mentioned portion having thickened portions on the inner side thereof extending along annularly spaced lines toward said tank outlet so as to provide areas which stretch to a lesser degree than the intervening areas and temporarily form external channels permitting the escape of any liquid becoming trapped between said unsupported portion and the internal tank wall when the bladder is expanded against the wall.

5. An accumulator diaphragm comprising a flexible walled inflatable bag, and meridial ribs integral with and spaced around the internal wall of said bag.

---

**2,389,792**
**ACCUMULATOR**
**Wells A. Lippincott, Evanston, Ill., assignor to Ideal Roller & Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application October 25, 1943, Serial No. 507,573**
**5 Claims. (Cl. 138—30)**



1. An accumulator having, in combination, a spherical tank, and a similarly shaped bladder

supported at one end by the tank so that the adjacent portion is stretched as an incident to full expansion of the bladder within the tank, said first mentioned portion only having alternate thick and thin areas annularly spaced and differently stretched during said expansion whereby to create meridian channels for the escape of fluid becoming trapped between the tank and said first mentioned portion.

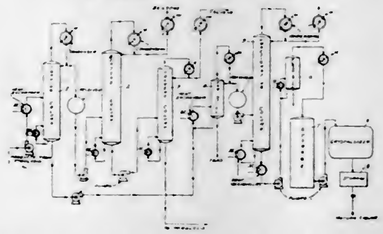
---

**2,389,793**

## PRODUCTION OF STYRENE

**John W. Livingston, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application July 2, 1942, Serial No. 449,522**
**6 Claims. (Cl. 260—669)**



1. The process of recovering styrene from a styrene-containing hydrocarbon mixture resulting from the pyrolysis of hydrocarbons, which comprises subjecting said mixture to distillation to separate benzene, toluene and lower-boiling hydrocarbons as distillate from the styrene-containing hydrocarbon mixture, subjecting the residue of said distillation to a flash distillation to separate therefrom a substantial proportion of tars and hydrocarbons having boiling points substantially in excess of that of styrene, subjecting the distillate of said flash distillation to fractional distillation to separate ethylbenzene and to leave a residue containing at least approximately 65% and not substantially more than approximately 96% of styrene, subjecting said residue to flash distillation to remove tars, and thereafter depositing styrene from the distillate of said flash distillation by cooling the distillate in heat-transfer relationship with a heat-abstracting surface under sufficiently static conditions so as to form a coherent deposit of crystalline styrene thereon, separating the liquid fraction from the solid coherent deposit without substantially disturbing the solid deposit, sweating said solid deposit by gradually raising the temperature thereof, whereby the solid deposit is washed by a portion of the melted solid and adhering liquid is displaced from the remaining solid deposit by the melted solid, and subsequently melting the remaining solid deposit and separately collecting the same.

---

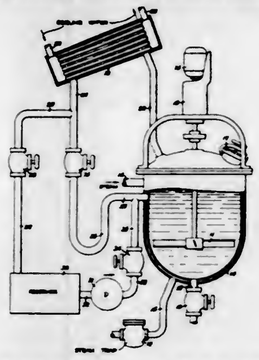
**2,389,794**

## WRINKLE COATING FROM NONCONJUGATED OILS

**Enrique L. Luáces, Dayton, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del., a corporation of Delaware**

**Application January 23, 1942, Serial No. 427,962**
**1 Claim. (Cl. 260—22)**

A wrinkle coating composition comprising a resin resulting from the reaction at 400° F. of 60 parts of glycerol, 120 parts of phthalic anhydride and 102 parts of fatty acids; from 0.5 to 3 per cent of a top drier; and hydrocarbon diluent; said fatty acids having been produced by the treatment of an oil selected from the group consisting of cotton-seed oil, corn oil and peanut oil with an alcoholic ammonia solution under reflux



to cause rearrangement of the non-conjugated double bonds in the acid radicals of the oil to conjugated double bonds and to cause formation of fatty acid soaps, and then isolating the fatty acids.

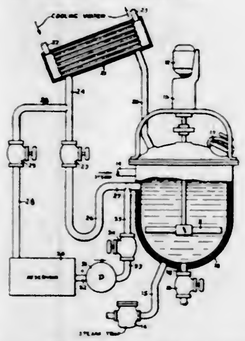
---

**2,389,795**

## WRINKLE COATING FROM NONCONJUGATED OILS

**Enrique L. Luáces, Dayton, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del., a corporation of Delaware**

**Original application January 23, 1942, Serial No. 427,962. Divided and this application September 19, 1942, Serial No. 459,033.**
**1 Claim. (Cl. 260—22)**



A wrinkle coating composition comprising a resin resulting from the reaction at 400° F. of 60 parts of glycerol, 120 parts of phthalic anhydride and 102 parts of fatty acids; from 0.5 to 3 per cent of a top drier; and hydrocarbon diluent; said fatty acids having been produced by the treatment of an oil selected from the group consisting of cottonseed oil, corn oil, and peanut oil with an alcoholic solution of an alkali metal hydroxide under reflux to cause rearrangement of the nonconjugated double bonds in the acid radicals of the oil to conjugated double bonds and to cause formation of fatty acid soaps, and then isolating the fatty acids.



**2,389,796**

## AQUEOUS POLYISOBUTYLENE EMULSIONS

**Gerry P. Mack, Jackson Heights, N. Y., assignor to Advance Solvents & Chemical Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Application September 4, 1943, Serial No. 501,291**
**11 Claims. (Cl. 260—4)**

1. A process for making purely aqueous emulsions of polyisobutylene having an average molecular weight above 27,000 which process comprises the steps of kneading the polyisobutylene with an aqueous liquid and an emulsifying agent selected from the group consisting of the water soluble alkali metal and ammonium soaps of the fatty acids having more than 10 carbon atoms in the molecule and the mixtures of such soaps with the corresponding unreacted fatty acids until a thorough dispersion of the emulsifying agent and liquid in the polyisobutylene mass has been obtained and the mixture has become plastic, then causing an instantaneous inversion of the dispersion by adding thereto a peptizing agent selected from the group consisting of the mineral oil sulfonates and the alkali metal sulfonates of the alkyl-aryl compounds containing at least 12 carbon atoms in the molecule, at least three of said carbon atoms being disposed in one aliphatic chain, and diluting the resulting paste with an aqueous liquid.

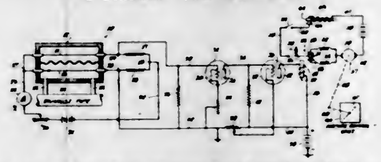
---

**2,389,797**

## MIXTURE CONTROL SYSTEM

**Charles I. MacNeil, Glen Ridge, N. J., and Frank C. Mock, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Application September 5, 1942, Serial No. 457,506**
**4 Claims. (Cl. 123—119)**



1. An automatic mixture control system comprising an exhaust gas analyzer circuit of the type in which variations from a known exhaust gas composition result in the flow of an electrical current of value varying in accordance with the departure of the exhaust gas composition from a determined standard, a reversible motor, a circuit for energizing said motor, a mixture control shaft rotatable by said motor, means included in said analyzer circuit for causing said motor to operate directionally to change the fuel mixture in response to deviation from the determined standard condition, and thus restore the exhaust gas composition to the determined standard, a temperature-controlled means in the motor circuit, and a heater electrically energized by the motor circuit so as to cause said temperature-controlled means to periodically interrupt said circuit independently of the gas composition condition then prevailing.

---

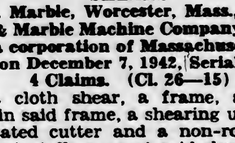
**2,389,798**

## PITCH CONTROL DEVICE FOR ROTOR BLADES

**David W. Main, Denver, Colo.**

**Application January 13, 1943, Serial No. 472,269**
**2 Claims. (Cl. 244—17)**

2. In combination with a propeller mounted for rotation about a vertical axis and having a plurality of blades mounted for pitch adjustment, means for changing the blade pitch while the propeller operates comprising a two part cam plate encircling the axis of rotation of the propeller, a spring hinge connecting the two parts, means for changing the pitch of the blades in accordance with the distance from the cam to the propeller, comprising members having one end in engagement with the cam surface and the other connected with the blades by means which translates rectilinear movement of the members into rotary movement of the blades, the upper surface of the cam plate having a groove concentric with the axis of propeller rotation to resist centrifugal forces tending to move the translating devices outwardly, means for raising and lowering the cam, and means for warping the upper surface of the cam to effect a pitch variation during each propeller revolution.



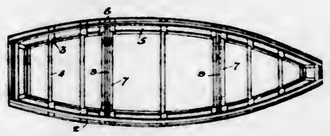
---

**2,389,799**

## SECTIONAL BOAT AND METHOD OF MAKING SAME

**Harry Albert Mallory, Saint John, New Brunswick, Canada**

**Application July 27, 1944, Serial No. 546,802**
**In Canada August 13, 1943**
**3 Claims. (Cl. 9—2)**



1. The method of making a sectional boat which consists in forming the hull of the boat; permanently mounting therein at least one pair of bulkheads extending for the full inside width of the boat and spaced apart by a sheet of destructible material, and then transversely cutting said hull in a line with the material separating said bulkheads.

---

**2,389,800**

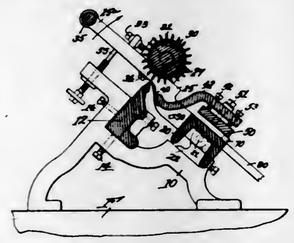
## CUTTER SHIFTING APPARATUS FOR CLOTH SHEARS

**George E. Marble, Worcester, Mass., assignor to Curtis & Marble Machine Company, Worcester, Mass., a corporation of Massachusetts**

**Application December 7, 1942, Serial No. 468,122**
**4 Claims. (Cl. 26—15)**

1. In a cloth shear, a frame, a cloth rest mounted in said frame, a shearing unit comprising a rotated cutter and a non-rotated blade, means to pivotally support said shearing unit in said frame for motion toward and away from operative relation to the cloth rest, a pivotal support for said non-rotated blade in said shearing unit, means to swing said blade about the axis of its pivotal support to positions closely adjacent to or substantially spaced from the ro-

tated cutter, and means to limit the return movement of said blade toward said cutter, whereby



the initial cutting relation in said shearing unit may be restored without loss of adjustment.

---

2,389,801
**MANUFACTURE OF STYRENE**
**William J. Mattox, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application December 10, 1942, Serial No. 468,559**
**10 Claims. (Cl. 260—669)**

1. A process which comprises forming styrene directly from ethyl cyclohexane by dehydrogenating the latter under a pressure below atmospheric in the presence of a dehydrogenating catalyst at a temperature of from about 450° C. to about 700° C. and an hourly liquid space velocity of from about 0.2 to about 5.0.

---

2,389,802
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,667**
**7 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of a phenyl amine selected from the class consisting of phenyl-2-naphthylamine, 2,4 diamino diphenyl amine, N,N diphenyl 1,4 phenylene diamine, tetrahydrophenyl 2-naphthylamine, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.

---

2,389,803
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,668**
**6 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of an alkoxy phenyl amine selected from the class consisting of 4-isopropoxy diphenyl amine and 4,4′ dimethoxy diphenyl amine, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.

2,389,804
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,669**
**7 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of a polyhydroxy benzene selected from the class consisting of 3-methyl catechol, t-butyl catechol, cyclohexyl catechol, pyrogallol, 2-phenyl hydroquinone, and 4-phenyl catechol, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.

---

2,389,805
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,670**
**7 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of a hydroxy aromatic amine selected from the class consisting of p-aminophenol, p-hydroxy-N-monobenzyl aniline, p-hydroxy-N-N-dibenzyl aniline and 4-hydroxydiphenyl amine, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.

---

2,389,806
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,671**
**6 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of a naphthol selected from the class consisting of $\alpha$-naphthol and $\beta$-naphthol, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.

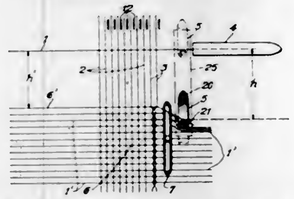
---

2,389,807
**STABILIZING ORGANO-SILOXANES**
**Rob Roy McGregor, Verona, and Earl Leathen Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application June 22, 1944, Serial No. 541,672**
**6 Claims. (Cl. 260—607)**

1. The method of stabilizing an organo-siloxane which comprises incorporating therein stabilizing amounts of an aliphatic amine selected from the class consisting of triamyl amine and ethyl phenyl ethanolamine, the organic substituents of said siloxane consisting essentially of monovalent hydrocarbon radicals attached to silicon through carbon-silicon linkages.



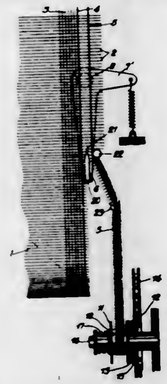
2,389,808
**DEVICE FOR MAKING FABRICS ON GRIPPER LOOMS**
**Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland**
**Application March 11, 1943, Serial No. 478,753**
**In Switzerland March 14, 1942**
**11 Claims. (Cl. 139—194)**



1. In a loom of the gripper shuttle type and producing a twisted binding of the outermost warp threads about the weft threads with the ends of the weft threads projecting beyond the twisted warp threads, a weft thread gripping means disposed reciprocatingly movable alongside the outermost warp thread and gripping the end of always the last inserted weft thread and carrying it toward and holding it against the fabric after the beat.

---

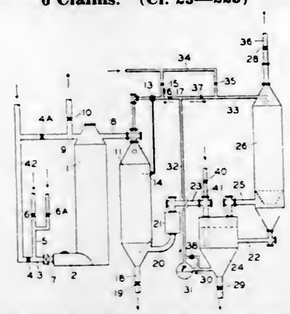
2,389,809
**METHOD AND DEVICE FOR CUTTING WEFT THREAD ENDS PROJECTING FROM THE FABRIC**
**Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland**
**Application March 18, 1943, Serial No. 479,539**
**In Switzerland June 11, 1942**
**10 Claims. (Cl. 139—302)**



1. In a loom for weaving, a mechanism for cutting the weft threads extending in a fabric between two pairs of warp threads, said mechanism comprising a knife blade positioned at a substantially right angle to the plane of the fabric and having a substantially straight cutting edge in inclined position with respect to the fabric and extending through and severing the weft threads between the pairs of warp threads when the fabric is moved in the direction running up said inclined edge, and a support member mounted on the loom swingably about an axis substantially at right angle to the fabric, said knife blade being connected with and supported by said support member.

---

2,389,810
**PROCESS FOR RECOVERING ELEMENTAL SULPHUR FROM SULPHUROUS GASES**
**William W. Odell and William Dean Harbert, El Dorado, Ark., assignors to Lion Oil Refining Company, El Dorado, Ark.**
**Application June 1, 1943, Serial No. 489,268**
**6 Claims. (Cl. 23—225)**



1. A process for producing elemental sulphur which comprises heating solid contact material within a reaction zone to a temperature of 1600°–2000° F., passing a gaseous stream containing $H_2S$ and an oxygen bearing gas through said reaction zone and over said contact material, so regulating the relative proportions of $H_2S$ and oxygen bearing gas and their rate of flow over the contact material that the temperature of the gaseous stream flowing from the reaction zone containing the contact material is approximately 1250°–1350° F. after equilibrium has been reached, whereby incomplete combustion of the $H_2S$ is produced and a gaseous stream containing sulphur vapor, $SO_2$ and $H_2S$ is formed, cooling the gas stream to a temperature which condenses and maintains the sulphur in liquid form by passing the same over solid contact material in a cooling zone and supplying sufficient cooling fluid to effect the cooling, withdrawing the condensed sulphur from the stream of gases, passing the remaining gases from the initial cooling zone into a separate cooling zone, then condensing and solidifying the sulphur vapor in the mixture by supplying sufficient quenching fluid thereto to reduce the temperature to below 248° F.

---

2,389,811
**JOINT FOR POLES AND THE LIKE**
**Herman Ozlek, Philadelphia, Pa.**
**Application July 20, 1943, Serial No. 495,511**
**9 Claims. (Cl. 287—99)**

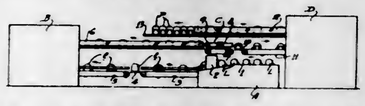


5. A joint for releasably connecting the adjoining ends of two supports in alinement com-

prising telescoping end members on said supports, and connecting means for permanently connecting said end members while permitting their telescopic assembling and disassembling in sliding and hinged engagement, the axis for hinged engagement being offset with respect to said ends and disposed in non-intersecting relationship with respect to said ends.

---

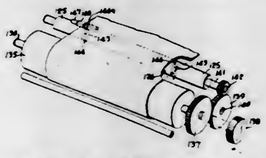
**2,389,812**
**MEANS OF PACKAGING SLICED LOAVES**
**Gustav C. Papendick, deceased, late of University City, Mo., by Elizabeth Papendick, executrix, University City, Mo., assignor to Elizabeth Papendick, University City, Mo.**
**Original application April 3, 1941, Serial No. 386,628, which is a division of application Serial No. 269,869, April 24, 1939. Divided and this application August 16, 1943, Serial No. 498,866**
**7 Claims. (Cl. 198—30)**



1. An article handling machine comprising a table, a conveyer for progressing the articles over the table in a consecutive series one behind the other in which the axes of the respective articles are in spaced parallel relation, a dead plate extending across the end of the conveyer in forwardly spaced relation thereto, means for shifting the progressed articles transversely to their initial path of travel for arrangement upon the dead plate in consecutive groups of axially aligned articles, and a second conveyor operable in timed relation to the first conveyer for progressing the series of axially aligned groups.

---

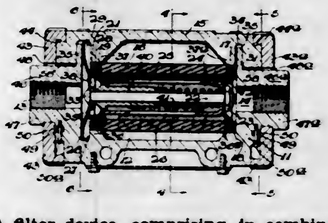
**2,389,813**
**PIN WHEEL REGISTER**
**William C. Pfeiffer, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio**
**Original application February 6, 1941, Serial No. 377,715. Divided and this application October 16, 1941, Serial No. 415,237**
**4 Claims. (Cl. 197—133)**



1. An apparatus specially adapted for feeding a plurality of superposed paper sheets through a typewriter over the platen thereof and maintaining them continuously in determined superposed alignment over the entire surface area of the sheets to simultaneously position superposed type lines on the sheets at the typing level of the machine including, a rotatable platen over which a plurality of superposed paper sheets are moved in such a manner that they encompass a substantial portion of the circumference of the platen of the typewriter when moving thereover through the typewriter, and feeding wheels having a plurality of needles extending radially therefrom positioned above the platen of the typewriter and to the rear of the superposed sheets as they pass over the platen to cause the needles to pierce the paper sheets after they have passed through the machine and beyond the typing level thereof and provide the sole means for feeding the paper sheets over the platen at the peripheral speed of rotation of the platen, said needles being spaced radially in said wheels in a manner that at least one needle is always extending through the paper sheets passing over the platen to prevent any shifting of the sheets with respect to one another to maintain superposed type lines on the sheets continuously in superposed alignment whereby to simultaneously position them at the typing level and cause the radially outermost sheet passing over the platen to feed at a greater surface speed than the radially innermost sheet to thereby continuously maintain juxtaposed alignment between adjacent sheets.

---

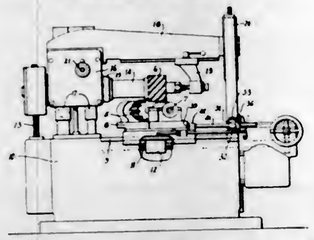
**2,389,814**
**FILTER**
**William B. Pond, West Englewood, and Guild R. Holt, Hohokus, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application September 10, 1943, Serial No. 501,862**
**2 Claims. (Cl. 210—164)**



1. A filter device, comprising, in combination, a casing formed of a clear plastic material, a fluid medium inlet channel provided at one end of said casing, a fluid medium outlet channel provided at the opposite end of said casing, a porous tubular filter unit positioned in said casing in longitudinal alignment with said inlet and outlet channels, said porous tubular filter unit open at one end to said outlet channel, a valve opening provided at the opposite end of said tubular filter unit for connecting said inlet and outlet channels through said tubular filter unit, a valve member mounted within said tubular filter unit and longitudinally movable in relation thereto, spring means provided within said tubular filter unit for normally biasing said valve member in such a manner as to close said valve opening to said inlet channel, a third channel formed within said casing and opening at one side of said casing, said third channel connected to said inlet channel, a leaf spring mounted in said third channel and biasing said tubular filter unit longitudinally toward said outlet channel in such a manner as to fasten said one end of said tubular filter unit at the inner end of said outlet channel, a removable cap member extending longitudinally on said casing for closing the open side of said third channel, fastening members mounted at opposite ends of said casing for securing said cap member in position, said fastening members rotatably adjustable for fastening and releasing said cap, and said leaf spring having a turned over end portion whereby said leaf spring may be manually removed upon release of said cap so as to enable the removal of said tubular filter unit from said casing.



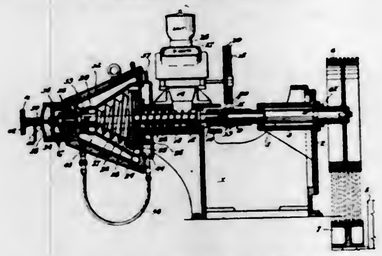
**2,389,815**
**MACHINE FOR HOBBING**
**Stafford M. Ransome, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois**
**Application July 16, 1942, Serial No. 451,104**
**3 Claims. (Cl. 90—4)**



1. In combination with a machine for hobbing helical gears having hob and gear blank supports rotatable in synchronism and mechanism for relatively feeding the supports along a rectilinear path in synchronism with the rotation of said hob and blank, a stationary stop, a member adjacent said stop mounted on the machine for movement during feeding of said movable support, a second stop mounted on said member for adjustment toward and away from said first stop, and a gauge having oppositely facing abutments engageable with the opposed surfaces of said stops when the latter are separated and accurately spaced apart a multiple of the linear pitch of the helical gear cut by said hob, said gauge being operable when placed between said stops to determine a measured retraction of said movable support.

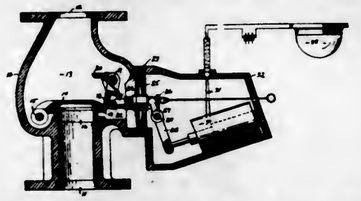
---

**2,389,816**
**NUT GRINDING MACHINE**
**Jonathan C. V. Richardson, Columbus, Ohio**
**Application October 14, 1942, Serial No. 461,934**
**2 Claims. (Cl. 241—43)**



1. Apparatus for producing nut butter compositions comprising a casing formed with axially aligned conveyor, grinding and homogenizing chambers, said conveyor chamber being formed with a material inlet, a worm-type conveyor rotatably mounted in said conveyor chamber, a stationary grinding plate mounted in said grinding chamber, a complemental opposed grinding plate rotatable with said conveyor, a spirally bladed substantially conical homogenizer positioned in said homogenizing chamber beyond said grinding plates and mounted for axial rotation in unison with said conveyor and movable grinding plate, and an outlet for reduced material communicating with one end of said homogenizing chamber.

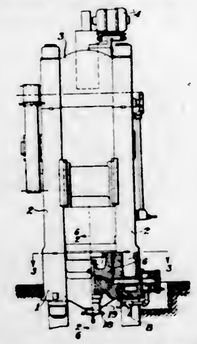
**2,389,817**
**VALVE FOR SPRINKLER SYSTEMS**
**Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Company of America, Youngstown, Ohio, a corporation of Delaware**
**Application March 10, 1944, Serial No. 525,929**
**5 Claims. (Cl. 169—19)**



1. In a deluge valve including a valve casing enclosing a chamber and formed with an opening into said chamber, a clapper pivotally mounted in said chamber, and a keeper engaging said clapper to maintain said clapper in closed position; mechanism controlling release of said keeper comprising a housing affixed on said casing and having a passage in alignment with said opening, a lever pivoted in said housing, a keeper bar mounted for motion in said housing, the said lever engaging said keeper bar, one end of the said keeper bar extending through said aligned opening and passage and attached to said keeper, and a solenoid including a plunger for moving said lever.

---

**2,389,818**
**PRESS**
**Fredrich J. Rode and Meredith R. Hatch, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware**
**Application July 17, 1943, Serial No. 495,110**
**7 Claims. (Cl. 100—70)**



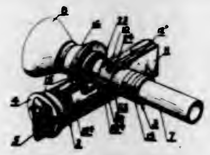
1. In a press of the character described, a base, a bed movable vertically with respect to said base, said bed being movable in response to a fluid, a motor, and a screw-actuated stop driven by said motor for limiting the extent of movement of said bed.

---

**2,389,819**
**DOOR LOCK**
**Walter R. Schlage, Burlingame, Calif.**
**Application July 13, 1944, Serial No. 544,682**
**4 Claims. (Cl. 292—337)**

4. In a lock of the character described, an elongated latch bolt housing presenting spaced side

walls with aligned openings formed in said walls, a sleeve shaped spindle housing insertible through said openings and being disposed at right angles to the latch bolt housing when inserted, a central lug on the spindle housing extending longitudinally thereof, a stop lug disposed at one end thereof and spaced therefrom, an end lug at the opposite end of the central lug and spaced therefrom, a notch formed in each side wall of the latch bolt housing and in communication with



the openings formed therein, said notches forming a clearance for the lugs on the spindle housing when inserted, said spindle housing being rotatable when the stop lug engages one side wall of the latch bolt housing, and when rotated bringing the central lug into engagement with the inner faces of the side walls of the latch bolt housing to form an interlock between the housings, and screw means engageable with the spindle housing to position and secure the spindle housing after the rotational interlock has been made.

---

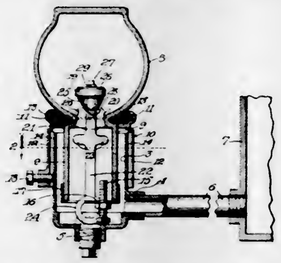
**2,389,820**

## LIQUID-SUPPLYING DEVICE

**Joseph L. Schwabe, Jr., West Allis, Wis., assignor, by mesne assignments, to Carl Backlin, Burlington, Wis.**

**Application May 23, 1942, Serial No. 444,211**

**1 Claim. (Cl. 137—68)**



A device of the character described comprising a cup, a container extending into said cup and open to the latter, a band surrounding the open end of said container and having a lug, and a stop member on said lug extending into, and seated against, said cup, said stop member being adjustable on said lug to determine the elevation of said container in said cup.

---

**2,389,821**

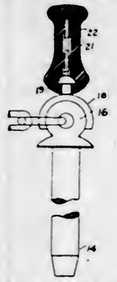
## SAFETY MINE CAR COUPLING PIN

**James W. Shealy, Jasper, Ala.**

**Application September 7, 1944, Serial No. 553,016**

**5 Claims. (Cl. 213—188)**

5. A safety attachment for mine car coupling pins comprising a metal button, a yoke secured to the coupling pin and to which the button is attached, a reinforcing chain secured to the button, and an elongated resilient rubber handle vulcanized to the button and the reinforcing



chain and forming a longitudinal extension of the pin.

---

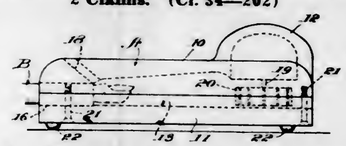
**2,389,822**

## NAIL POLISH DRIER

**Paul G. Simmons, North Bergen, N. J.**

**Application June 28, 1944, Serial No. 542,549**

**2 Claims. (Cl. 34—202)**



1. A nail polish drier, comprising upper and lower body sections having an air-way provided with a narrow rear neck portion and a flared forward portion formed interiorly thereof, and also provided with finger and thumb receiving passages opening through one edge and communicating with the flared forward portion of the air-way, and a blower operating within the narrow rear neck portion of the air-way and directing air to the nails of fingers and thumb when accommodated within the passages and rearwardly inclined outlets communicating with said flared portion and terminating directly over said fingers and thumb.

---

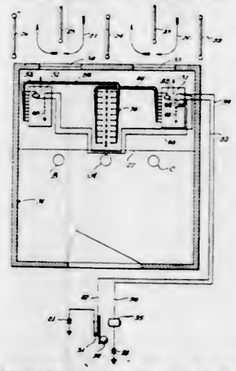
**2,389,823**

## PARIMUTUEL SYSTEM

**Clyde Smith, Hopkinsville, Ky.**

**Application June 6, 1940, Serial No. 339,113**

**9 Claims. (Cl. 235—92)**



1. In a totalizer for tokens, a register, first means to group said tokens into groups having uniform value, second means to enter said group values into said register group by group, third means to enter values of others of said tokens into said register token by token, and further means for rendering said entering means operative alternatively.

---



**2,389,824**

## END CAP MOUNTING FOR CYLINDERS

**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**

**Application November 27, 1942, Serial No. 467,116**

**2 Claims. (Cl. 220—46)**



1. Means for clamping a head upon an hydraulic actuating cylinder and for sealing the head and cylinder independent of the degree of pressure exerted by the clamping means, comprising cooperating flanges on the head and cylinder provided with abutting mating faces, clamping members channeled to encompass the flanges and clampingly lock the flanges and their respective head and cylinder in assembled relation, a reduced part on the head forming a cylindrical surface adapted to project into and slidably contact the inner wall of the cylinder, and sealing means including a substantially V-shaped peripheral groove in the cylindrical surface and a substantially wedge-shaped resilient sealing element pivotally mounted in the groove and having a rounded contacting face extending beyond the groove for engagement with the interior of the cylinder, the cross-section of the sealing element being less than the width of the groove whereby its sides are normally spaced from the sides of the groove to permit the sealing element to pivot during operation and assembly of the head upon the cylinder.

---

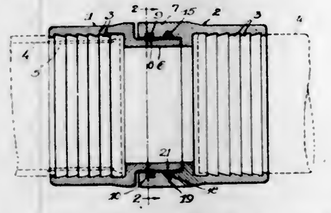
**2,389,825**

## FIRE HOSE COUPLING

**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**

**Application January 11, 1943, Serial No. 471,959**

**2 Claims. (Cl. 285—97.3)**



1. In a fire hose coupling, a pair of aligned coupling members of substantially the same outer diameter and provided with complementary telescoping parts, radially opening channels formed in the telescoping parts adapted to be moved into alignment when the parts are assembled, an opening and an elongated slot provided in spaced relation in the outer of the telescoping parts, means for connecting the members together and including a resilient, contractile snap ring carried by the outer part and adapted to interlock with the inner part, said ring having its free ends projecting radially outwardly with one of its ends projecting into and anchored within the opening and its other end projecting into the elongated slot, the end within the elongated slot being adapted to be engaged by a tool or other instrument to expand the ring and release the inner part therefrom for disassembly.

---

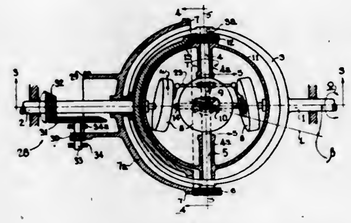
**2,389,826**

## TORQUE CONVERTER

**Edward A. Stalker, Bay City, Mich.**

**Substituted for abandoned application Serial No. 376,489, January 29, 1941. This application November 17, 1943, Serial No. 510,583**

**20 Claims. (Cl. 74—5)**



1. In a mechanism in combination a driving element rotatable about a torque input axis, a driven member, a mass, means including said driving element and said driven member for mounting said mass for simultaneous rotations about three mutually transverse axes namely said torque input axis, a spin axis and a precessional axis and for imparting a unidirectional spin to said mass about the spin axis; said first named means including a supporting means for said mass adapting it for both a controlled oscillation relative to the precessional axis and a rotation thereabout, cam means to oscillate said mass relative to the precessional axis in coordination with the rotation of the mass about the torque input axis to produce a unidirectional torque, said driven member being adapted to receive said torque.

---

**2,389,827**

## RECORDING APPARATUS

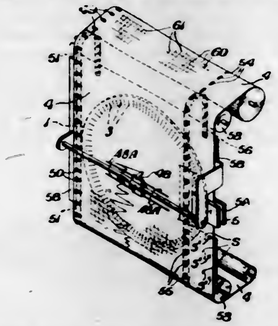
**Irving M. Stein, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application March 2, 1942, Serial No. 432,923**

**2 Claims. (Cl. 234—70)**

1. Apparatus for recording on a record sheet instantaneous magnitudes of a condition comprising an element movable to positions corresponding with instantaneous magnitudes of said condition, a stylus in contact with said record sheet to produce a continuous graph of instantaneous magnitudes corresponding to the positions assumed by said element, printing means intermittently operable into contact with said record sheet to record an instantaneous value corresponding to the graph value then being recorded by said stylus, means permanently connecting said element, said stylus, and said printing means to drive them in either direction in accordance with the movements of said element,

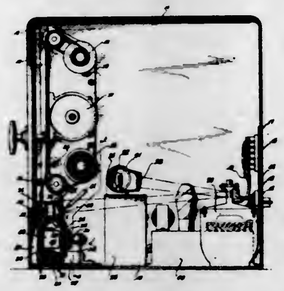
to produce on said record sheet said continuous graph, and to produce a movement of said print-



ing means, and means for intermittently operating said printing means to effect printing.

---

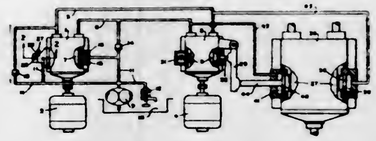
**2,389,828**
**RECORDER**
**Lawrence M. Swift, Tulsa, Okla., assignor to Engineering Laboratories, Incorporated, Tulsa, Okla., a corporation of Oklahoma**
**Application February 24, 1942, Serial No. 432,143**
**1 Claim. (Cl. 234—1.5)**



Apparatus for recording simultaneously on a single record sheet a plurality of measurements comprising a source of light in fixed position, a plurality of fixedly positioned galvanometers each of which is responsive to an independent source of energy and each of which includes a mirror which is rotatable in response to electrical signals, the angular displacement of the mirrors being proportional to the intensity of the source of energy, each of said mirrors receiving light from said source of light and reflecting a beam in a direction dependent upon the instantaneous position of the mirror, the reflected beams from all the mirrors of said galvanometer being in substantially the same plane, and the field of the projected beam from each mirror being displaced from the field of the projected beam from the other mirrors so that the beams do not overlap, a carriage, a photoelectric means carried by said carriage, means for moving the carriage continuously back and forth at a uniform rate so that the photoelectric means is moved back and forth along the line of said beams of light and continuously and repeatedly scans the beams and produces electrical current upon the interception of a beam, the record sheet being moved at right angles to the direction of movement of the carriage, a marking means carried by said carriage in a position to make a mark on the record sheet when the marking means is energized, said marking means being energized in response to the generation of said electrical currents by said photoelectric means, and thereby producing marks on the record sheet that are representative of the angular position of each of the mirrors at the instant at which the photoelectric means intercepts a beam.

---

**2,389,829**
**REMOTE CONTROL**
**Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application September 15, 1944, Serial No. 554,308**
**15 Claims. (Cl. 60—97)**



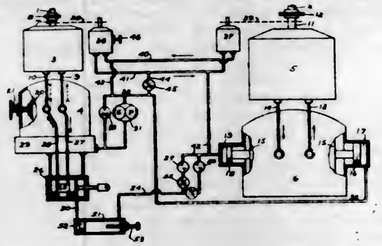
1. In a control for a hydraulic actuator, the combination of a transmitter pump, a receiver pump, fluid channels connecting said pumps in a substantially closed circuit, means for varying the displacement of said transmitter pump to vary the rate at which it delivers liquid to said receiver pump, means for adjusting the displacement of said receiver pump, means responsive to a variation in the delivery of one pump relative to the delivery of the other pump for effecting operation of said actuator, and means responsive to operation of said actuator for operating said adjusting means to cause said receiver pump to deliver liquid at the same rate as said transmitter pump and thereby stop further operation of said actuator.

5. In a control for a hydraulic actuator having piston means fitted in cylinder means and pressure chambers at opposite ends of said piston means, the combination of a transmitter pump and a receiver pump having identical displacements, means for driving said pumps at the same speed, fluid channels connecting said pumps in a substantially closed circuit, fluid channels connecting said pressure chambers to opposite sides of said circuit respectively, means for adjusting the displacement of said receiver pump, and means responsive to movement of said piston means for operating said adjusting means.

---

**2,389,830**
**HYDRAULIC DRIVE**
**Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application August 15, 1942, Serial No. 454,962**
**13 Claims. (Cl. 60—53)**

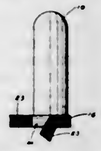
2. In a hydraulic drive having a first hydraulic motor, a first pump connected to said motor to energize the same, a second hydraulic motor, a second pump connected to said second motor to energize the same and provided with a hydraulically operated control for varying its displacement, the combination of means for controlling the flow of liquid from said first pump to said first motor, and means for causing a predetermined quantity of liquid to flow to said pump control and thereby effect a definite adjustment



of the displacement of said second pump in response to operation of said flow control means.

---

**2,389,831**
**PROPHYLACTIC SHEATH OR ENVELOPE**
**Samuel J. Welsh, New York, N. Y.**
**Application May 11, 1944, Serial No. 535,059**
**2 Claims. (Cl. 2—21)**



1. A prophylactic sheath or envelope closed at one end and open at the other end, a band of a pressure, water proof adhesive coated on the inside of the sheath or envelope around the edge of the open end and extending on the inside of the sheath or envelope away from the said edge and a strip of coarsely woven elastic gauze covering the band of adhesive, an end of said gauze being free, said sheath or envelope normally in the form of a rolled article with the band in position to be disposed on the inside of the sheath or envelope upon unrolling it and the gauze, prior to completely unrolling the sheath or envelope, on the outside of the remaining unrolled portion thereof.

---

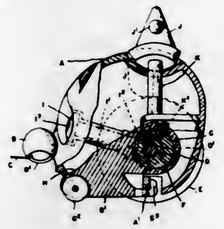
**2,389,832**
**STORAGE BATTERY**
**Francis J. Williams, Port Washington, N. Y., and Joseph A. Orsino, Westfield, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application March 19, 1942, Serial No. 435,298**
**9 Claims. (Cl. 136—6)**

1. A storage battery of the lead-acid type having incorporated in one of its elements a nickel-containing glass in contact with and soluble in the battery electrolyte.

---

**2,389,833**
**TOY**
**Frank J. Woditsch, St. Clair Shores, Mich., assignor of one-half to Raymond C. Patzer, Detroit, Mich.**
**Application June 4, 1945, Serial No. 597,535**
**8 Claims. (Cl. 46—104)**

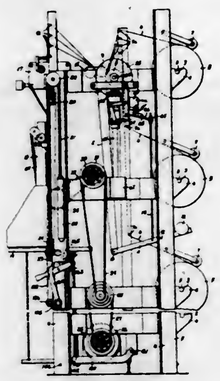
1. A toy comprising a member fashioned to represent a portion of a man's head with a forwardly projecting nose portion forming a means for attachment of a draw string, an axle on which said head portion is pivotally mounted, ground wheels fixed upon said axle and arranged on opposite sides of said head portion to represent ears, a lower jaw member mounted on said



axle beneath said head portion, and means actuated by the rotation of said axle for oscillating said head portion thereon in relation to said jaw member to produce the effect of alternately opening and closing the mouth as the head is advanced.

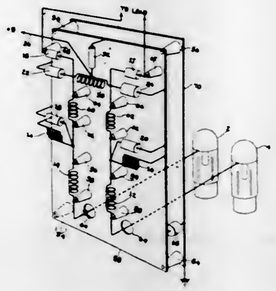
---

**2,389,834**
**WEB-FEEDING ARRANGEMENT**
**Clayton E. Wyrick, Miami, Fla., assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio**
**Original application April 27, 1939, Serial No. 270,396. Divided and this application July 20, 1942, Serial No. 451,647**
**5 Claims. (Cl. 270—39)**



1. In a machine for aligning and folding superimposed continuous webs of paper in the form of a fan-folded pack, means comprising friction disc operated rolls for advancing said webs through said machine, means electrically controlled for varying the speed at which said webs are advanced through the machine, a prime mover for driving said machine, means comprising a clutch for disconnecting said prime mover, and means associated therewith for electrically breaking the circuit to said variable speed electrically controlled mechanism when the prime mover is declutched.

2,389,835
**RADIO TRANSMITTER**
John E. Young, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 9, 1944, Serial No. 521,633
13 Claims. (Cl. 179—171)



1. High power high frequency apparatus including a vacuum tube stage and a utilization circuit, a network in the output of said stage, said network having a plurality of condensers thereacross, a direct connection between one terminal of one of said condensers and a terminal of another of said condensers, said direct connection comprising a mounting panel for supporting said network, a source of anode polarizing potential and means for supplying said potential to said stage through said network, a direct current connection from said source to said panel, said panel being effectively by-passed to a point of zero radio frequency potential for energy of the operating frequency.

2,389,836
**MOLDED INLAID LINOLEUM MANUFACTURE**
John L. Berger, Columbia, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 1, 1944, Serial No. 543,071
11 Claims. (Cl. 154—26)



1. In the manufacture of molded inlaid linoleum, the steps of applying inlaying color composition through a stencil opening to form an inlaid area, irregularly breaking down said inlay along an edge portion thereof, and thereafter applying another inlaying color composition through a second stencil opening into contiguous relationship with the first applied inlay along said edge portion to form a blended juncture zone between said inlays.

2,389,837
**ALKYD RESIN COATING COMPOSITIONS**
Charles Bogin, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application June 20, 1941, Serial No. 398,949
1 Claim. (Cl. 260—23)

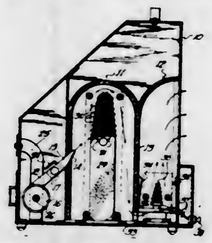
A coating composition comprising a tough and strong resin, formed by the reaction of phthalic anhydride, glycerol and drying oil fatty acids, dissolved in a normally liquid hydrocarbon solvent with from 10 to 20 per cent of a 1 to 5 carbon atom mono-nitroparaffin present to reduce the viscosity of the composition and to prevent unfavorable precipitation of the resin during evaporation of the solvent mixture.

2,389,838
**METHOD OF SCALING STAINLESS STEEL**
Alfred W. Bromberg, Gary, Ind.
Application May 1, 1942, Serial No. 441,369
2 Claims. (Cl. 148—16)



1. The steps in the method of producing stainless steel strip which consist in coating the hot rolled strip prior to annealing with an aqueous solution containing sodium chloride and sodium fluoride in varying amounts up to the eutectic mixture thereof, and then annealing the coated strip in a reducing atmosphere, whereby to promote increased scale formation of a character readily removable by acid pickling and in an amount sufficient to effect substantial removal of surface defects from the strip.

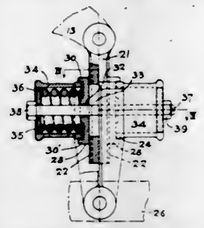
2,389,839
**HEATING UNIT**
Thomas E. Brown, Shreveport, La.
Application January 25, 1944, Serial No. 519,609
6 Claims. (Cl. 219—39)



1. In a machine for heating air, a cabinet having a rearmost and a foremost compartment, an elongated ceramic body of inverted U-shape in transverse section, defining a heat collecting chamber and an integral heat collecting hood originating at the top of one wall of said chamber and curved outwardly into said foremost compartment, an elongated opening at the base of the partitioning wall below said hood to bring the latter into communication with said cabinet, a major electrical radiant in said chamber, a plurality of independently controlled electrical radiants in said hood, means for forcing circulation of air through said chamber and hood whereby the same will be constrained by the walls of said chamber and hood to travel in close proximity to said radiants.

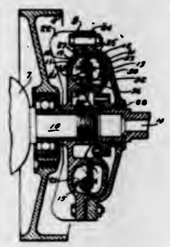


2,389,840
**SNUBBER**
Alfred W. Bruce, New York, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application June 1, 1944, Serial No. 538,255
4 Claims. (Cl. 188—129)



1. A snubber comprising a bar having opposite longitudinally corrugated friction faces; shoes having corrugated friction faces coacting one with each of said bar faces; a casing surrounding said shoes and bar and having an opening adjacent the outer face of each shoe; a spring housing secured to said casing and surrounding each of said openings; a coil spring disposed in each of said housings, each bearing at its inner end against the adjacent shoe; washers engaging the outer ends of said springs, said shoes and washers being orificed and said bar being slotted; and an adjusting bolt passing through said orifices and slot and engaging the outer faces of said washers whereby said springs can be placed under predetermined compression, each of said shoes having portions extending beyond the adjacent portions of said casing and overlapping same for movement of said shoes with said casing, said casing and bar being adapted for relative movement longitudinally of said corrugations.

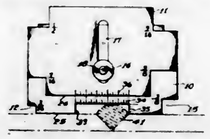
2,389,841
**FLUID COUPLING**
David J. Conant, Cleveland Heights, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application October 10, 1942, Serial No. 461,561
11 Claims. (Cl. 60—54)



1. In a fluid coupling, a runner having fluid passageways, a ring forming one side of said passageways, and openings in said ring forming sharp edge orifices in said passageways.

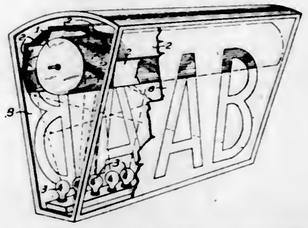
4. In a fluid coupling, in combination with an impeller having passageways whose cross sectional areas vary so that the products of the fluid pressures and the radii of rotation are constant throughout the lengths of said passageways, a runner having fluid passageways whose cross sectional areas are substantially constant, and sharp edge orifices in said runner passageways, the areas of said orifice openings being less than the cross sectional areas of said passageways.

2,389,842
**GAUGE FOR USE IN WELDING**
William H. Cummins, Portland, Oreg.
Application April 26, 1943, Serial No. 484,523
2 Claims. (Cl. 33—169)



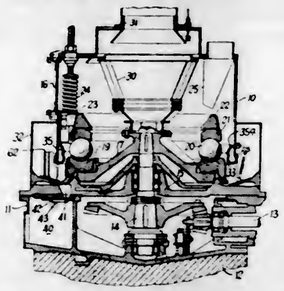
1. In a welding gauge of the character described, a pair of superimposed plates of the same length and width, a rectangularly-shaped cut-out section in the edge of one plate for use on a bead weld, means permitting the adjustment of the relative position of said plates and means for clamping said plates together in a desired relative position, whereby the effective depth of said cut-out section as a bead weld gauge can be modified by adjusting the relative position of said plates so that the corresponding edge of the other plate will block off the upper part of said cut-out section.

2,389,843
**APPARATUS FOR THE MULTIPLICATION OF IMAGES OF A BODY**
Max Camis de Fonseca, Cascais, Portugal
Application October 15, 1940, Serial No. 361,245
In Portugal October 19, 1939
2 Claims. (Cl. 40—132)



1. An apparatus for the multiplication of images, comprising a closed box having therein a front viewing screen bearing translucent indicia, a rotatable body, having a reflectible surface and positioned within said box and located between the screen and the rear wall of said box, means for rotating said body, a source of light placed near the bottom of said screen adapted to cast a light beam upon said body, a plurality of plane reflecting mirrors located toward the rear wall of said box and positioned in predetermined arrangement about and facing said body, each of said individual mirrors forming a different angle with the fixed plane of the screen, each mirror in itself reflecting an image of the rotatable body through said translucent indicia in said viewing screen, the axis of rotation of said body and the axes of the mirrors which correspond to said axis of rotation being arranged parallel to each other and parallel to the plane of said screen.

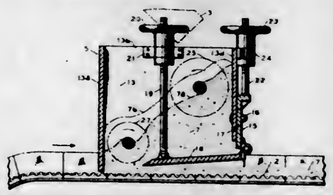
**2,389,844**
**PULVERIZER**
**George B. Ebersole, Akron, Ohio, assignor to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey**
**Application September 19, 1942, Serial No. 458,935**
**13 Claims. (Cl. 241—47)**



1. A pulverizer comprising a casing having an outlet for material-laden air at its upper end and enclosing a horizontally arranged rotary grinding ring, rolling grinding elements on said grinding ring, means for effecting relative movement of said grinding elements and ring, means for delivering material to be pulverized to the inner side of said grinding elements, means for directing a stream of air upwardly past the outer side of said grinding ring to sweep up pulverized material discharging therefrom including an air supply chamber opening to said casing at the outer side of said grinding ring and below the level of said grinding elements, a discharge opening for unpulverized material at the outer side of said grinding ring and adjacent said air entrance opening, and an outwardly projecting annular lip member at the outer side of and rotating with said grinding ring, said lip member having an upper surface portion horizontally arranged and in position to receive unpulverized material discharged from said grinding ring and carry said unpulverized material towards said discharge opening.

---

**2,389,845**
**DISTRIBUTOR**
**Ewald Erickson, Watertown, Minn., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**Application February 18, 1943, Serial No. 476,293**
**8 Claims. (Cl. 222—310)**



1. A material distributor comprising a hopper superposed transversely to a continuous foraminous conveyor belt, a supporting member adjustably secured to the trailing side of said hopper, an adjustable screed member hingedly secured to said supporting member and extending toward the leading side of the hopper to form a bottom for a major portion of the hopper, said adjustable screed member adapted to screed material as carried by the conveyor belt from the hopper, a rod member having its lower end hingedly secured to the adjustable screed member near the leading edge thereof and extending upwardly therefrom, said rod member adapted to provide support to the leading edge of the screed member, means for adjustably securing the upper end of the rod member to adjust the leading edge of the screed member relative to the conveyor belt, separate means for adjusting relative to the conveyor belt the supporting member and the edge of the screed member which is secured to the supporting member, means for maintaining an equal distribution of material as charged to the hopper, and means for maintaining an equal distribution of material as discharged from the hopper.

---

**2,389,846**
**HIGH VELOCITY PROJECTILE**
**George R. Ericson, St. Louis, Mo.**
**Application August 26, 1941, Serial No. 408,383**
**2 Claims. (Cl. 102—93)**

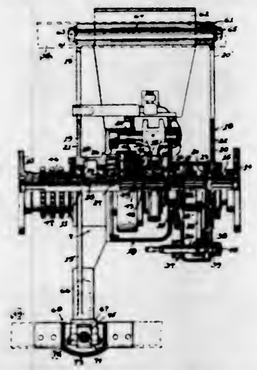


1. In combination, a projectile for use in a gun, said projectile including a shoulder, a sabot having portions engaging the barrel of said gun and said projectile including spaced annular flanges, at least one of which is in sealing engagement with said projectile rearward of said shoulder, the flange having sealing engagement with said projectile including an area capable of distortion under discharge pressure in said gun to weaken said sealing engagement, whereby said sabot and projectile may separate after discharge.

---

**2,389,847**
**POWER TAKE-OFF**
**Chris Gerst, Dearborn, Mich.**
**Application May 29, 1944, Serial No. 537,873**
**5 Claims. (Cl. 180—53)**

1. In a self-propelled vehicle a frame, an engine, a rear axle, a split drive shaft having a drive section universally coupled with said engine and a driven section universally coupled with said rear axle, a driven unit mounted on said vehicle, a power take-off device, and a chain drive coupling said device with said unit, said power take-off device being supported by said frame between the sections of said split drive shaft and including a housing substantially vertically adjustably secured to said frame, aligned shaft sections journaled in said housing and coupled with said drive shaft sections, means selectively coupling said aligned shaft sections with each other, a tubular power take-off shaft rotatably mounted on one of said aligned shaft sections, and means on said one shaft section and said power take-off shaft selectively frictionally coupling said power take-off shaft with said one shaft section, said housing being vertically shiftably secured to said frame

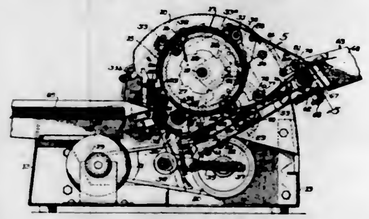


and said power take-off shaft and shaft sections being aligned with each other to permit adjustment of the chain of said chain drive without substantial change in the alignment and weight distribution of said power take-off device with respect to the axis of said frame.

---



**2,389,848**
**PAPER HANDLING MECHANISM FOR DUPLICATING MACHINES**
**James L. Gibson, Chicago, and Eric W. Peterson, Glen Ellyn, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia**
**Application December 18, 1941, Serial No. 423,480**
**2 Claims. (Cl. 101—132)**

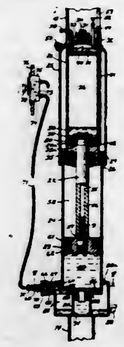


1. In a paper handling mechanism for a duplicating machine having a drum at the lower portion of which copy sheets are released as the drum rotates, the combination of an endless belt conveyor in position for receiving sheets thereon from the drum, means for moving said conveyor at substantially the same surface speed as that of the drum for carrying said sheets forwardly and upwardly, a tray pivotally mounted on a transversely positioned axis at the front end portion of said conveyor in position to receive sheets from the conveyor, and means for holding said tray in a plurality of different angular positions comprising a polygonal member pivotally mounted in position for spacing a portion of the tray at differential distances from a portion of the framework and arranged so as normally to be held in adjusted position by the pressure of the tray thereon.

2. In a paper handling mechanism for a duplicating machine having a drum at the lower portion of which copy sheets are released as the drum rotates, the combination of an endless belt conveyor in position for receiving sheets thereon from the drum, means for moving said conveyor at substantially the same surface speed as that of the drum for carrying said sheets forwardly and upwardly, a receptacle at the front end portion of said conveyor in position to receive sheets therein from the conveyor, rollers rotatably mounted on the axis about which the forward end portion of the conveyor is supported and driven by the conveyor at a substantially higher surface speed than that of the conveyor adapted by engagement with sheets forwarded by the conveyor to exert a forward pull on the sheets, and other rollers having much more effective frictional engagement with said conveyor and said sheets than that of said first-named rollers adapted by pressure on the sheets at an intermediate portion of the conveyor to hold said sheets back against the pull of said first-named rollers until the rear edges of the sheets have passed into substantial spaced relation with respect to the drum.

---

**2,389,849**
**AIRPLANE SHOCK ABSORBING DEVICE**
**Lucien R. Gruss, Cleveland, Ohio**
**Application January 3, 1941, Serial No. 372,970**
**9 Claims. (Cl. 267—64)**



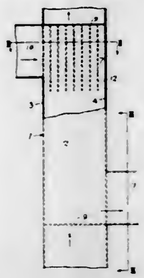
1. A device for cushioning the landing of an airplane and embodying spaced fluid pressure devices each of which includes a cylinder and a piston, the pistons being connected by a single piston rod, an air chamber above one of the pistons and a second air chamber below said piston, and a storage chamber in communication with said second air chamber, and means for varying the air capacity of the storage chamber, said last-named means including a member that is settable from a point exteriorly of the storage chamber.

---

**2,389,850**
**HEAT EXCHANGER**
**Addison Y. Gunter, Larchmont, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application June 3, 1943, Serial No. 489,452**
**2 Claims. (Cl. 257—245)**

1. A heat exchanger for heating a supply of air for a furnace firebox comprising a rectangular shell; thin heat transfer plates separating said

shell into a plurality of separate passages, one of said passages being a flue gas passage open at the bottom for communication with the flue of the furnace for the passage of flue gas therefrom through said flue gas passage, and open at the top for exit of said flue gas, and other of said passages being air passages adjacent and on opposite sides of said flue gas passage and separated therefrom by said thin plates for heat transfer from said gas to said air, each of said air passages having an air inlet at its upper end, and an air outlet at its lower end for communication with said firebox, said thin plates being bare on their air passage faces; and trans-



versely spaced longitudinally extending fin-like members disposed on the flue gas passage faces of said plates whereby said plates are provided with a greater heat transfer surface in said flue gas passage than in said air passages, said fin-like members being disposed only at that portion of said plates adjacent said air inlets and projecting into said flue gas passage from the faces of said plate portions therein providing thereby a greater heat transfer surface on the flue gas side of said plate portions than on the opposite side of said plate portions in said air passages, thereby tending to prevent harmful flue gas condensation.

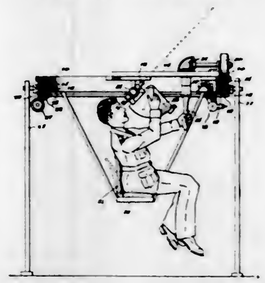
---

**2,389,851**
**MISSILE DISPENSING DEVICE**
**Frederick H. Hagner, San Antonio, Tex., assignor to Archbold-Hagner Instrument Laboratory, Inc., a corporation of Delaware**
**Application June 9, 1942, Serial No. 446,389**
**6 Claims. (Cl. 206—56)**



1. A missile-dropping device comprising a casing, a ratchet disc rotatably mounted upon said casing, said disc provided with a missile-receiving reservoir, the casing having a missile-discharge opening formed therein, said ratchet disc having a socket formed in the under face thereof, ratchet teeth formed in the periphery of said socket, oppositely opposed shuttles movable toward and away from said discharge opening, the shuttles having missile-supporting portions at their inner ends, said ratchet teeth being adapted to engage said shuttles to move said shuttles in one direction, means for moving the shuttles in a reverse direction whereby a missile will be alternately supported and released between said shuttles, and means for periodically feeding missiles to a supporting position between the shuttles.

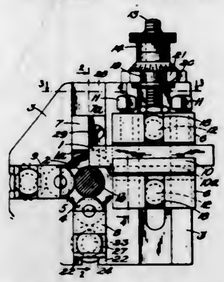
**2,389,852**
**AZIMUTH AND ALTITUDE MEASURING DEVICE**
**Frederick H. Hagner, San Antonio, Tex.**
**Application April 19, 1943, Serial No. 483,648**
**7 Claims. (Cl. 33—69)**



3. A device of the class described comprising a frame having a circular track, gimbals supporting said frame, a band mounted for rotating movement on and around said track on a normally vertical axis, means for locking said band in a rotated position, a ring, bearings supporting said ring upon the inner face of said band for free rotation thereabout, a seat suspended below and supported by said ring, the seat being arranged in line with the vertical axis through the approximate center of gravity of the ring, the seat, frame, band and ring being pendulously hung within said gimbals, a sextant mounted on a horizontal pivot and located in line with the vertical axis of the center of gravity of the seat and within easy reach of an operator in a manner whereby an operator may sit upon the seat and may view a celestial body through said sextant, a graduated scale carried by said ring, a graduated scale carried by said band, and a marking device mounted adjacent said graduated scales upon the ring and band for marking a position upon the scale of the band to indicate the position of the scale on the ring relative to the scale on the band.

---

**2,389,853**
**ROLLER BOX FOR LATHES**
**Claud S. Harris, Cirencester, England**
**Application May 13, 1944, Serial No. 535,470**
**In Great Britain April 16, 1943**
**7 Claims. (Cl. 82—35)**



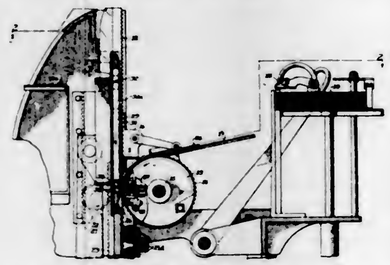
1. A roller box for lathes, comprising a head adapted to move axially relative to the workpiece, a slide mounted on said head so as to be adjustable in a true straight line transversely of the axis of said workpiece, clamping means for clamping a



cutting tool in said slide at a fixed accurately determined orientation, with said cutting tool transverse to the workpiece and transverse to the line of adjustment of said slide, said cutting tool being adjustable, relative to said slide, in a direction longitudinally of itself by unclamping and reclamping said clamping means, a setting block mounted on said head, said setting block having a setting face accurately ground in a plane which is parallel to the line of adjustment of said slide, and such that, when said cutting tool is adjusted longitudinally of itself relative to said slide, so as to abut against said setting face, said cutting tool will always be at the correct longitudinal adjustment, two further slides mounted on said head so as each to be adjustable nearer to, and further from, the axis of the workpiece, and two rollers rotatably mounted on said slides respectively with their axes parallel to the axis of the workpiece, whereby said rollers may be adjusted to engage the periphery of the cut workpiece to support it against the thrust exerted by the cutting tool.

---

**2,389,854**
**SHEET HANDLING METHOD**
**Arthur L. Hess, Cincinnati, Ohio, assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia**
**Application September 25, 1942, Serial No. 459,725**
**2 Claims. (Cl. 270—1)**



1. A method of printing upon a sheet and crimping a carbon thereto in the same operation, comprising gripping the sheets with the carbon sheet underneath upon an impression cylinder, pressing the sheet and cylinder into contact with a printing bed and chase, and crimping the sheets together between crimping devices on the cylinder and bed as the bed traverses the cylinder to print on the outer sheet.

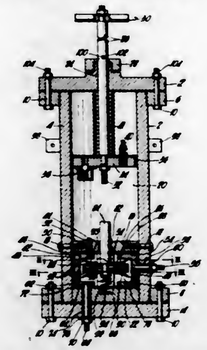
---

**2,389,855**
**RUBBER LUBRICANT**
**Harold G. Johnson, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland**
**No Drawing. Application March 25, 1944, Serial No. 528,157**
**6 Claims. (Cl. 252—49.5)**

1. A rubber lubricant composition capable of remaining in an emulsified state when allowed to stand undisturbed for extended periods of time, which consists of an aqueous emulsion containing as active lubricating ingredients from 1.5 to 5.0 per cent of a fatty acid having from twelve to eighteen carbon atoms, an amino hydroxy compound selected from the class consisting of isobutanolamine, triethanolamine, tris(hydroxymethyl) aminomethane, 2-amino-2-methyl-1-propanol, and 2-amino-2-methyl-1,3-propanediol, said amino hydroxy compound being present in an amount corresponding to from about 30 to 100 per cent in excess of that required to neutralize said fatty acid, from between about 1.0 to about 2.0 per cent bentonite, and colloidal graphite in an amount ranging from about 0.03 to 1.0 per cent.

---

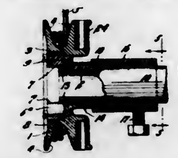
**2,389,856**
**TIME DELAY-RELAY SWITCH**
**William Jones, Ely, Minn., assignor to Oliver Iron Mining Company, a corporation of Minnesota**
**Application August 20, 1943, Serial No. 499,415**
**6 Claims. (Cl. 200—34)**



1. A time delay switch comprising a body, a partition in said body dividing it into a fluid cylinder and a switch compartment, a pair of input terminals connected to said body within said compartment, a pair of output terminals connected to said body within said compartment, a longitudinally movable member mounted in said compartment having one end thereof extending through said partition, a plurality of electrical contacts mounted on said movable member, one of said contacts normally connecting the terminals of one of said pairs of terminals, a piston rod extending through the end of said body into said cylinder, a piston connected to said piston rod, resilient means tending to force said piston toward said partition, means for permitting flow of fluid through said piston, means for holding said resilient means in compression, and means for releasing said holding means whereby the resilient means forces the piston toward said partition to move said movable member to disconnect the connected pair of terminals and to connect the input terminals to the output terminals.

---

**2,389,857**
**THREAD-CUTTING APPARATUS**
**Harry Kayfetz, Newark, N. J.**
**Application June 3, 1944, Serial No. 538,579**
**4 Claims. (Cl. 10—89)**

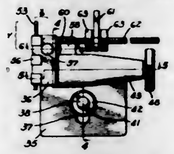


4. Thread-cutting apparatus comprising a pulley including a rim and a web within said rim

having an opening coaxial with said rim, a die block, means securing said die block to said web coaxially with said opening, said rim being exposed for engagement with a flexible power transmitting element, and means for mounting said die block and said pulley on a pipe to be threaded for rotation relatively to said pipe.

---

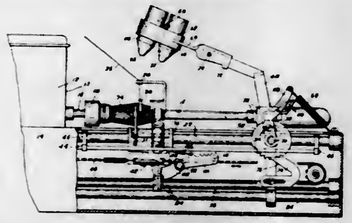
**2,389,858**
**TOOLHOLDER ASSEMBLY**
**Anthony Kyle and John A. Johnson, Los Angeles, Calif.**
**Application March 15, 1943, Serial No. 479,208**
**4 Claims. (Cl. 82—36)**



1. A tool holder for holding a cutting tool so that it can be used in a lathe or other machine tool in which a work piece is rotated about a work axis and is acted on by the cutting tool, the cutting tool being connected to and carried by a compound slide which may be moved by conventional mechanism in a slide plane which is parallel to said work axis, which comprises: a base having a pivot socket formed therein; means for securing said base rigidly to the compound slide of the machine tool; a cutting tool holder having a pivot spindle formed thereon, said pivot spindle being symmetrical about a spindle axis, said pivot spindle being secured in said pivot socket so that said spindle can turn about said spindle axis but is otherwise restrained from movement with relation to the base; adjustable means carried by said tool holder and contacting said base to establish a working position of said spindle in said socket with relation to said base about said spindle axis, which adjustment is not changed when the tool holder is removed from the base; and a cutting tool carried in said tool holder.

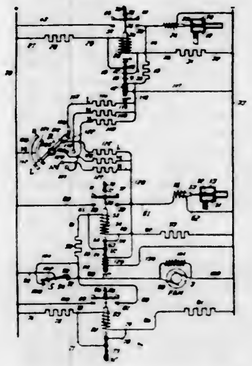
---

**2,389,859**
**BOBBIN MARKING MECHANISM**
**Harry Lambert, Methuen, Mass., assignor to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts**
**Application January 13, 1945, Serial No. 572,690**
**10 Claims. (Cl. 242—1)**



1. Bobbin marking mechanism comprising means for supporting and rotating a bobbin, yarn guiding means movable in directions longitudinally of the bobbin for distributing yarn thereon, and means responsive to movement of said yarn guiding means for applying a mark to the rotating bobbin.

**2,389,860**
**TEMPERATURE CONTROL BY OVERHEAD VENTILATION**
**Timothy J. Lehane and Everett H. Burgess, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York**
**Application January 19, 1942, Serial No. 427,257**
**2 Claims. (Cl. 236—91)**



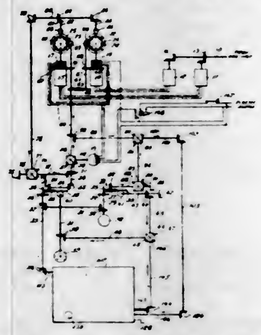
1. In a heating and ventilating system, means for circulating an air stream through an enclosure comprising an over-head duct, a blower for forcing an air-stream into and through the duct, said stream consisting of a larger portion withdrawn from the enclosure and a smaller portion of fresh outside air, means in the duct for adding heat to the air stream, a thermostat positioned in the enclosure at a height substantially midway between the top and bottom thereof and in the path of the air flow outside the duct, said thermostat controlling the heating means in the duct so as to maintain a predetermined temperature in the enclosure at the location of the thermostat, radiating means for adding heat to the air in the enclosure adjacent the floor-level, means including a thermostat adjacent the floor-level for admitting heating medium to the radiating means when the temperature adjacent this lower thermostat falls below a predetermined minimum, and thermostatic means located outside the enclosure and rendering the floor-heat means inoperative while the outside temperature is above a predetermined minimum.

---

**2,389,861**
**RATE DETERMINING MECHANISM**
**James K. Macomber, Rockville Centre, N. Y., assignor to Arma Engineering Co., Inc., Brooklyn, N. Y., a corporation of New York**
**Application December 22, 1938, Serial No. 247,245**
**12 Claims. (Cl. 235—61.5)**

12. In rate determining mechanism the combination of input means actuated in accordance with values of an observed quantity, adjustable means for generating a quantity at an arbitrarily selected rate, means jointly actuated by the input and generating means for indicating the difference between changes in the observed quantity and changes in the generated quantity in given time intervals, means jointly actuated by said last-named means and said generating means for adding said difference to the generated quantity, second adjustable means for generating a quantity at an arbitrarily selected rate, means jointly driven by said generating means and said second jointly actuated means for subtracting said last generated quantity from the sum of said first generated quantity and said difference to provide a second difference, a movable member, means for moving the member in accordance with values of a second quantity, plot-forming means on the member, means driven by said last-named jointly actuated means for positioning plot-forming

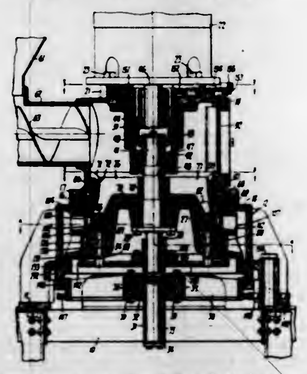




means laterally on the member in accordance with values of the said second difference to form a plot which is the function of the two quantities, means on the member manually adjustable in accordance with the slope of the plot, and driving connections between said adjustable means and said first generating means for changing the rate of its generated quantity by an amount proportional to the slope of said plot.

---

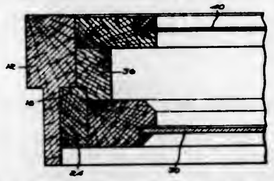
**2,389,862**
**EXTRACTOR**
**Leonard McGilhon, San Leandro, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada**
**Application July 7, 1941, Serial No. 401,320**
**11 Claims. (Cl. 146—76)**



1. In an extractor for juice-bearing materials, said extractor having a stator and a rotor mounted within the stator and defining therewith an annular space providing a path of flow for material, a plurality of annular comminuting zones along said path for liberating juice constituents of the material, each of said zones being defined by cooperating comminuting means on said stator and said rotor, a plurality of juice extracting means along said path, each juice extracting zone following said comminuting zone and comprising annular screening means on said stator and material impelling means on said rotor, said rotor being made up of at least two sections connected for rotation together and for relative axial adjustment.

---

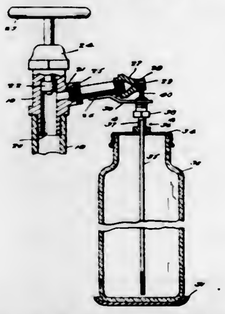
**2,389,863**
**BUILDING CONSTRUCTION UNIT**
**Robert W. McLaughlin, Jr., Bedford Village, N. Y., assignor to American Houses, Inc., New York, N. Y., a corporation of Delaware**
**Application April 25, 1944, Serial No. 532,581**
**2 Claims. (Cl. 160—90)**



1. A structural assembly of the character described comprising, in combination, a pair of spaced vertical, load-supporting stud elements and a pair of spaced horizontal frame elements cross-lapped with said studs to form a window-receiving opening, said stud and frame elements being so shaped as to provide a shoulder within said opening, means forming a sub-frame positioned against the shoulder within said opening, a window element comprising a frame mounted within said sub-frame and hinged to the upper horizontal section thereof to swing outwardly, and means positioned within said opening and in engagement with said stud elements, said first-mentioned frame elements and said sub-frame and providing a further shoulder against which said window abuts when closed.

---

**2,389,864**
**ATOMIZING SPRAYER FOR MEDICINAL AND CHEMICAL PREPARATIONS**
**Henry J. Miller, Sioux Falls, S. Dak., assignor of one-third to Violet Moore, Sioux Falls, S. Dak.**
**Application September 28, 1943, Serial No. 504,179**
**1 Claim. (Cl. 299—87)**



In a sprayer of the class described, a horizontal tube having one end adapted to be connected with a source of steam under pressure, a nozzle carried by the other end of said tube and terminating in a longitudinal jet surrounded by an outwardly

projecting tubular shield formed with a vertical aperture in its under side, an arm carried by said tube and extending longitudinally thereof under said nozzle and having its outer end formed with a screw-threaded opening, an adapter including an externally screw-threaded body disposed vertically under said nozzle and threaded upwardly through said screw-threaded opening of said arm, said adapter having a nozzle at its upper end passing upwardly through the opening in the under side of the shield at the terminal end of the first-named nozzle and terminating in adjusted spaced relation to the front end of the jet, a cap for a container formed with an opening, a nipple carried by said cap about the opening therein and having an unthreaded neck thrust upwardly into the lower end of said adapter, and a lift tube carried by the nipple of said cap and extending downwardly through the opening in the cap.

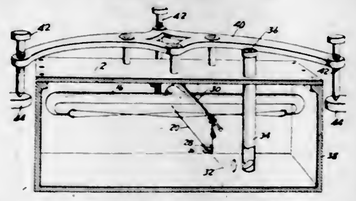
---

**2,389,865**
**ARTIFICIAL RESIN AND METHOD OF PREPARATION**
**Gordon F. Mills, Palo Alto, and Alexander V. Alm, Burlingame, Calif., assignors to Chemical Process Company, San Francisco, Calif., a corporation of Nevada**
**No Drawing. Application December 23, 1942, Serial No. 469,939**
**7 Claims. (Cl. 260—57)**

1. The method of making a porous ion exchange carrier resin resulting from the reaction by application of heat in a reaction vehicle containing water, of phenol and formaldehyde in the presence of an alkali metal hydroxide condensing agent and in proportions varying from substantially one (1.0) mole of phenol to between substantially one and one-quarter (1.25) and four (4.0) moles of formaldehyde, which comprises controlling the character of the gel which forms by such reaction by employing a quantity of such alkali metal hydroxide which is sufficient to preclude separation of the reactable substances from the vehicle before the reaction mixture gels but which is insufficient to cause the gel which is formed by the reaction to be translucent or transparent, and thereafter drying the resin.

---

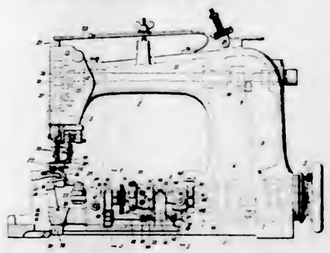
**2,389,866**
**APPARATUS FOR MAKING GRAVITY MEASUREMENTS**
**Morton E. Moore, Prospect Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**Application June 10, 1939, Serial No. 278,565**
**11 Claims. (Cl. 73—382)**



1. An instrument for measuring small variations in gravitational attraction comprising a member subjected to a torque due to a force exerted by gravity, and means for supporting said member for oscillatory movement about an axis spaced from the center of gravity of said member including devices for preventing horizontal movements of said member and for maintaining said member in equilibrium in opposition to said torque, said devices comprising means for exerting at one point on said member a force along a line substantially spaced from the center of oscillation of said member and having a horizontal component and a vertical downward component, and means exerting at another point on said member a second force along another line substantially spaced from the center of oscillation of said member and having a horizontal component balancing the horizontal component of the first force and having a vertical upward component balancing the vertical downward component of the first force and the force of gravity, said forces exerting compression upon the portion of the member between said points, and said lines of application of the forces varying in direction relative to said member during its oscillations.

---

**2,389,867**
**SEWING MACHINE LOOPER MECHANISM**
**Edward Muecke, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application August 1, 1944, Serial No. 547,547**
**13 Claims. (Cl. 112—200)**



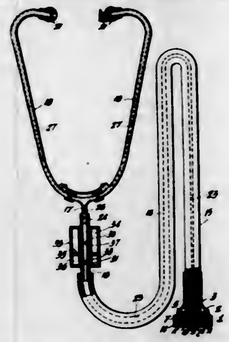
1. In a sewing machine looper mechanism, in combination, a rotary actuating-shaft, a looper-carrier, a looper mounted thereon, telescopically arranged looper-carrier supporting members, and operative connections between said actuating-shaft and said members for imparting endwise and sidewise movements to said looper.

---

**2,389,868**
**ACOUSTIC STETHOSCOPE**
**Harry F. Olson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application October 29, 1943, Serial No. 508,215**
**3 Claims. (Cl. 181—24)**

1. In an acoustic stethoscope, a pick-up device having a relatively high impedance equal substantially to that of a given area of a subject to be examined, an acoustic coupling line connected at one end to said pick-up device and adapted to be connected at its other end to a detector having a relatively low impedance, said line including a tubular member and having a tapered passage between its ends which expands gradually from said pick-up device to its detector end, the ends of said passage having impedances which match said high and low impedances, respectively, whereby said coupling line is adapted to transmit acoustical energy from said subject to said detector without substantial attenuation, said tubular member having a plurality of openings in the wall thereof which are spaced from each other and each of which affords communication between said passage and the exterior, and means associated with said line for rejecting acoustical energy of certain frequencies within the range transmitted by said line whereby to prevent energy of said certain frequencies from reaching said detector, said rejecting means comprising a plurality of acoustical resonators of the Helmholtz type equal in number to the number of said openings and each associated with a separate one of said openings whereby to afford communication between each of said resonators and said passage, said resonators each being effective over a different frequency range.





---

**2,389,869**
**LOCKING AND SETTING DEVICE**
**John T. Phipps, Whittier, Calif., assignor, by mesne assignments, to Vernon Tool Co. Ltd., Alhambra, Calif., a corporation of California**
**Application February 9, 1945, Serial No. 577,117**
**5 Claims. (Cl. 166—12)**



1. In lock and release mechanism for well devices of the type which embody two members one of which is longitudinally movable by control from the ground surface and the other of which is movable both longitudinally and transversely with relation to the one, the second mentioned member being provided with means for creating a frictional drag on the wall of the well tending to hold that member stationary, one of said members being provided with a cam slot and the other with a slot engaging pin; the improvement in slot formation which comprises the combination of two longitudinally extending and laterally spaced slot lanes joined together at one of their corresponding longitudinal ends, one of said lanes having a closed opposite end and that lane having a run approaching and entering the end junction in a diagonal direction longitudinally and laterally toward and into that end of the other lane, so that when the pin has passed through the first mentioned lane into the joined end of the second mentioned lane by relative movement in one longitudinal direction it will then pass through the second mentioned lane when the pin is moved longitudinally in the opposite direction with relation to the cam slot; the other end of the second mentioned lane extending longitudinally, in the direction away from the joined ends, beyond the corresponding closed end of the first mentioned lane, the second mentioned lane having near its second mentioned end a diagonal run leading longitudinally away from the joined ends and laterally toward the first mentioned lane; and a cross-connecting lane leading diagonally from an intermediate part of the second mentioned lane into an intermediate part of the first mentioned lane and longitudinally toward the joined ends of the lanes, said diagonal lane having a diagonal pin-deflecting wall which laterally overhangs the second mentioned end of the second mentioned lane so that when the pin moves longitudinally away from that end it will be engaged by said overhanging wall and deflected into the intermediate part of the first mentioned lane.



---

**2,389,870**
**CARRIER AND APPLICATOR FOR THE TREATMENT OF TREES**
**Frederick Richard Reevely, St. Lambert, Quebec, Canada**
**Application November 14, 1942, Serial No. 465,828**
**2 Claims. (Cl. 47—57.5)**



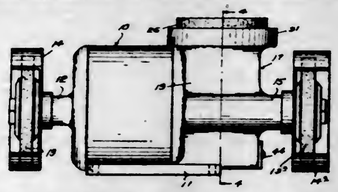
1. A carrier and applicator of organic and/or inorganic substances for the treatment of trees and the like comprising a roll formed of an outer strip of impermeable material having its longitudinal edges folded to form side flanges, a toxicant located approximately in the inner central portion of the roll throughout, an inner strip of permeable material secured to the impermeable material throughout the roll and completely covering the toxicant thereon, said roll adapted to be cut off into individual strips conforming to the diameter of the tree to be treated and applied thereto with the inner permeable strip in direct contact with the tree surface.

---

**2,389,871**
**COMBINATION GRINDER AND TOOL DRESSER**
**Charles S. Rose, Agency, Iowa**
**Application June 12, 1944, Serial No. 539,837**
**12 Claims. (Cl. 51—166)**

1. In a structure of the class described, an oil bathed whetstone unit comprising a casing having vertical vertically spaced bearings, a tubular shaft mounted for horizontal rotation in said bearings, a check valve on the lower end of said

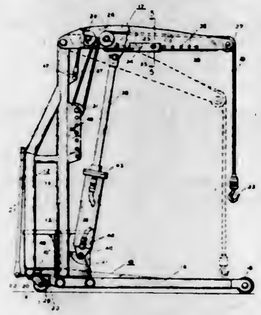
tubular shaft, a gear on said shaft for rotating the same, a motor including a shaft, an operating connection between the motor shaft and gear, a pump structure in the lower portion of said



casing for feeding oil to the interior of the shaft through the check valve, an oil reservoir for feeding oil to the pump structure, an operating connection between said shaft and pump structure, and a whetstone on the upper end of said shaft.

---

**2,389,872**
**HYDRAULIC FLOOR CRANE**
**Kenneth A. Ruger, Portland, Oreg., and Bailey Hilton, Tacoma, Wash.**
**Application September 18, 1944, Serial No. 554,714**
**5 Claims. (Cl. 212—8)**



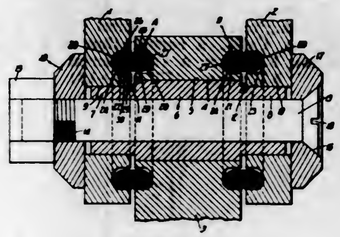
1. In a hydraulic crane of the character described, a base, a pedestal mounted on said base, a cantilever arm hinged to the top of said pedestal for up and down movement in a vertical plane, a hydraulic cylinder and piston, means for pivotally supporting said cylinder near the bottom of said pedestal, a piston rod extending upwardly from said cylinder, the upper end of said piston rod pivotally connected to said cantilever arm, a pulley mounted in the outer end of said arm, a pair of pulleys supported on said arm between the inner hinged end of said arm and the pivotal connection of said piston rod with said arm, a fourth pulley mounted on said pedestal, a hoist cable, means for attaching the inner end of said cable in fixed position on the crane, said cable extending from said attached end over the nearest pulley on said cantilever arm, around said fourth pulley and thence over the remaining two pulleys on said cantilever arm, the free end of said cable extending downwardly from the pulley on the outer end of said arm and terminating in a load engaging element, means, including a hydraulic pump, for actuating said hydraulic piston and rod, and a manual control for said piston actuating means, whereby said load engaging element will be caused to move up or down with, but more rapidly than, the end of said cantilever arm when said arm is moved by said piston rod.

**2,389,873**
**PREPARATION OF BASIC HEAVY-METAL SOAPS**
**Harold Schiller, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**No Drawing. Application May 15, 1944, Serial No. 535,760**
**2 Claims. (Cl. 260—429)**

1. The method of preparing a basic soap of a metal of which the hydroxide is water-insoluble, which comprises: preparing a suspension of the freshly precipitated hydroxide of said metal in an aqueous solution containing an alkali-metal soap of a soap-forming organic acid and an excess of a water insoluble alkali-metal hydroxide, said suspension containing not less than one molecule of said soap to one molecule of said insoluble hydroxide; adding to said suspension, with agitation, a highly diluted, strong acid in quantity sufficient to neutralize said excess alkali and to liberate only one molecule of said organic acid from said soap; separating from said suspension a water-insoluble phase containing unreacted insoluble hydroxide together with said liberated organic acid; substantially freeing said separated phase from water-soluble substances, and dehydrating said separated phase.

---

**2,389,874**
**SEALING DEVICE FOR PIVOTAL JOINTS**
**Ames Searles, Moscow, Pa., and Charles A. Swarts, Yonkers, N. Y.**
**Application October 22, 1941, Serial No. 416,028**
**16 Claims. (Cl. 74—251)**



1. In a device of the class described, two rigid members, a member connecting said rigid members together and having a cylindrical bearing surface on which one of said rigid members is pivotally supported for limited oscillatory movement in opposite directions about a neutral position with reference to the other rigid member and means for sealing said bearing surface against the admission of foreign particles thereto, said sealing means comprising a sealing member formed of a unitary mass of resilient material and metal rings for applying sufficient radial pressure to the end portions of said sealing member as to lock the said end portions to respective rigid members against relative movement between said end portions and said respective rigid members when said rigid members are pivotally moved relatively, the central portion of the sealing member forming an elongated impervious diaphragm which is substantially free of internal stress when said one rigid member is in its neutral position.

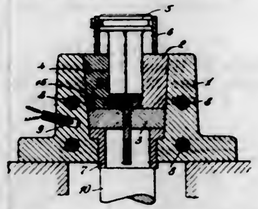


**2,389,875**
**SURFACE ACTIVE AGENTS**
**Murray Senkus, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland**
**No Drawing. Application June 15, 1944, Serial No. 540,537**
**5 Claims. (Cl. 252—8.8)**

2. An aqueous bath for the wet treatment of organic fibrous materials comprising from about 0.1 to 0.6% by weight of the treating bath of an amine selected from the group consisting of N-(2-aminoisobutyl)-1-methylheptylamine, N-(2-aminoisobutyl)-hendecylamine, N-(2-aminoisobutyl)piperidine, 1-methylheptylamine, and N-(2-aminoisobutyl)-2,4-dimethylaniline.

---

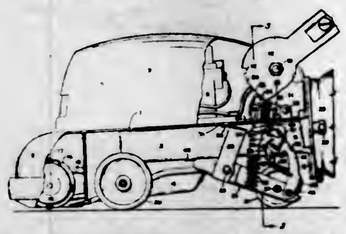
**2,389,876**
**APPARATUS FOR MAKING BLADES FOR TURBOMACHINES**
**Carl Sequin, Oberwinterthur, Switzerland**
**Application June 2, 1944, Serial No. 538,428**
**2 Claims. (Cl. 207—17)**



1. Apparatus for the extrusion of metal in forming blades for turbo-machines which comprises a mold body having an interior opening circular in cross section for receiving a matrix that is circular in cross section and rotatable in the opening, means for limiting the insertion of the matrix into the opening, said matrix comprising at least four parts, two of said parts providing a space for forming the blade root and two of said parts providing a space for forming the blade, said two parts for forming the blade root and said two parts for forming the blade being rotatably adjustable with respect to each other, whereby the angle of setting of the blade with respect to the blade root can be varied, and means for fixing the said parts in position.

---

**2,389,877**
**SUCTION CLEANER**
**Eugene L. Snyder, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application May 4, 1942, Serial No. 441,631**
**6 Claims. (Cl. 15—9)**

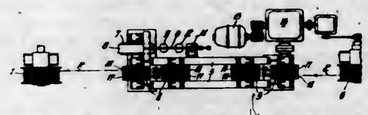


1. In a suction cleaner of the type having suction-creating means, a nozzle connected to said means, a secondary inlet connected to said means, and a barrier normally preventing the connecting of dusting tools to said inlet, adjustable nozzle-supporting means connected to said barrier and movable to move said barrier to inoperative position, and means to fix the position of said supporting means relative to said nozzle in cleaner operation comprising engageable means some of which are fixed relative to said nozzle and some of which are movable with said supporting means, means controlling the movement of said engageable means to effect their return to their initial relationship upon the movement of said barrier to and from inoperative position, and operator-operated means to effect the movement of said engageable means to a different relationship upon the movement of said barrier to and from inoperative relationship.

5. In a suction cleaner, a body including a nozzle, a supporting wheel adjustably connected to said body to selectively support said body with said nozzle at one of a plurality of heights with respect to an underlying surface, and means to position said wheel with respect to said body including spring means urging said wheel from said body, said spring means being collapsible under a downward force on said body forcing said body toward said wheel and into a lowered inoperative position, first means requiring no judgment on the part of the operator to limit the extent of the separation of said body and said wheel to one position upon the removal of a downward force on said body and the upward movement thereof from a lowered position, second means requiring no judgment on the part of the operator to limit the extent of separation of said body and said wheel to a second position upon the removal of a downward force on said body and the upward movement thereof from a lowered position, means to direct the control of the wheel position to said first or to said second means depending upon which exercised control at the time the body was depressed, and operator-operated means to change the position of said last-mentioned means to change the control of the wheel position to that means, either the first or the second, which was inoperative in the preceding adjustment, characterized in that said operator-operated means is adapted to be actuated by the same force which depresses the cleaner and in that said operator-operated means is not actuated when the nozzle is to be returned to the same height it had in the preceding adjustment.

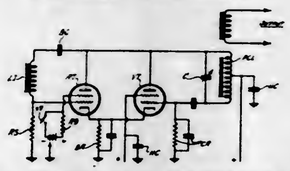
---

**2,389,878**
**STRAND ENGAGING DRUM**
**Daniel D. Symmes, West Haven, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
**Application December 31, 1943, Serial No. 516,506**
**1 Claim. (Cl. 22—71.3)**



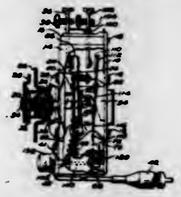
A capstan drum for shaped, flexible strand and characterized by having multiple, circumferential grooves in its periphery with a portion of these grooves at its high-tension end shaped to fit the strand and support it against deformation due to its pressure against the sides of these grooves and a portion of these grooves at its low-tension end V-shaped so the strand wedges therein due to its pressure against the sides thereof to obtain enhanced frictional engagement with these sides.

2,389,879
**FREQUENCY MODULATION**
Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application March 27, 1942, Serial No. 436,423. Divided and this application February 9, 1944, Serial No. 521,632
13 Claims. (Cl. 178—66)



1. In combination, an oscillation generator, a reactance tube having an anode, a cathode and a control electrode connected thereto for changing the frequency of oscillation of said oscillation generator, a reactance circuit for supplying quadrature voltages to the control electrode of said reactance tube from said oscillation generator, and a keying circuit for abruptly changing the conductivity of said reactance tube from one value when the key is open to another value when the key is closed.

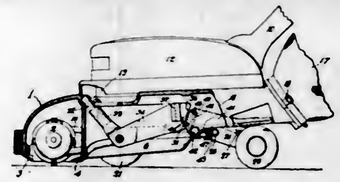
2,389,880
**TEMPERATURE RESPONSIVE DEVICE**
Victor Weber, Greensburg, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application November 2, 1943, Serial No. 508,735
12 Claims. (Cl. 200—140)



1. A control apparatus comprising a first control device movable between controlling positions and being biased to one of said positions, means initially operable for causing movement of said device against its bias from one controlling position to another, a second control device movable between controlling positions by a subsequent operation of said means upon completion of said initial operation, condition responsive means associated with said operable means and having a range of action sufficient to cause sequential operation of said control devices thereby, and manually operable means for resetting said second control device to its unoperated position.

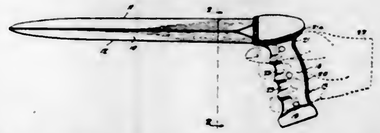
2,389,881
**SUCTION CLEANER**
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 19, 1943, Serial No. 483,549
3 Claims. (Cl. 15—16)

1. In a suction cleaner, a body having a nozzle with lips, a wheel, means pivotally mounting said wheel on said body, a toothed sector fixedly connected to said mounting means and movable relative to said body in the pivotal movement of said means, a pedal pivotally mounted on said body, a pivoted pawl carried by said pedal adapted to seat selectively upon said sector in the movement of said pedal in one direction, spring means be-



tween said body and said pedal to move said pedal in a direction to effect the engagement of said pawl and sector and to move said mounting means after said engagement, and means to limit the conjoint movement of said pawl and sector after said engagement.

2,389,882
**COMBAT KNIFE**
William H. Wood, Jr., Ansonia, Conn.
Application June 22, 1944, Serial No. 541,584
6 Claims. (Cl. 30—340)



1. A combat knife comprising a two-edged pointed blade, and a handle for said blade extending laterally thereto in the plane of the blade at an angle approaching but somewhat less than a right angle so that it is inclined backwardly somewhat from the blade and forms a grip provided with an inwardly curved recess in its upper end portion substantially in alignment with the blade forming a seat to rest in the crotch between the thumb and first finger so that the thrust longitudinally of the blade is in substantial alignment with a straight wrist of the user.

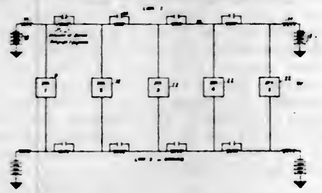
2,389,883
**FISH LURE**
R B. Worden, Granger, Wash.
Application November 29, 1943, Serial No. 512,186
5 Claims. (Cl. 43—46)



1. A fish lure for use with a fish line and a hook carried thereby, comprising a body provided at one end portion with a reeveway for the line, said body in its under portion being provided with a cavity with which the reeveway communicates and with a slot extending lengthwise of the body and in communication with the cavity, said slot being of a width to frictionally receive the shank of the hook whereby said shank is hidden within the body.

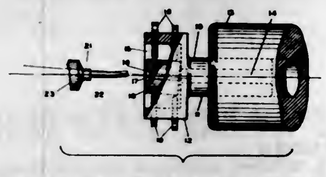


2,389,884
**APPARATUS FOR TRANSMITTING VOICE FREQUENCIES OVER A SINGLE GROUNDED LINE**
Ernest E. York, Auburn, Maine, assignor to Stanley Dana Corp., Portland, Maine, a corporation of Maine
Application May 12, 1944, Serial No. 535,243
6 Claims. (Cl. 179—3)



1. Apparatus for use at each station of a single, grounded telegraph line connecting telegraph instruments at each station, said apparatus comprising bypass filters between stations to bypass voice currents around said instruments to avoid interference with their use, inductance coils at terminal stations to prevent voice currents from entering battery circuits of terminal stations, a pre-amplifier, a main amplifier, a power supply for said amplifiers, an incomplete transmitting circuit connected to said line and to the ground thereof and including a voice transmitter and said pre-amplifier, an incomplete receiving circuit connected to said line and to said ground and including a voice filter and a voice receiver and switch means at each station to complete either of said circuits by including said main amplifier therein.

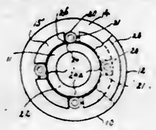
2,389,885
**METHOD AND APPARATUS FOR STRAIGHTENING BLANKS**
Martin E. Anderson, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application September 9, 1942, Serial No. 457,706
8 Claims. (Cl. 153—32)



1. The method of straightening a bar stock blank to conform to a predetermined axis which comprises rotating said blank about said axis, forcing over said rotating blank along said axis an element having an extended opening therein, and subsequently withdrawing said element, the axis of said opening being at an angle with said axis of rotation, and the walls of said opening engaging the surface of said rotating blank during the relative axial travel between said blank and said element to effect straightening of said blank.

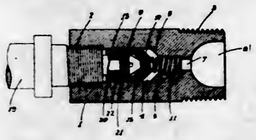
2. A tool for straightening a blank supported at one end in the rotating headstock of a lathe, comprising a holder adapted to be mounted in the tailstock of said lathe for longitudinal adjustment with respect to said headstock, and carrying an element bored with an axially extended opening, means cooperating with said element for maintaining the latter in a fixed position in said holder with the axis of said opening at an angle with the axis of said headstock, said holder together with said element being adapted to be axially advanced and withdrawn with respect to said blank while said blank is being rotated in engagement with the opening in said element.

2,389,886
**UNIVERSAL ROTARY DRIVE LOCK**
Joseph Bardega, Detroit, Mich.
Application July 17, 1944, Serial No. 545,366
3 Claims. (Cl. 192—8)



1. A lock of the kind described including a driving member, cylindrical in form and provided with a lateral flange, a plurality of segments rising from the surface of said flange in a concentric arrangement thereto, said segments being spaced from each other to form radial slots, a plurality of radial recesses in the body of the driving member, inwardly of the segments, a roller in each slot, a driven member in the form of a hollow cylinder, having at end a plurality of tongues, in the direction of its axis, to fit into said recesses with allowance for play in the direction of rotation, the driven member having an expanded annular portion with a plurality of spaced planes each bearing against a respective roller at an angle to a line between the center of the driving member and the center of the roller, a cylindrical member to couple the driving and driven members, said member having an inner race abutting the outer surfaces of the rollers, and means to secure the coupling member in its place.

2,389,887
**VALVE UNIT**
Benjamin Baxter and Samuel M. Kandarian, Fowler, Calif.
Application January 31, 1944, Serial No. 520,450
1 Claim. (Cl. 137—152)

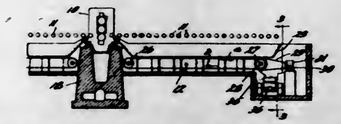


A fluid pressure shock absorbing valve unit comprising a body having a bore therethrough, a pressure responsive plug valve slidable in said bore, a seat in the bore against which the valve is adapted to close, yieldable means normally holding the valve open relative to said seat, the valve when open permitting free flow therepast, and restricted passage means to bleed fluid through the valve when the latter is closed, said last named means comprising a bore through the valve, and a screw threaded into one end portion of the valve bore, said one end portion of said valve bore having with a less number of threads than the screw and the internal diameter of said bore being slightly oversize with respect to said

bore threads, whereby when the screw is threaded into the valve bore a slight clearance remains between the cooperating threads on the screw and said bore threads, and the inner end threads of the screw pass beyond the corresponding end of said bore threads and deform in the adjacent unthreaded portion of the valve bore, locking said screw in place.

---

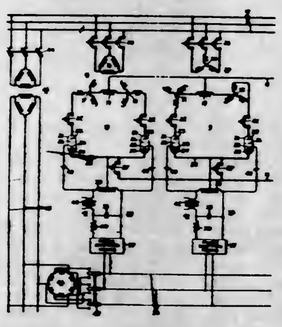
**2,389,888**
**MILL**
**Floyd A. Beatty, Pittsburgh, Pa., assignor to Treadwell Engineering Company, Easton, Pa., a corporation of Pennsylvania**
**Application October 12, 1943, Serial No. 505,985**
**1 Claim. (Cl. 80—44)**



Mechanism of the type described comprising the combination with means for shaping metallic objects by the application of working or forging pressures thereto while the work is heated and in plastic condition, a work support adjacent said means for supporting work for movement in a generally horizontal path toward or away from said means, said support comprising spaced work supporting members between which scale which becomes detached from the work may fall, a chute below said work support, having a scale-receiving opening at its upper end which is coextensive in area with the work support and a smaller scale discharging opening at its lower end, and conveyor means positioned below the discharge opening of the chute for receiving all of the scale falling through said work support and chute and continuously removing the same to a point of disposal.

---

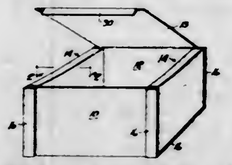
**2,389,889**
**ELECTRIC VALVE TRANSLATING APPARATUS AND A METHOD OF OPERATING THE SAME**
**Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 27, 1943, Serial No. 496,358**
**4 Claims. (Cl. 315—195)**



1. In combination, a supply circuit, a load circuit, at least one of said circuits being an alternating-current circuit, electric valve translating apparatus interconnecting said circuits including a plurality of electric valve units arranged to operate in parallel, each of said units comprising electric valve means including an anode, a cathode, and a starting electrode of the make-alive type, excitation circuits associated with said starting electrodes for supplying electrical impulses to said electrodes at the periodicity of said alternating-current circuit, means for energizing said excitation circuits with alternating voltages having such a phase relation with respect to the anode-cathode voltages of said electric valve means that said starting electrodes are energized during the interval that the associated anodes are negative with respect to the associated cathodes, and means for shifting abruptly the phase of the voltage impressed on all said excitation circuits to render said electric valve means conductive.

---

**2,389,890**
**CONTAINER**
**John E. Berah, Penn Township, St. Joseph County, Ind.**
**Application March 1, 1943, Serial No. 477,525**
**14 Claims. (Cl. 229—23)**



1. A container comprising at least three panels interconnected in a unit and shiftable about parallel axes between operative and flat positions, cleats secured to the ends of two normally opposed panels and defining inwardly facing grooves, and end structures closing the ends of said container and each comprising an end panel pivotally connected to the panel intermediate said cleated panels and bearing against the outer edges of said cleats and locking means pivoted to the upper end of said end panel and including an elongated member depending at each side thereof to fit within said grooves to lock said first named panels in operative relatively perpendicular position.

---

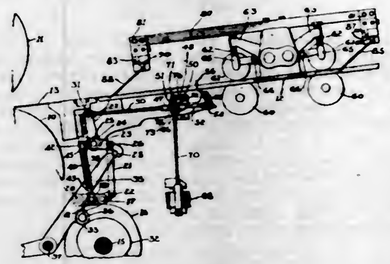
**2,389,891**
**METHOD AND MECHANISM FOR CONTROLLING THE OPERATION OF PRINTING MACHINES**
**Edgar L. Budden, Richmond Hill, and William C. Wicking, Woodhaven, N. Y., assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York**
**Application September 16, 1941, Serial No. 411,068**
**18 Claims. (Cl. 101—145)**

3. In a printing machine, cooperating printing cylinders, means defining a feed path along which separate sheets are fed to the printing cylinders at a speed commensurate with the operating speed of the printing cylinders, an area in the feed path of substantially the same length as the longest sheet to be fed, interrupter mechanism operable for interrupting the printing operation of the machine, a yieldable detector normally located in the feed path at each terminal of the area and movable from the feed path to actuate the interrupter mechanism by the engagement of a sheet with the detector during the movement



of the sheet along the feed path towards the printing cylinders, and means continuously moving in time relation with the printing cylinders and coacting with each detector to control the operation of the interrupter mechanism whereby the said interrupter mechanism is actuated if a sheet engages a detector in arriving at or leaving the area at an improper time the detector from the feed path at an improper time or continues to engage and hold it from the feed path during an improper time interval.

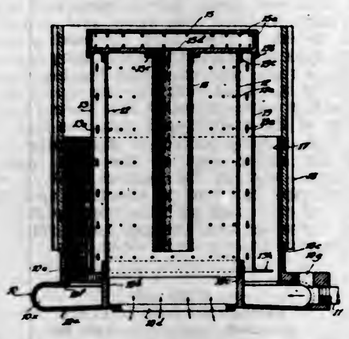
18. The method of controlling the operation of a printing machine having printing cylinders to



which sheets are successively fed along a feed path at a predetermined linear speed, which consists in providing an area in the path in advance of the printing cylinder of substantially the same length as the longest sheet to be fed, automatically checking each sheet as it enters the area and leaves the area to determine if the sheet arrives at, travels through and leaves the area in proper time relation to the operating speed of the printing cylinders, and automatically interrupting the printing operation of the machine if a sheet enters or leaves the area at an improper time and passes therethrough during an improper interval.

---

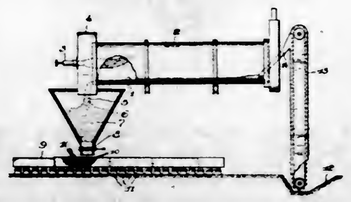
**2,389,892**
**OIL BURNER**
**Boyd F. Castle, Quincy, Ill., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill., a corporation of Illinois**
**Application July 16, 1943, Serial No. 494,963**
**7 Claims. (Cl. 158—91)**



1. An oil burner comprising an open topped base member having a fuel chamber and an aperture for passage of air, a sleeve mounted upon said base member in communication with said aperture, a co-axial shell spaced from said sleeve to form a mixing chamber therewith in communication with said fuel chamber, said sleeve and shell being provided with aligned apertures coacting to jet air from said base aperture into and through said mixing chamber, and encasing means surrounding and spaced from said shell to form a combustion chamber therewith for receipt and combustion of air and gases flowing from said mixing chamber, said encasing means including a sectional member, the sections of said member being loosely associated to permit relative movement thereof.

---

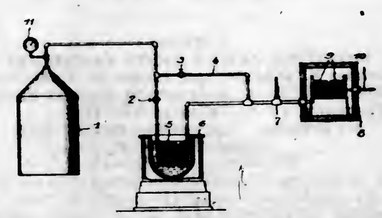
**2,389,893**
**DRYING FORMED BATTERY PLATES**
**Melvin F. Chubb and Percy F. Ebert, Joplin, Mo., assignors to The Eagle-Picher Company, a corporation of Ohio**
**Application December 3, 1943, Serial No. 512,737**
**3 Claims. (Cl. 136—33)**



1. The method of treating formed storage battery plates of the lead-acid type which comprises surrounding the wet storage battery plates with heated sand which is substantially hotter han the boiling point of water at ordinary pressures and maintaining them in contact with the sand until the water originally present in the plates has been completely vaporized and removing the dried plates from contact with the sand.

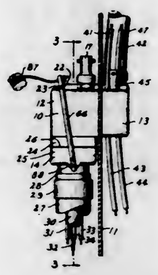
---

**2,389,894**
**DRY CHARGED ACCUMULATOR PLATE**
**Melvin F. Chubb and Percy F. Ebert, Joplin, Mo., assignors to The Eagle-Picher Company, a corporation of Ohio**
**Application December 3, 1943, Serial No. 512,738**
**5 Claims. (Cl. 136—33)**



5. The step-by-step process of treating formed storage battery plates of the lead acid type comprising the steps of subjecting the formed and washed plates to an atmosphere of superheated steam at substantially atmospheric pressure, continuously admitting superheated steam until all the moisture within the active material of the plate has been converted to steam.

**2,389,895**
**DETACHABLE JUNCTION BOX FOR INFLATABLE SUITS**
**Russell S. Colley, Kent, and Carroll P. Krupp, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application June 3, 1942, Serial No. 445,586**
**5 Claims. (Cl. 174—21)**



1. A junction box for the connection of respective electrical conduits and fluid conduits through the wall of a hollow body, said box comprising an element adjacent one side of said wall and having a pair of faces, one of said faces seating against said wall and the other face disposed substantially normal thereto, a second element oppositely disposed and immovably secured to the first said element and adjacent the other side of said wall, a terminal element engageable with the first said element at the second said face thereof, means for detachably engaging said terminal element with the first said element by movement substantially parallel to the wall, an electrical conduit and a fluid conduit extending through said elements and said wall, means for interrupting the flow of electrical energy through said electrical conduit by the disengagement of the first said element and said terminal element, a valve structure disposed within the fluid conduit in the first said element and in said terminal element, and means for opening the valve by the engagement of the first said element with said terminal element and to close the valve by the disengagement of the latter said elements.

---

**2,389,896**
**MODIFIED ALKYD RESIN VARNISHES**
**Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York**
**No Drawing. Application July 14, 1942, Serial No. 450,917**
**6 Claims. (Cl. 260—42)**

1. A coating composition comprising a solution in an organic solvent of (1) a soluble fatty oil-modified alkyd resin and (2) a fusible, soluble resin obtained by heat reacting, under alkaline conditions, a 1-aryl substituted guanazole with an aldehyde in the absence of an alcohol and in the mol ratio of from one to about 3¼ mols aldehyde per mol guanazole until the resinous reaction product is solid at room temperature, the said guanazole resin comprising from 30 to 60 per cent of the combined guanazole resin-alkyd resin base content of said coating composition.

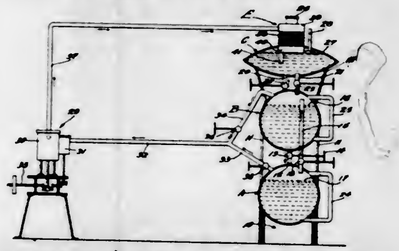
**2,389,897**
**MOUNTING FOR LICENSE PLATE FRAMES OR THE LIKE**
**Hubert E. Davis, Boston, Mass., assignor to A. S. Campbell Co., Inc., East Boston, Mass., a corporation of Massachusetts**
**Application July 5, 1940, Serial No. 343,982**
**3 Claims. (Cl. 40—125)**



1. In combination with a split tube for embracing an edge of a plate, means for holding the two assembled comprising a spring element having a generally U-shaped middle no wider than the split merging into outwardly bent portions defining locking shoulders not more distant from the end of the U than the interior dimension of the tube measured from said split to the opposite wall whereby they may snap behind the margins of the split and terminating in opposed jaws for resiliently gripping the opposed faces of the plate outward of the tube.

---

**2,389,898**
**STEAM GENERATOR**
**Emri J. De Cota, Larkspur, Calif.**
**Application July 17, 1944, Serial No. 545,285**
**2 Claims. (Cl. 122—458)**



1. A steam generating structure of the character stated, comprising a lower tank adapted to be filled with water and constituting a boiler, means for heating water in the boiler, a second tank supported above the first tank and adapted to be partially filled with water, said second tank being closed, a third tank disposed above the second tank and having a closed filling opening in its top, a valve controlled pipe leading from the bottom of the third tank into the top of the second tank, a valve controlled pipe leading from the bottom of the second tank into the top of the first tank, a valve controlled steam pipe leading from the upper part of the first tank into the upper part of the second tank, a steam lead-off pipe common to the first and second tanks and connected with the upper part of each above the water level therein, and a return flow pipe leading into the third tank.

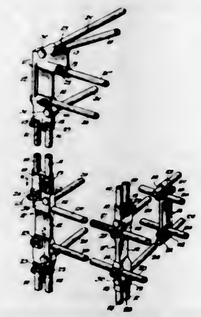
---

**2,389,899**
**BUILDING STRUCTURE**
**Leonard Deddo, Chicago, Ill.**
**Application May 31, 1943, Serial No. 489,138**
**9 Claims. (Cl. 189—1)**

1. In a building structure the combination with elongated structural elements of connectors



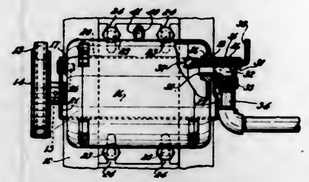
therefor comprising a body portion having structural-element-receiving apertures therein, and nut-receiving laterally open pockets on the outside of said body portion, said body portion being provided with holes to permit screws engaging laterally insertable nuts housed in said pockets to



penetrate into said apertures to engage structural elements therein, a wall of each pocket being engageable by the nut for holding it against movement away from the structural elements, said wall having an opening through which the shank of the screw extends.

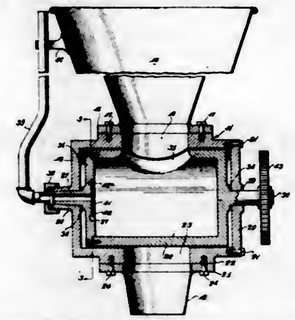
---

**2,389,900**
**MOUNTING FOR EXPLOSIONPROOF MOTORS**
**Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**
**Application October 15, 1943, Serial No. 506,438**
**1 Claim. (Cl. 172—36)**



A motor of the type which is mounted for pivotal movement about an axis eccentric to its drive shaft, an explosion proof casing enclosing and carrying said motor, a motor switch inside the casing, aligned bearings eccentric to the motor shaft formed in said casing, rigid fixed trunnions engaging in said bearings and supporting the casing, one of said trunnions having a conduit passage from within the casing to an end outside the casing and adapted at the outside end to make a tight pipe union connection to a rigid fixed outside wiring conduit, and one of said trunnions having an opening extending from the inside to the outside of the casing, and a rigid switch operating rod extending through such opening from the outside to the inside of the casing making a close but slidable fit with said opening, and affording actuation of the switch by a predetermined movement of the rod regardless of any change of position of the casing with respect to its supporting trunnions.

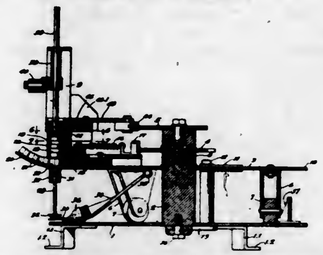
**2,389,901**
**VALVE MECHANISM FOR SPAGHETTI CANNING MACHINES**
**George M. Gillen, Paterson, N. J., assignor to Nicholas Pisapia, Paterson, N. J.**
**Application January 18, 1944, Serial No. 518,763**
**4 Claims. (Cl. 222—332)**



1. A device for dispensing measured amounts of spaghetti or the like comprising a vertically extending conduit for supplying material from a source to a point of discharge, an interiorly cylindrical valve housing in said conduit, an exteriorly cylindrical hollow valve element, means mounting said valve element in said housing for rotation on a horizontal axis, said valve element having an aperture in its cylindrical wall in position to register with the conduit above and below it, and a port centrally located in its end wall, said mounting means having a vent continuously in open communication with said port and the atmosphere, a screen disposed in spaced relation to the end wall of said valve element and covering said port, and means for periodically angularly displacing said valve element in repeated cycles 180° from a position in which its aperture is in registry with the portion of the conduit thereabove to a position in which its aperture is in registry with the conduit therebelow.

---

**2,389,902**
**LOCK NUT ASSEMBLER**
**Leopold F. Glaude, Chicago, Ill.**
**Application June 10, 1944, Serial No. 539,759**
**5 Claims. (Cl. 10—155)**

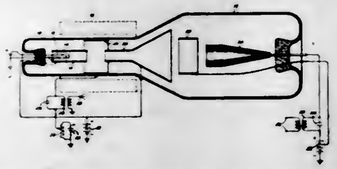


1. An assembler for lock nuts made up of a nut and a friction disc housed in a close-fitting prismatic shell and each having a central perforation and a prismatic contour, comprising an upright frame, having a base ledge, a laterally retractible member having thereon a pair of bifurcated shelves positioned above said base ledge, said ledge and shelves being adapted to support

such friction element, nut and shell in vertical axial alinement, a vertically movable centering pin movable upwardly through the perforations in shell, nut and friction elements for centering same, laterally movable jaws positioned to move into and out of engagement with the nut, friction element and shell and having ways therein for alining corresponding corners of their prismatic contours, means for withdrawing said shelves, and a vertically movable ram alined with said centering pin for forcing said nut and disc into said shell.

---

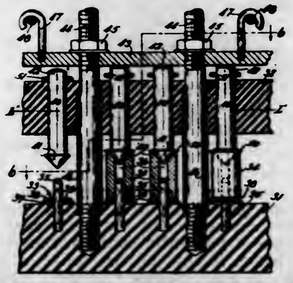
**2,389,903**
**ELECTRONIC APPARATUS**
**William C. Hahn, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**
**Application November 22, 1940, Serial No. 366,593**
**10 Claims. (Cl. 179—171)**



1. In combination, means for producing a stream of charged particles moving along a given axis, such means including a particle source and an electrode for accelerating particles from the source along the given axis, an electrode structure arranged to be traversed by the said stream and having appreciable extension in the direction of the said axis, means for biasing the said electrode structure to a potential which is below that of the said accelerating electrode and at which it causes reversal of a material portion of the beam at a point near the central transverse plane of the structure, means for cyclically varying the potential level of the electrode structure at a signal frequency in order correspondingly to vary the relative magnitudes of the reversed and unreversed portions of the stream, and means for utilizing variations which exist in the stream subsequent to the action of the said electrode structure thereon.

---

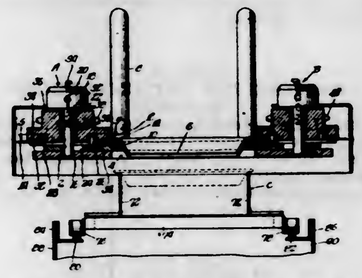
**2,389,904**
**ELECTROPLATING APPARATUS**
**Frederick W. Hampson, Holyoke, Mass., assignor to Plating Processes Corporation, Holyoke, Mass., a corporation of Massachusetts**
**Application September 24, 1942, Serial No. 459,488**
**1 Claim. (Cl. 204—297)**



An electrode rack for suspending a batch of separated articles in an electrolytic bath comprising in combination a base block of insulating material having thereon a plurality of base mountings each adapted to receive an article to be treated in said bath, a current-carrying top rail, tie bolts for connecting said top rail to said base block, sleeves of insulating material on said tie bolts, an intermediate block of insulating material carried on said tie bolts below said top rail, a plurality of current-carrying electrode studs carried in said intermediate block for relative vertical movement therein, each of said studs being arranged in vertical alignment with a corresponding base mounting and having its lower end adapted to engage the upper end of an article positioned on said corresponding base mounting for current connection therewith, and means on said tie bolts for vertically adjusting the said top rail to bring the same to bear against the upper ends of said several electrode studs in said carrier member for clamping the articles in position between the lower ends of said electrode studs and said base mountings.

---

**2,389,905**
**PIE PAN DISPENSER**
**Lloyd J. Harriss, Kenilworth, and Bernard Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss**
**Application April 10, 1941, Serial No. 387,820**
**10 Claims. (Cl. 312—44)**

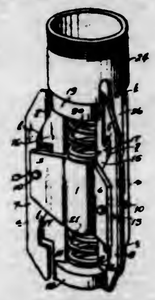


1. In a dispenser for nested receptacles, a plurality of pairs of separate movable cooperating dispensing elements operatively associated one above the other, each lower element comprising a receptacle supporting and dispensing element, each upper element comprising a separating element for separating the lowermost receptacle of a stack from the next succeeding receptacle and for supporting the stack when a receptacle is being dispensed from the lower element, one of said elements in each pair being unidirectionally rotary and the other being reciprocatory, each rotary element being so shaped as to permit release of the receptacles from the stack and means operatively associated with said elements of each pair to cause them alternately to move into and out of supporting relationship with the stack.

---

**2,389,906**
**ROD GUIDE**
**Willis J. Heard, Fort Worth, Tex.**
**Application February 3, 1944, Serial No. 520,994**
**5 Claims. (Cl. 308—4)**

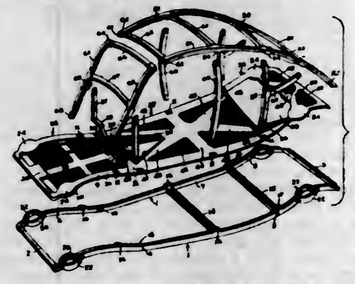
1. In a rod guide for oil well pumps, the combination with a string of pump rods in a casing, a body member having a bore for operatively embracing a rod section, a plurality of blades arranged longitudinally of the said body and extending radially therefrom and adapted to engage the inner walls of the said casing, one of the said blades being integral with the said body member and others of the said blades having movable connections with the said body member, cam blades, each having operative contact with



the said movable blades and tensioned means associated with the said body yieldably retaining the said cam blades in operative engagement with the said movable blades and effecting their contact with the casing walls.

---

**2,389,907**
**VEHICLE STRUCTURE**
**Louis W. Helmuth, Lakewood, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio**
**Application December 9, 1941, Serial No. 422,250**
**19 Claims. (Cl. 296—28)**

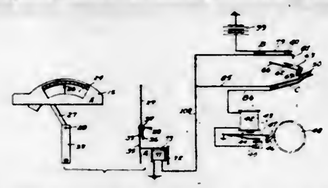


18. A vehicle chassis comprising a base frame, a body skeleton frame composed of arched roof members spaced from said base frame and flexed transversely of their length and sprung into final position on said base frame and secured under stress to said base frame at their ends.

---

**2,389,908**
**PARKING INDICATOR**
**James Hickey, Portland, Oreg.**
**Application January 20, 1942, Serial No. 427,476**
**7 Claims. (Cl. 161—15)**

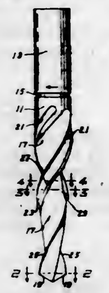
1. In a vehicle parking indicator, including a movable indicating member, a clockwork mechanism, means connecting said clockwork mechanism with said indicating member, a solenoid adapted, when energized, to disconnect said connecting means and thereby disconnect said indicating member from said clockwork mechanism, an electrical circuit connected to said solenoid, means for opening and closing said circuit, spring means for stopping the running of said clockwork mechanism whenever said indicating member is disconnected from said clockwork mechanism, said spring means also acting to stop the running of said clockwork mechanism when said



indicating member has been connected to said clockwork mechanism a predetermined length of time.

---

**2,389,909**
**ROTARY CUTTING TOOL**
**Frank Hofbauer, Detroit, Mich.**
**Application January 17, 1944, Serial No. 518,561**
**2 Claims. (Cl. 77—65)**



1. In a composite rotary chip tool, an elongated body of substantially a stepped cylindrical conformation, a supporting and rotating shank extending from one end of said body, four chip receiving flutes alternating shallow and deep and extending helically in the peripheral surface of said body, two oppositely disposed dividing walls between two of the flutes being terminated so as to form a pair of laterally projecting steps with cutting edges at diametrically opposite points on an intermediate portion of the tool body, and two other dividing walls between two of the chip receiving flutes being so terminated as to provide steps presenting a second pair of cutting edges of smaller sweep or radius projecting laterally at diametrically opposite points spaced axially toward the cutting end of the tool body from the first mentioned cutting edges so that the second mentioned cutting edges are engaged before the first mentioned cutting edges as the rotating tool is passed into an aperture to be formed or modified.

---

**2,389,910**
**FOLDABLE AND SUSPENDIBLE RACK FOR SHOES OR LIKE ARTICLES**
**Herbert E. Hoffman, Brooklyn, N. Y.**
**Application March 16, 1944, Serial No. 526,676**
**2 Claims. (Cl. 211—34)**

1. A rack for shoes comprising a pair of flexible elements, capable of suspension from a stationary object, at least two cross members spaced longitudinally relative to said flexible elements, one of said members being slidable on said flexible elements and serving to engage the heel of a shoe as a suspension means, and the other serv-

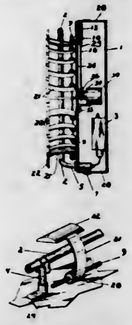
ing as abutment against the sole of this shoe, an auxiliary cross member, flexible means carrying said auxiliary cross member and stationarily suspended above said slidable member, said flexible



means extending through said slidable member and adapted to be tensioned by the downward pull of the latter and thereby to produce a clamping effect on the article.

---

**2,389,911**
**LUMINOUS DISPLAY WITH EFFECT OF ANIMATION**
**Fred Hotchner, Los Angeles, Calif.**
**Application February 6, 1942, Serial No. 429,760**
**8 Claims. (Cl. 40—139)**



1. An elongated illuminant in the outline of a design, a vibratile support coextensive with the same, a series of short light intercepting units resiliently mounted along and in front of said illuminant from said support, and means to vibrate said support to cause said light intercepting units to vibrate in front of said illuminant and produce an animation effect therealong.

---

**2,389,912**
**APPARATUS FOR TESTING CABLES AND THE LIKE**
**Isidore Jacoel, Buffalo, N. Y.**
**Application September 16, 1944, Serial No. 554,432**
**4 Claims. (Cl. 73—96)**

1. An apparatus for testing cables and the like, comprising a relatively stationary head to which the cables to be tested are adapted to be connected, tractor means for pulling on said cables including a pneumatic power cylinder and a piston reciprocable in said cylinder and adapted to be connected with said cables, a reversing valve mechanism for alternately connecting opposite ends of said cylinder with a compressed air supply and an exhaust to the atmosphere, and means for controlling the operation of said reversing valve mechanism including an electric operating device which upon being energized will



operate said valve mechanism for causing live air to move said piston in the direction for pulling on the cables being tested, and a clock operated time switch which is arranged in circuit with said electric operating device and which is adapted to automatically break said circuit after a predetermined period and cause said reversing valve mechanism to reverse the flow of live air in said cylinder and move the piston therein for releasing the pull on the cables under test.

---

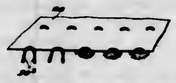
**2,389,913**
**FEED PUSHER**
**Cass S. Kasper, Grosse Pointe, Mich.**
**Application September 22, 1943, Serial No. 503,385**
**2 Claims. (Cl. 29—61)**



1. A stock pusher for an automatic screw machine or the like comprising a sleeve adapted to be shifted axially in one direction to move the stock and to be shifted idly in the other direction, a ring disposed transversely in the sleeve and through which the stock is to extend, the inner periphery of the ring being adapted to have binding engagement with the stock when the latter is tilted, means anchoring the ring on the sleeve at one point so that it may tilt and bindingly engage the stock while being axially moved by the sleeve, and a generally V shape wire spring element having the ends of its legs respectively anchored on the sleeve and engaging the ring at a location generally opposite said anchoring means, the intermediate portion of the spring being bowed circumferentially of the sleeve so that the wire extends circumferentially of the sleeve first in one direction along the inner surface of the latter and then reversely in the other circumferential direction.

---

**2,389,914**
**METHOD AND MACHINE FOR MAKING TUFTED ARTICLES**
**Jess Spencer Kile, Dalton, Ga., assignor to Cabin Crafts, Dalton, Ga., a corporation of Georgia**
**Application July 25, 1939, Serial No. 286,462**
**34 Claims. (Cl. 112—79)**



27. The method of forming spaced tufts in a fabric comprising forming a plurality of regularly-spaced loops in the fabric and cutting the loops, advancing the fabric regular distances while forming the loops, and periodically in a single step advancing the fabric a distance greater than said regular distance to space the tufts.

---



**2,389,915**
**RESISTOR DEVICE**
**Joseph J. Kielmack, Bayonne, and Gerald L. Pearson, Millington, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application January 29, 1942, Serial No. 428,654**
**7 Claims. (Cl. 201—63)**



1. A resistor device comprising a relatively stiff rod, a first member secured centrally of said rod, a second member, spring means secured to said rod and embracing said second member to hold it between the rod and spring and against said first member, said members being shaped and oriented to make substantially point contact with one another, both members having relatively hard surfaces, at least one member including a thin layer of high resistance-temperature coefficient material at the point of contact, and means for connecting each member to an electric circuit.

---

**2,389,916**
**FRAME CONSTRUCTION FOR RECEPTACLES**
**Mordie L. Lindy, Irvington, N. J.**
**Application November 9, 1942, Serial No. 464,959**
**1 Claim. (Cl. 150—29)**



Frame structure for a hand bag or the like, comprising a pair of hingedly connected nonmetallic frame members, each frame member of said frame members having spaced-apart longitudinal depending portions providing a longitudinal groove between said portions, the mouth of said groove being located at the bottom of said frame member, one of said portions being shorter than the other of said portions and having a bottom face extending inwardly relatively to the bottom face of said other of said portions and a lateral face, and a pair of longitudinal metal members each having side walls and a bottom wall connecting said side walls, one of said side walls fitting between said portions within said groove, said bottom wall and the other of said side walls extending respectively adjacent said bottom face and said lateral face, said other of said side walls being adapted to be urged inwardly towards said lateral face to clamp between it and said lateral face, a part of a flexible body for the hand bag.

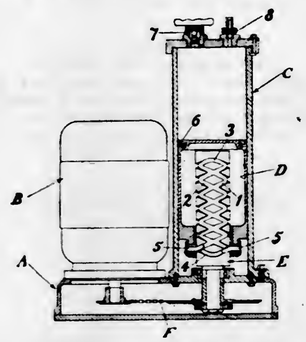
**2,389,917**
**AIRCRAFT STRUCTURE**
**Frederic A. Leisen, Grosse Pointe Farms, Mich.**
**Application October 16, 1941, Serial No. 415,162**
**8 Claims. (Cl. 244—123)**



3. In a metal airplane wing having a metal skin, a spar, a rib at each side of the spar and extending transversely to and at one end abutting said spar, said rib comprising a channel U-shape in cross-section having its legs directed towards the skin with each leg terminating in an outwardly directed flange disposed parallel to the skin and in contact therewith, each rib terminating at its end in an outwardly directed, vertically disposed end flange in contact with the spar with said flange merging into and joining the flanges along the length of the rib, means fastening the skin to the flanges along the rib and means fastening the end flange to the spar.

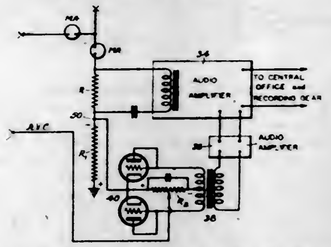
---

**2,389,918**
**RECIPROCATING PUMP**
**Charles Dalrymple Macgill, Glasgow W. 3, Scotland, assignor to Barr & Stroud, Limited, Glasgow, Scotland**
**Application August 6, 1942, Serial No. 453,894**
**In Great Britain July 21, 1939**
**2 Claims. (Cl. 230—58)**



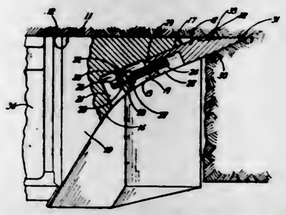

1. A single acting reciprocating pump comprising a base, assumed to be horizontal, an electric motor mounted on the base with the motor shaft vertical, a vertical rotatable shaft supported by the base and having a double helical thread cut in it over part of its length, a cylinder mounted at the base with its axis vertical, a piston reciprocating within the cylinder and into which the threaded shaft extends axially, the piston having a pressure end to act on the medium to be compressed and a part engaging with the threads of the shaft, the said shaft-engaging part being separated from the pressure end by a distance greater than the travel of the piston, gearing connecting the motor shaft with the threaded shaft, and induction and delivery valves fitted to the cylinder, the pressure end of the piston reciprocating between the inner end of the shaft and the second end of the cylinder.

**2,389,919**
**AUGMENTED AUTOMATIC GAIN CONTROL**
**Walter I. Matthews, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 16, 1942, Serial No. 469,246**
**5 Claims. (Cl. 250—20)**




1. In a receiver of carrier wave energy normally modulated by variable potentials during signalling, an amplifier of variable gain, a rectifier for deriving a negative potential the value of which varies in direct ratio to the degree of modulation of said carrier wave by said variable potentials, means including circuit components for controlling the gain of said amplifier by said derived potential, means including additional circuit components operable only in the presence of a substantially unmodulated carrier for deriving therefrom a negative gain control potential and means for applying said gain control potential to said variable gain amplifier to hold down the gain therein during the reception of said unmodulated carrier.

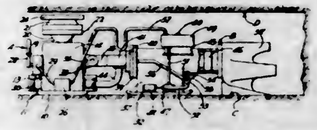
**2,389,920**
**APPARATUS FOR MINING**
**John Bridie Maver, Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa.**
**Application July 18, 1944, Serial No. 545,431**
**In Great Britain March 18, 1943**
**3 Claims. (Cl. 262—8)**



1. In a long wall mining machine having a wedge shaped head provided with a wall-engaging side face and a wedging face inclined to said side face, a cutter tip mounted on said inclined face, and means to adjust the tip along said inclined face longitudinally thereof to position its front end on either side of said side face.

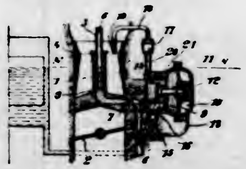
**2,389,921**
**APPARATUS FOR MINING**
**John Bridie Maver, Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa.**
**Application July 18, 1944, Serial No. 545,435**
**In Great Britain June 26, 1943**
**10 Claims. (Cl. 262—8)**

1. In a mining machine, a forward structure including a chiseling element, a rear structure including a hydraulic jack for anchoring the rear structure between the floor and roof of a mine, a hydraulic cylinder carried by one of said structures and having a piston therein, a piston rod connecting the piston to the other structure, fluid pressure producing means to produce initial actu-



ating fluid pressure in said jack, other fluid pressure producing means producing fluid pressure in an end of said cylinder for causing said forward structure to move away from said rear structure, and conduit means to conduct fluid under pressure to said jack from said end of said cylinder.

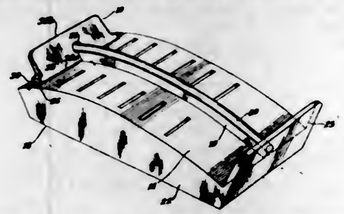
**2,389,922**
**CARBURETION DEVICE FOR INTERNAL-COMBUSTION ENGINES**
**Marcel Louis Menneson, Neuilly-sur-Seine, France; vested in the Alien Property Custodian**
**Application January 9, 1940, Serial No. 313,124**
**In Luxemburg January 9, 1939**
**5 Claims. (Cl. 261—34)**



1. A carburetor comprising an induction pipe provided with a venturi, a throttle valve located in said induction pipe, a conduit for normally supplying fuel into said induction pipe, means for maintaining a constant level of fuel in said fuel conduit, means for supplying additional fuel to said induction pipe comprising a chamber, means connecting said chamber with the normal fuel supply conduit, a second fuel conduit between said chamber and the venturi of the induction pipe, a fuel valve in said second fuel conduit, a diaphragm responsive to changes in the pressure in the induction pipe downstream of the throttle valve to pump fuel from said chamber into said second fuel conduit, an element connecting said fuel valve and said pressure responsive diaphragm for bodily operation whereby said fuel valve is opened by said diaphragm when such pressure increases, and is closed by said diaphragm when said pressure decreases, and a third fuel conduit permanently open and connecting said chamber to said second fuel conduit on the downstream side of said fuel valve, said third fuel conduit having a calibrated orifice therein.

**2,389,923**
**CARD TRAY FOLLOWER CONSTRUCTION**
**Karl H. Miller, North Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio**
**Application November 16, 1943, Serial No. 510,505**
**17 Claims. (Cl. 129—16)**

2. In a card filing device, a rail comprising a head and flange constructed and arranged to receive a multiplicity of cards having keyhole-shaped slots at their lower edges; a card supporting wall associated with the rail; and a one-piece follower member formed of flexible material having a keyhole-shaped slot at its lower edge



slidably engageable in one direction on the rail and wedgeably engageable in the other direction on the rail, the flexibility of the follower permitting lateral distortion thereof to enlarge the slot and release the wedge engagement.



**2,389,924**
**LOW TEMPERATURE LUBRICANTS**
**John D. Morgan, South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania**
**No Drawing. Application September 16, 1942, Serial No. 458,565**
**7 Claims. (Cl. 252—41)**

1. A lubricant for metallic bearing surfaces having viscosity characteristics adapted to provide effective lubrication at extremely low temperatures as well as at temperatures above normal atmospheric temperature, consisting essentially of a picoline having dissolved therein a small proportion of an extreme pressure agent sufficient to impart extreme pressure properties to the lubricant.

**2,389,925**
**ELECTRIC HEATING APPARATUS AND METHOD FOR HEATING CRANKCASE OILS**
**John D. Morgan, South Orange, and Percy B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania**
**Application December 22, 1942, Serial No. 469,784**
**9 Claims. (Cl. 219—38)**

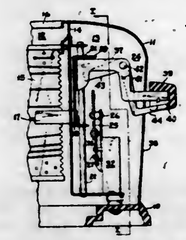


1. In an electric immersion heater for heating motor crank case oils in an oil container associated with an internal combustion engine, the heater being mounted in a substantially vertical position in the container and including a metal casing of relatively great length compared to its width, an electric resistance heating unit inside said casing adapted to supply heat thereto, an improved metal casing for receiving heat from said heating unit having an outer wall surface provided with a series of long narrow oil heating conduits running longitudinally through the heater casing, said conduits being open at the lower and upper ends, whereby the oil in said conduits is heated quickly and thereby induced to flow upwardly therein to create a circulation of oil in the container during the heating operation.

**2,389,926**
**PLASTIC SEALING CEMENTS**
**John D. Morgan, South Orange, and Russell E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania**
**No Drawing. Application April 6, 1943, Serial No. 481,998**
**2 Claims. (Cl. 106—269)**

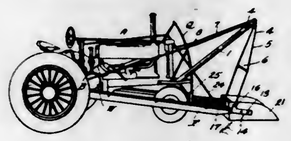
2. A plastic sealing cement consisting of asphaltic road oil consisting of 87 percent topped Panuco crude having a 13.6 gravity, an 180° to 200° F. flash when diluted with No. 2 furnace oil having a 115° to 170° F. flash, a distillation of 10 percent at 440, 90 percent at 600, and 650 end point, such oil mixture being colloidally dispersed in from about 10% to 30% of lithium stearate.

**2,389,927**
**TOASTER APPARATUS**
**Bernard F. Parr, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 23, 1943, Serial No. 495,815**
**3 Claims. (Cl. 99—391)**



1. In a toaster having a casing defining a toasting oven, a bread carriage movable between upper and lower positions within said oven, means biasing the carriage to its upper position and a latch for retaining the carriage in its lower position, the combination of an arm fixed to the carriage and extending exteriorly of the casing, a handle carried by the arm for moving the carriage downwardly into latched position and a member pivoted to said arm for manually tripping said latch, said member having a tripping leg resting upon said latch in the lower position of the carriage and a trigger spaced below said handle, said member being movable by gravity about its pivot, the construction and arrangement being such that, in the upper position of the carriage, the tripping leg is out of engagement with the latch and said trigger is moved upwardly adjacent the handle.

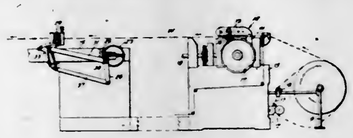
**2,389,928**
**AGRICULTURAL MACHINE**
**Gerald J. Pasker, New Vienna, Iowa**
**Application July 7, 1944, Serial No. 543,917**
**3 Claims. (Cl. 214—140)**



1. A loader for use in connection with a tractor, comprising a pair of rigid beams pivotally connected at one end to the rear axle of the tractor and having a load-lifting unit pivotally connected to the second ends of said beams, latching means mounted upon said unit for holding said unit in operative position and for releasing said unit to discharge its load, a single hydraulic hoist pivotally connected to the tractor at its forward end, said hoist extending forwardly and upwardly from its pivotal connection to the tractor, and pairs of rigid members connected to the respective ends of the beams and fixedly connected to the forward end portion of the piston of the hoist, said rigid members and piston at their point of connection being relatively immovable during use of the structure.

---

**2,389,929**
**FEED MECHANISM**
**Christian Paulsen, Fair Lawn, N. J., assignor to New Era Manufacturing Company, Paterson, N. J., a corporation of New Jersey**
**Application August 13, 1943, Serial No. 498,535**
**13 Claims. (Cl. 271—2.6)**

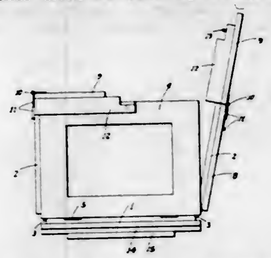


1. A feed mechanism for advancing a web of material comprising means for intermittently advancing the web, a single continuously rotating mechanism, and a pair of rigid spaced-apart links each link being directly connected at one end with said web advancing means and also operatively connected at the other end with said rotating mechanism in a single coacting unit for positively effecting a slower movement to said web advancing means during both the beginning and also the end of each operating cycle of said rotating mechanism.

---

**2,389,930**
**FOLDING TABLE**
**William J. Pendry, Brentwood, Calif.**
**Application August 23, 1943, Serial No. 499,644**
**6 Claims. (Cl. 311—90)**

1. In combination, a table top, a supporting frame separate therefrom, and on which the top is adapted to rest, a pair of parallel horizontally spaced bars on the frame, locating elements on the frame immediately below and adjacent the ends of the bars, a cleat on the bottom of the table top adapted to fit between the frame bars, and another cleat on and depending from the



first named cleat adapted to fit between said locating elements.

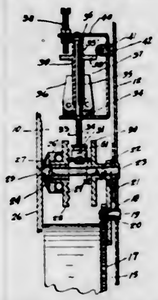
---

**2,389,931**
**METHOD FOR PRODUCING ORGANO-SILICONHALIDES**
**Charles E. Reed, Schenectady, and Jerome T. Coe, Fort Schuyler, N. Y., assignors to General Electric Company, a corporation of New York**
**Application September 27, 1943, Serial No. 504,674**
**11 Claims. (Cl. 260—607)**

1. The method of preparing an organo-silicon compound which comprises introducing a powdered mixture of silicon and a metal catalyst into a hot reaction zone, and fluidizing the powder in the reaction zone with a hydrocarbon compound capable of reacting with the silicon to form an organo-silicon compound.

---

**2,389,932**
**VARIABLE-SPEED GOVERNOR FOR MOTION-PICTURE CAMERAS**
**Thomas I. Ress, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois**
**Application February 7, 1944, Serial No. 521,341**
**1 Claim. (Cl. 188—187)**



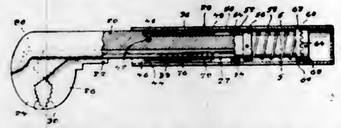
Means for controlling the speed of a spring motor of a motion picture camera comprising a supporting structure, a shaft rotatably carried by said structure, means operatively connecting said shaft to said spring motor, opposed discs on said shaft, one of said discs being freely rotatable with respect to said shaft and provided with a plurality of facial grooves, means fixedly securing the other of said discs to said shaft for rotation therewith, a friction wheel disposed between said discs and frictionally engaging the face of the disc fixed to said shaft and adapted to selectively engage the grooves of the freely rotatable



disc, a governor, said governor including a governor shaft carrying said friction wheel and having means to permit said wheel to be moved longitudinally with respect thereto, a spring-controlled governor sleeve on said governor shaft and having a brake disc, and a brake screw adapted to be engaged by said disc, in combination with means for moving said friction wheel relative to said governor shaft.

---

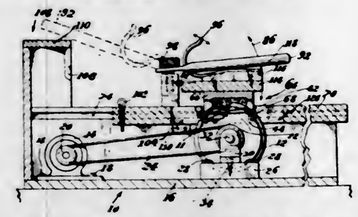
**2,389,933**
**WRENCH**
**Anton Rober, Milwaukee, Wis.**
**Application December 30, 1942, Serial No. 470,610**
**8 Claims. (Cl. 81—155)**



1. A wrench comprising a first shank having a first jaw attached thereto, a second shank slidable longitudinally of said first shank and having a second jaw, a sleeve handle mounted for relative rotary and longitudinal movement on said first and second shanks, coacting but separable latch means on said first shank and said handle to normally restrain the latter from relative rotation on said first and second shanks, a screw sleeve rotatably mounted on said first and second shanks inside said handle, an operating connection between said screw sleeve and said second shank to adjust the latter longitudinally of the first shank through rotation of said handle, elements carried by the handle and said screw sleeve for engagement with each other through movement of said handle longitudinally of said first and second shanks to connect the screw sleeve to adopt the screw sleeve to be rotated by the handle relatively to the first and second shanks, and resilient means yieldingly holding said handle in a position engaging said latch means said element on said handle and screw sleeve being in spaced relationship to each other when the latch means on the handle and first shank are thus engaged.

---

**2,389,934**
**METHOD OF AND APPARATUS FOR FABRICATING SHOULDER PAD BLANKS**
**Irving Rothenberg, Simon Kagen, and Samuel J. Gurewitz, New York, N. Y.; said Gurewitz assignor to said Kagen and said Rothenberg**
**Application February 28, 1944, Serial No. 524,278**
**15 Claims. (Cl. 154—29)**

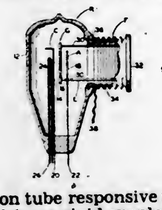


5. An apparatus for fabricating shoulder pad blanks from at least a filler interspaced between two facings having overlapping edges extending from and around the periphery of the filler, said apparatus comprising a lower member having a cavity and a lip extending therearound for seating the filler and facings in the cavity with the overlapping edges on the lip and an upper member movable into and out of engagement with the lower member, said upper member having a cavity and a lip extending therearound, said cavity in the upper member brought into alignment with the cavity on the lower member for receiving the filler and the facings in the upper mold cavity and said lip on the upper member brought into registration with the lip on the lower member against the overlapping edges seated thereon upon moving said upper member into engagement with the lower member.

6. The apparatus of claim 5, said members each having a slot aligned with the slot on the other member upon moving said upper member into engagement with the lower member, said slots extending through the members diagonally thereof and cutting means for movement through the slots.

---

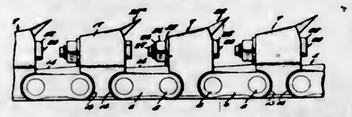
**2,389,935**
**MICROPHONIC ELECTRON TUBE**
**Jerome Rothstein, Belmar, N. J.**
**Application June 24, 1943, Serial No. 492,022**
**2 Claims. (Cl. 250—27.5)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. An electron tube responsive to vibratory wave motion comprising a rigid envelope having a relatively large circular aperture in the side wall thereof, a flexible bellows sensitive to vibratory waves, having one end sealed to the envelope at the aperture and having its outer end closed by a wave sensitive diaphragm, cathode, grid, and anode electrodes of generally flat configuration in said envelope, and means mechanically connecting the aforesaid diaphragm to one of said electrodes to vibrate such electrode and move it physically closer to and further from the other electrodes, whereby vibration of the diaphragm correspondingly changes the inter-electrode spacing of the electrodes and thereby changes the amplification factor of the tube.

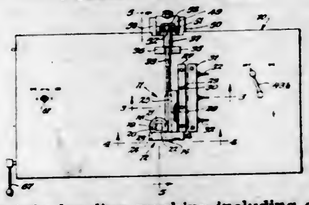
---

**2,389,936**
**CUTTER CHAIN**
**Edwin Rupp, Minot, N. Dak.**
**Application July 22, 1943, Serial No. 495,733**
**7 Claims. (Cl. 262—33)**



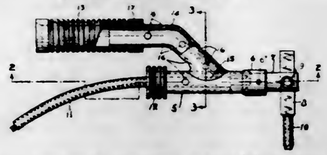
6. A cutter bit having an elongated body with a straight line top surface and a generally triangular side elevation, provided with cutting edges at its opposite ends, and having two converging cutter faces and a projection extending from said faces downwardly forming a bit retaining lug.

**2,389,937**
**TUBE BENDING MACHINE**
**Alfred Schmitt, Buffalo, N. Y.**
**Application March 29, 1943, Serial No. 480,914**
**7 Claims. (Cl. 153—40)**



1. A tube bending machine including a holder having a hub, means for removably securing a tube to said holder in a predetermined relation with respect to the periphery of said hub, means for rotating said holder about the axis of said hub to bend said tube around said hub, said means including an air cylinder, a carriage which is engageable with said tube along the side opposite that which is engageable with said hub, said carriage being freely movable and being adapted to maintain the predetermined relation between said tube and hub, a mandrel which extends into said tube and around which the tension zone of the bend is drawn during the bending operation, means, including an air cylinder, for retracting said mandrel upon completion of the bending operation, and a line through which compressed air is supplied simultaneously to both of said cylinders, said line including a restricted passage through which air flows to said second mentioned cylinder, whereby the pressure therein is permitted to reach a value high enough to retract said mandrel only after said first mentioned cylinder has been operated to rotate said holder.

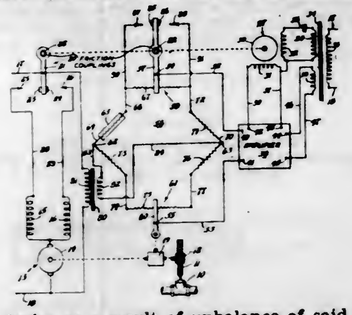
**2,389,938**
**ELECTRODE HOLDER**
**William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio**
**Application April 5, 1944, Serial No. 529,600**
**9 Claims. (Cl. 219—8)**



4. An electrode holder comprising an angle pipe fitting having a tubular body with a tubular lateral branch between its ends extending at an angle thereto, a conductor head secured to said tubular body adapted to be connected with an electric conductor cable adapted to extend through said body, and a handle secured to said lateral branch free of contact with all electrical conductors.

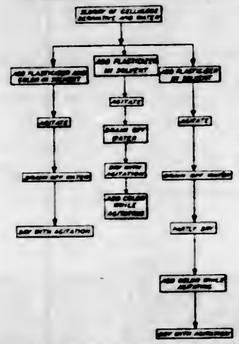
**2,389,939**
**MOTOR CONTROL SYSTEM**
**Hubert T. Sparrow, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application June 29, 1942, Serial No. 448,971**
**13 Claims. (Cl. 172—239)**

6. Control apparatus, comprising in combination mechanism to be controlled, a normally balanced electrical network, means for unbalancing said network, a pair of devices for rebalancing said network, means responsive to unbalance of said network for operating one of said devices in a manner to rebalance said network, and means effective upon a predetermined operation of said



one device as a result of unbalance of said network for controlling said mechanism and causing operation of the other of said devices to also rebalance said network, said second device having a greater effect on the unbalance condition of said network than said first device.

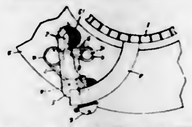
**2,389,940**
**MOLDING COMPOSITIONS**
**John K. Speicher, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**Application May 1, 1942, Serial No. 441,391**
**1 Claim. (Cl. 106—169)**



The process of preparing a molding powder which comprises forming a slurry of a water-insoluble thermoplastic compound selected from the group consisting of thermoplastic organic acid esters and ethers of cellulose, said compound being in flake form and having a particle size such that it passes through a 12 mesh screen and is retained by an 80 mesh screen, in 4 to 18 parts of water per part by weight of said compound; adding a solution containing a plasticizer for the thermoplastic compound, a dye, and a solvent which is water-miscible and which is a solvent for the plasticizer, dye, and thermoplastic compound, the solvent being insufficient in quantity to cause solution of the flakes of thermoplastic compound in the liquid present; agitating the resulting mixture; removing the supernatant water phase from the resulting treated flake material; and drying the solid product with agitation during the drying operation.

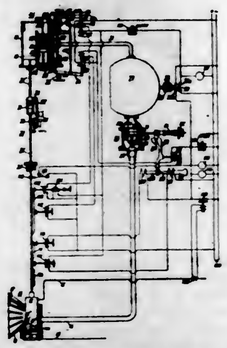


**2,389,941**
**BRUSH RIGGING**
**Hugh M. Stephenson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York**
**Application October 6, 1944, Serial No. 557,455**
**7 Claims. (Cl. 171—324)**



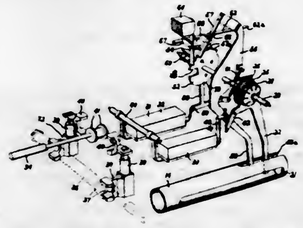
1. A brush rigging including a supporting arm adapted to hold an arcuate brush, means for pivotally mounting said supporting arm at a point spaced away from said brush, a relatively fixed spring stop, and means including a substantially Z-shaped spring with the joint between two of the connected fingers of the spring pivotally mounted about a relatively fixed point with the unconnected end finger thereof biased against said relatively fixed spring stop and with the unconnected end of the third finger of said spring arranged in engagement with said brush supporting arm at a substantially fixed point thereon maintaining a fixed spring finger length for said third finger for biasing said brush towards a current collector, said fixed spring pivotal mounting point being located relative to said spring engagement point on said brush supporting arm such that the distance therebetween varies directly with the variation of spring pressure of said first-mentioned spring finger on said fixed spring stop for different positions of said brush supporting arm within a predetermined range of pivotal motion for maintaining the pressure on the brush substantially constant in the predetermined range of motion.

**2,389,942**
**CIRCUIT BREAKER OPERATING SYSTEM**
**Carl Thumim and Edward J. Frank, Yeadon, and Alexander C. Boisseau, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York**
**Application February 6, 1940, Serial No. 317,564**
**26 Claims. (Cl. 175—294)**



1. In an operating system for an electric circuit breaker comprising a plurality of relatively movable contacts, a source of fluid under pressure, means operable by said fluid under pressure for producing relative movement between said contacts, a solenoid-operated valve for connecting said source of fluid with said last-mentioned means for opening said circuit breaker, a second solenoid-operated valve for connecting said source of fluid with said last-mentioned means for closing said circuit breaker, and means associated with said first-mentioned solenoid-operated valve for causing trip-free operation of said circuit breaker in the event that said circuit breaker is closed on an abnormal current condition.

**2,389,943**
**GUN CHARGER**
**Alexander C. Wall, Indianapolis, Ind., assignor to General Electric Company, a corporation of New York**
**Application June 17, 1942, Serial No. 447,327**
**4 Claims. (Cl. 89—1)**

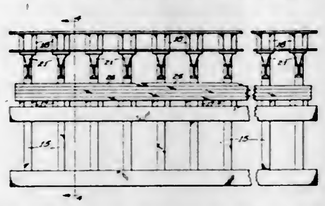


1. A charging device for an automatic gun provided with a reciprocating cocking member, said charging device comprising a first motor provided with a member arranged to engage and move the cocking member to reload the gun, control means for said motor, a movably mounted timer member, a driving member, a frictional driving connection between said timer member and said driving member providing a predetermined frictional driving force between them, a second motor, a non-reversible gearing connecting said second motor with said frictional driving member whereby said timer member is driven by said second motor from a starting position toward a second position, a resetting member connected to said timer member arranged to be engaged and moved by the cocking member of the gun thereby to move said timer member against said frictional driving force to reset it in said starting position, said timer member being driven at such speed by said second motor as to be reset in said starting position before reaching said second position during normal firing operation of the cocking member, and means operated by said timer member when driven to said second position for operating said control means to effect operation of said first motor to reload the gun.

**2,389,944**
**METHOD OF MANUFACTURING LAMINATED BUILDING MEMBERS**
**Victor J. Winkel, Portland, Oreg., assignor to Timber Structures, Inc., a corporation of Oregon**
**Application December 14, 1942, Serial No. 468,932**
**2 Claims. (Cl. 144—309)**

1. The method of manufacturing a relatively long unitary laminated member including at least one lamination comprised of a plurality of relatively short wood sections arranged in an end to end relation, said method comprising the steps of forming a pair of parallel tapered surfaces with a shoulder therebetween on the adjacent

ends of said sections, said shoulders being centrally disposed on the end surfaces of said sections and facing away from the adjacent end of the corresponding section whereby the end portions of said sections are complementary with respect to each other, said tapered surfaces extending sidewise of said sections, applying adhesive to the adjacent end surfaces and to the sides of said sections including the adjacent sides of the remaining laminations, assembling in a superimposed relation a plurality of laminations including said one lamination comprised of said



wood sections with said adhesive between adjacent end surfaces of said sections and between adjacent laminations in the unset state, the tapered surfaces of the adjacent ends of said sections being overlapped with said adhesive therebetween in the unset state, applying clamping pressure to the opposite sides of said assembly of laminations at a pair of directly opposite points and then progressively from said points to the end of said assembly and maintaining said clamping pressure throughout the length of said assembly until said adhesive has set.

---

**2,389,945**

**AIR-COOLED OFFSET TIP ELECTRODE**

**John J. Wisler, Columbia, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**

**Application April 1, 1944, Serial No. 529,067**
**3 Claims. (Cl. 219—4)**



1. A single piece offset tip welding electrode formed of copper alloy or like heat and electrical current conducting metal comprising a substantially cylindrical body portion, a substantially cylindrical tip, the vertical axes of the body and tip portions being substantially parallel but offset transversely from one another, and a web of extensive surface area integrally joining the body and tip, said web being of thin section adjacent the body and tapering to substantially greater section adjacent the tip, said web extending radially beyond the tip to provide an extensive area for the dissipation of heat from said tip.

---

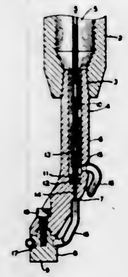
**2,389,946**

**FLUID-COOLED OFFSET TIP ELECTRODE**

**John J. Wisler, Columbia, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**

**Application April 1, 1944, Serial No. 529,068**
**7 Claims. (Cl. 219—4)**

1. In a resistance type spot welding machine, the combination with an electrode holder of an offset tip electrode comprising an electrode body, a welding tip offset from the vertical axis of the electrode holder, said tip having a contact face for engagement with the metal to be welded, a conduit for the passage of cooling fluid, said con-



duit being received within an external groove in said tip closely adjacent the contact face thereof, and means for directing cooling fluid into said electrode holder and into and through said conduit.

---

**2,389,947**

**VALVE**

**Earle F. Allen, Wellesley Hills, Mass., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey**

**Original application December 7, 1942, Serial No. 468,065, now Patent No. 2,373,001, dated April 3, 1945. Divided and this application December 29, 1944, Serial No. 570,434**
**9 Claims. (Cl. 251—156)**



1. A valve device having a casing whose walls are assembled pieces of sheet material, said casing comprising a U-shaped wall member, a top plate and end plates, means molecularly uniting two of said plates to the wall member, one of the plates being removable thereby to permit access to the interior of the casing, at least two of said plates having therein fluid flow apertures, each of the plates, which has a fluid flow aperture therein being provided with sockets in its outer surface for the reception of fasteners for securing the casing to another part.

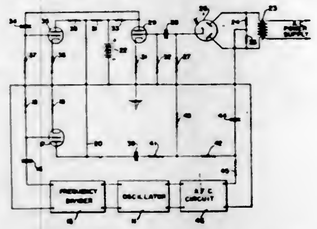


**2,389,948**

**FREQUENCY COMPARISON APPARATUS**

**Arnold H. Bartels, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware**

**Application April 30, 1943, Serial No. 485,205**
**13 Claims. (Cl. 250—36)**



1. A circuit for producing a voltage representative of the phase relation between impulses derived from an oscillator and impulses derived from a source of standardizing frequency comprising, means for producing from said source of standardizing frequency a first series of steep sided impulses at a harmonic of the standardizing frequency, means for producing from said oscillator a second series of substantially saw-toothed impulses, each having one edge of relatively great slope and the other edge of relatively small slope, means for combining said steep sided impulses and said saw-toothed impulses to produce a composite wave having pedestal portions, of substantially unvarying amplitudes and varying widths representative of the phase relation between said two types of impulses, and means for developing from said composite wave substantially continuous unidirectional voltages having magnitudes corresponding to the energy content of said pedestal portions.

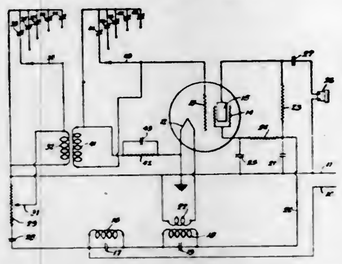
---

**2,389,949**

**SIGNAL REPRODUCING APPARATUS**

**Harry W. Becker, Chicago, Ill., assignor to Electronic Sound Engineering Company, a partnership consisting of Bernard J. Sullivan and Harry W. Becker**

**Application May 15, 1944, Serial No. 535,694**
**16 Claims. (Cl. 179—1)**



1. In a signal reproducing apparatus, an electron discharge tube having a filament, a grid and a plate, means for supplying alternating electric current at a supersonic frequency to the filament, means for supplying an alternating signal voltage in the audible frequency range to the grid, and an output circuit connected to the plate.

**2,389,950**

**PRODUCTION OF DI-CARBOXYLIC ACIDS**

**John George Mackay Bremner, Robert Holroyd Stanley, David Gwyn Jones, and Arthur William Charles Taylor, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**

**No Drawing. Application October 11, 1943, Serial No. 505,888. In Great Britain November 4, 1942**
**3 Claims. (Cl. 260—530)**

3. A process for the production of glutaric acid which comprises the steps of adding delta-hydroxyvaleric aldehyde to nitric acid, the said nitric acid containing, as an agent to reduce the induction period of the reaction, sodium nitrite, said nitric acid being precooled to a temperature below 5° C., the concentration of said nitric acid being maintained at between 45 and 65% by weight based on the free nitric acid plus water present in the reaction mixture, the temperature of the reaction mixture being maintained below 20° C.

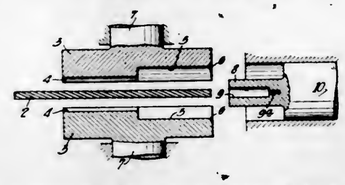
---

**2,389,951**

**BROOMED STRANDED WIRE STRUCTURE AND METHOD AND APPARATUS FOR MAKING THE SAME**

**Alan E. Brickman, New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**

**Application February 20, 1943, Serial No. 476,588**
**11 Claims. (Cl. 140—113)**



1. A method of brooming stranded wire structures preparatory to casting fittings thereon which comprises gripping said wire back of the portion to be broomed, confining the outer end of said portion, causing relative movement between said portion and said gripped section to expand the unconfined intermediate portion into a ball, releasing said confined outer end to form a spray, arranging the outer ends of said stranded wire structure into two substantially uniform clusters and fastening the elements of each cluster together.

---

**2,389,952**

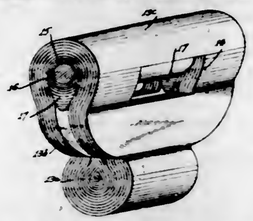
**BOX PICKER AND THE MANUFACTURE OF THE SAME**

**John J. Brown, Newton Falls, Ohio, assignor to Denman Tire and Rubber Company, Warren, Ohio, a corporation of Delaware**

**Application July 8, 1944, Serial No. 544,018**
**7 Claims. (Cl. 139—159)**

1. In a method of preparing a loom picker, the steps comprising forming a flattened tubular blank consisting of a plurality of laminations of fabric impregnated with a vulcanizable compound, having a short edge containing a greater number of laminations than the remainder of said blank, a longer opposite edge and an intermediate web portion containing an aperture in its mid-portion, inserting in said blank adjacent said longer edge a bearing tube of fibrous material impregnated with a partially set, thermosetting resin, inserting wedges in the ends of said blank

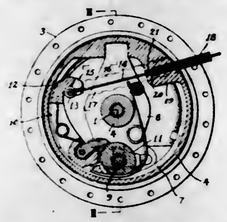
on opposite sides of said aperture and adjacent said bearing tube, said wedges tapering from said bearing tube toward said short edge and being



substantially coextensive with the ends of said aperture, placing the assembly in a mold, and subjecting the assembly to heat and pressure.

---

2,389,953
**DRUM BRAKE FOR USE IN GENERAL ENGINEERING**
**Lothar Burgerstein, Rapperswil, Switzerland**
**Application July 28, 1942, Serial No. 452,574**
**2 Claims. (Cl. 188—78)**



1. In a brake, a rotatable drum, a stationary cover for the drum, brake means operable to cooperate with the drum and including a lever within the drum, a tension cable having one end detachably connected with said lever, said cover having an opening therein extending from a point in proximity to where the cable is connected with said lever outwardly through the edge of the cover, and a closure member for the opening in the cover and removably engageable therewith, said closure member when removed enabling the detachment of the cable from said lever.

---

2,389,954
**WATCHCASE WRENCH**
**Clyde A. Burns, Corpus Christi, Tex.**
**Application April 29, 1944, Serial No. 533,336**
**2 Claims. (Cl. 81—6)**



1. A wrench comprising a flat body formed with a tapered channel opening through one side thereof and with a slot extending lengthwise of said channel and communicating therewith, a pair of work engaging members extending from one side of said body, each member being formed at one end thereof with a tapered end portion for binding engagement with the tapered sides of said channel, said slot forming a pair of shoulders at the inner end of said channel and constituting a limiting means for said members, a threaded stud carried by each member loosely extending through said slot, and a nut threaded on each stud for locking said members in adjusted position lengthwise of said channel.

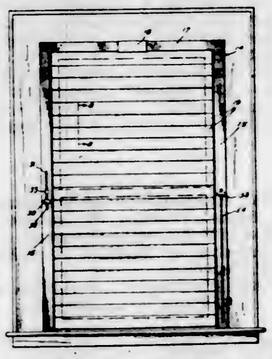
---

2,389,955
**PROCESS OF PRODUCING FAT-SOLUBLE VITAMIN CONCENTRATES**
**Loran O. Buxton, Belleville, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey**
**No Drawing. Application January 4, 1941, Serial No. 373,145**
**5 Claims. (Cl. 167—81)**

1. A process of producing fat-soluble vitamin concentrates, which comprises admixing an antioxidant for vitamins A and D with a fat-soluble vitamin-containing marine oil, saponifying the marine oil by means of an alkali and separating the unsaponified fraction from the saponified mass, the antioxidant added to the oil prior to saponification serving to inhibit destruction of the vitamins during and after the saponification reaction.

---

2,389,956
**VENETIAN BLIND**
**Albert T. Castilonia, Yonkers, N. Y.**
**Application November 27, 1944, Serial No. 565,325**
**7 Claims. (Cl. 160—172)**



1. In a Venetian blind construction of the class described, a marginal frame including hollow vertical frame members having their inner sides slotted, a plurality of coacting slats, said slats having journals at their opposite ends extending through the slots into the interiors of the frame members, means in one frame member for tilting the slats, and means in the other frame member for raising and lowering the slats.

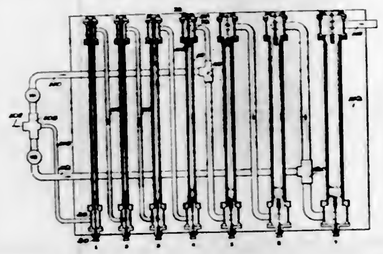
---

2,389,957
**FLOWMETER**
**Claude E. Cox, Detroit, Mich.**
**Application September 13, 1943, Serial No. 502,168**
**9 Claims. (Cl. 73—197)**

1. In a fluid flow indicator, a plurality of upright transparent fluid passage tubes arranged in series and of different flow capacities and each tube having a fluid inlet at one end and a fluid outlet at the opposite end and a grooved inside wall face forming lands between the grooves



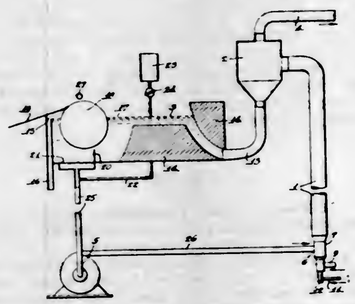
which lands have inner faces that extend parallel to the axis of the bore and which grooves taper from top to bottom, a connection receiving the lower end of each tube, a fitting receiving the upper end of each tube, a conduit establishing fluid communication between the fitting at the top of each tube and the connection at the bottom of the succeeding tube, each fitting comprising a fluid chamber communicating with said tube and a passage between said chamber and



the exterior of the fitting, and a guide tube corresponding in diameter to that of the landed portion of the transparent tube removably positioned in said fluid chamber and extending through the same into the top of said transparent tube, said guide tube including fingers at one end seated in the grooves of said transparent tube and providing slots therebetween extending beyond the end of the transparent tube for the passage of fluid from the transparent tube into the fluid chamber.

---

2,389,958
**RECOVERY OF POLYMERIC MATERIALS**
**John William Croom Crawford, Frodsham, via Warrington, and Arthur David Jones, Widnes, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
**Application February 2, 1942, Serial No. 429,333**
**In Great Britain February 28, 1941**
**14 Claims. (Cl. 260—88)**



1. In a process for recovering solid chlorinated polyvinyl chloride from solution in a volatile organic solvent, the step which comprises contacting the solution with steam in a hot aqueous medium containing a small amount of a water-soluble high molecular weight colloid.

---

2,389,959
**PLASTICIZED COMPOSITIONS**
**Russell T. Dean, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application September 26, 1942, Serial No. 459,822**
**8 Claims. (Cl. 260—36)**

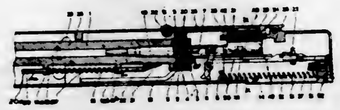
1. The process of plasticizing and softening butadiene 1,3-acrylonitrile copolymer synthetic rubber-like materials which comprises admixing with such materials a β-substituted oxypropionic acid ester having the following structural formula

$$R—OCH_2CH_2COOR'$$

in which R' is a member of the group consisting of the alkyl and alkoxyalkyl radicals and R is a member of the group consisting of the alkyl, alkoxyalkyl, cycloalkyl, aryl, aralkyl, aralkoxyalkyl and tetrahydrofurfuryl radicals.

---

2,389,960
**AUTOMATIC GUN**
**Josef Dobřemysl, London S. W. 15, England**
**Application January 21, 1941, Serial No. 375,166**
**In Great Britain January 25, 1940**
**6 Claims. (Cl. 89—3)**



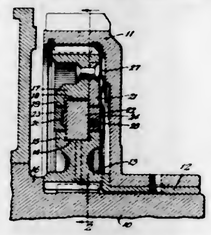
1. An automatic gun comprising a casing, a barrel, a breech block action slide, said barrel and said action slide being mounted in said casing for reciprocable movement therein during their recoil and counter recoil, a recoil spring mounted between said barrel and said casing, a second recoil spring mounted between said casing and said action slide, a trigger lever pivotably mounted on said casing, link means comprising one portion attached to and movable with said barrel and a second portion movable in a direction transverse to the axis of recoil and slidably connected to said trigger lever whereby said second portion can be moved by said trigger lever and barrel to an operative position, a sear pivotally mounted in said casing and located between said action slide and said second portion, said sear having a portion adapted to engage the action slide for holding said slide in rear position, a projection mounted on said second portion arranged to move said sear to releasing position upon movement of said second portion to operative position by said trigger lever, said projection being so positioned on said second portion to render the trigger lever inoperative to release the sear until the barrel and link means returns to forward position.

---

2,389,961
**ONE-WAY CLUTCH**
**Adiel Y. Dodge, Rockford, Ill.**
**Application April 22, 1943, Serial No. 484,031**
**10 Claims. (Cl. 192—45.1)**

1. A one way clutch comprising inner and outer coaxial races, a plurality of separate tiltable grippers between the races tiltable to one position to hold the races against relative rotation in one direction and to another position to release the races, a flange at one end of one of the

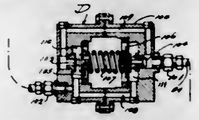
races engageable with the sides of the grippers at the end thereof adjacent said one of the races,



and resilient means urging the grippers into frictional engagement with the flange.

---

**2,389,962**
**HYDRAULIC REMOTE CONTROL SYSTEM**
**Lemuel E. Dougherty, Miami, Fla.**
**Application July 6, 1942, Serial No. 449,942**
**11 Claims. (Cl. 60—54.5)**



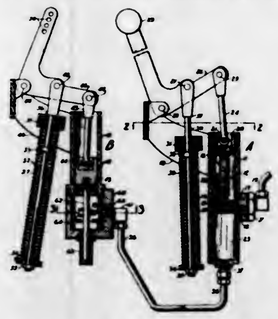
4. In a locking valve assemblage for hydraulic remote control systems having a transmitter connected to a receiver the combination of a valve, spring means acting upon said valve to hold it normally closed, a diaphragm attached to said valve, means whereby fluid pressure from the transmitter acts upon said diaphragm tending to open said valve, means whereby fluid pressure from the receiver acts upon the head of said valve tending to open said valve, the area of the diaphragm being such that a slight increase in fluid pressure from the transmitter will open said valve, and the area of the head of said valve being such that a relatively large increase in fluid pressure from the receiver will open said valve.

6. In a hydraulic remote control system, a transmitter, a receiver, a single conduit connecting said transmitter and said receiver for the transmission of two-way pressures, valve means in the conduit for controlling the connection between the transmitter and the receiver, said valve means having differentially exposed areas, one of said areas being relatively large and the other of said areas being relatively small, the transmitter being connected to the large area and the receiver being connected to the small area, the transmitter and the receiver acting upon said areas in the same direction, whereby the valve means is actuated in response to normal transmitter pressures and to abnormal receiver pressures.

---

**2,389,963**
**HYDRAULIC REMOTE CONTROL SYSTEM**
**Lemuel E. Dougherty, Miami, Fla.**
**Application September 21, 1942, Serial No. 459,176**
**7 Claims. (Cl. 60—54.5)**

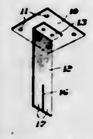
1. In a hydraulic remote control system having a receiver assemblage with a movable element, a locking device comprising clamping means adapted to offer frictional resistance to movements of the movable element in the receiver assemblage, spring means normally exerting force upon said clamping means for the operation thereof, spring means of greater force opposing the force of said spring means acting upon said clamping means, and means whereby force from the fluid pressure in the system opposes the force of said last named spring means



normally preventing any action on its part but adapted to allow such action and consequent overcoming of the force from said first named spring means upon predetermined decrease in fluid pressure from the normal fluid pressure in the system.

---

**2,389,964**
**CLIP**
**Oliver C. Eckel, Cambridge, Mass.**
**Application November 5, 1942, Serial No. 464,565**
**4 Claims. (Cl. 85—11)**



1. A clip comprising a flat base the outside surface of which extends in substantially the same plane, and a shank having a flat portion that is joined to and is substantially parallel with said base, the remainder of said shank extending from substantially the center of and at a right angle to said base, said shank being spaced inwardly from the outside edges of said base in all directions and having a slit in substantially the longitudinal center thereof which is in substantial alinement with the center portion of said base and thereby providing fingers.

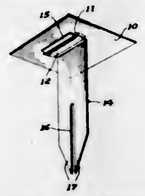
---

**2,389,965**
**CLIP**
**Oliver C. Eckel, Cambridge, Mass.**
**Application February 15, 1943, Serial No. 475,929**
**2 Claims. (Cl. 85—11)**

1. A construction clip comprising a flat base member and a shank member having a flat tongue portion of less face area than that of said base and said portion having longitudinally extending side edges spaced in a direction laterally thereof from two opposite side edges of said base, said base having an offset located at an intermediate portion of the face of said base, there being a space opposite said offset portion within the portions of said base adjoining said offset portion, said tongue portion extending into said space and



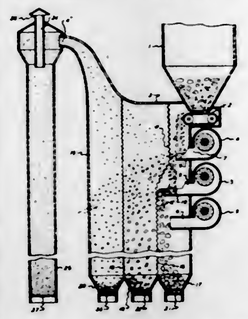
contactign said offset and said base, said shank member having another portion extending from said tongue portion at an angle thereto, the line of juncture of said two shank member portions being located directly opposite an intermediate



face portion of said base and said line of juncture having a longitudinal extent and being spaced in a direction laterally thereof from said two opposite edges, a portion of said shank member other portion being divided and thereby providing a plurality of fingers.

---

**2,389,966**
**MIXED MATERIAL SEPARATOR**
**John A. Erickson, Jackson, Mich.**
**Application November 7, 1942, Serial No. 464,888**
**3 Claims. (Cl. 209—25)**

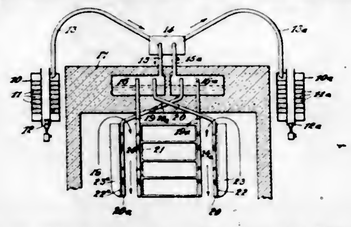


1. A separator for materials containing large and small cohered particles comprising a blower for providing a laterally directed stream of air, a substantially horizontal shelf adjacent said blower and across which said blower directs its stream of air, means to drop a stream of material onto said shelf to subject the same to a material particle separating impact, and screening and impact means in the path of said air stream for separating and breaking up the cohered large and small material particles blown into relationship with the same.

---

**2,389,967**
**REFRIGERATING APPARATUS**
**Nils Erland af Kleen, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J., a corporation of Delaware**
**Application October 3, 1941, Serial No. 413,441**
**16 Claims. (Cl. 62—126)**

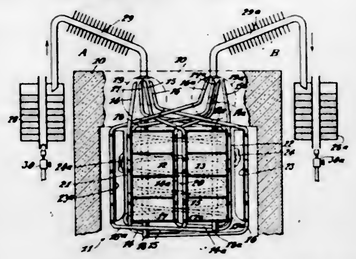
1. In a refrigerator having a thermally insulated storage space; the combination of a plurality of cooling sections divided into two groups and arranged to provide a cooling unit in said storage space having a plurality of channels for a circulating medium, each channel being formed between a separate pair of cooling sections, each pair comprising a cooling section of one group and a cooling section of the other group, and means to flow refrigeration fluid to



each of said groups of cooling sections intermittently but in out of phrase relationship one group to the other.

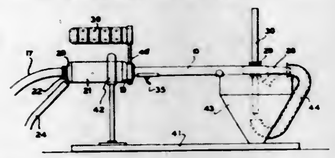
---

**2,389,968**
**REFRIGERATION**
**Nils Erland af Kleen, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J., a corporation of Delaware**
**Original application October 3, 1941, Serial No. 413,441. Divided and this application April 24, 1943, Serial No. 484,377**
**7 Claims. (Cl. 62—99)**



1. A refrigerator comprising a cabinet having a plurality of compartments to be cooled including two arranged side by side and adapted to be cooled to relatively low temperatures and another one adapted to be cooled to a relatively high temperature; and refrigerating apparatus including a plurality of cooling elements having alternate cooling and inactive periods and arranged in pairs including one pair disposed between said two first named compartments with one of the cooling elements of said pair in thermal contact with one and the other one of the cooling elements of said pair in thermal contact with the other one of said compartments, a second pair disposed on another side of one of said two first named compartments with one of the cooling elements of said pair in thermal contact and the other one of the cooling elements out of thermal contact with said compartment to provide a cooling channel for the air in said relatively high temperature compartment, a third pair disposed on another side of the other one of said two first named compartments with one of the cooling elements of said pair in thermal contact and the other one of the cooling elements of said pair out of thermal contact with said compartment to provide another cooling channel for the air in said relatively high temperature compartment, and means for operating one of the cooling elements of each of said pairs as a group and the other one of the cooling elements of each of said pairs as another group.

**2,389,969**
**ELECTRODE HOLDER**
Gilbert M. Fadeley, Struthers, Ohio
Application November 27, 1943, Serial No. 511,948
9 Claims. (Cl. 219—8)

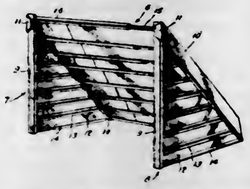


7. An electrode holder comprising in combination an elongated current conductive support having a handle adjacent one end thereof and means to retain an electrode adjacent the other end thereof, means to connect a welding current conductive cable to said support, and fluid conducting means carried by said support and including an aspirator operative to withdraw the atmospheric gases from a zone surrounding the operative tip of said electrode and to discharge the same in a direction away from said handle, said means to conduct fluid being positioned in heat exchanging relation with said support and said first and second mentioned means whereby said holder is cooled simultaneously with operation of said gas withdrawing and discharging means.

9. An electrode holder comprising in combination an elongated current conductive support having means at one end to detachably receive a welding electrode and means in said support to releasably retain said electrode, means at the other end of said support to attach a current conductive cable thereto, and a handle spaced from but extending generally parallel with the end portion of said support adjacent said cable connecting means, said handle being secured to said support by a strut extending from the end of said handle which is closest said electrode receiving means of said support.

---

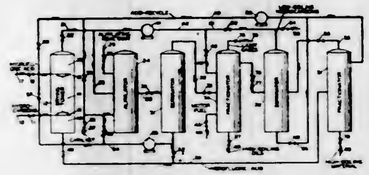
**2,389,970**
**COOL SHADE AWNING**
Albert C. Ferguson, Jacksonville, Fla.
Application April 3, 1942, Serial No. 437,567
1 Claim. (Cl. 160—223)



A ready-to-install attachable and detachable preconstructed rigid sheet material ventilating-type window awning of the class described comprising a triple section substantially visor-shaped structure embodying a pair of composite, substantially triangular vertically disposed end sections and an intervening complemental outwardly and downwardly inclined central section, each end section comprising a pair of marginal frame members, there being an inner member of relatively narrow channel-shaped cross sectional form vertically disposed and an outer member also channel-shaped in cross sectional form and constituting a topping and cornice rail inclining outwardly and downwardly, the adjacent upper and coacting ends of the respective frame members being joined together in converging relation, and each end section also including a plurality of individual horizontally disposed slats, said slats rigidly anchored at opposite ends and supported between the inner and outer frame members, the respective slats being zig-zag in cross-section to provide oppositely deflected longitudinal edge-flanges, the flat body portions of said slats being disposed in vertical alignment with one another and the adjacent flanges of the respective slats closely spaced in parallelism in order to form an openwork grille to provide for free circulation of air, proper shedding of rain and interception of sun rays, and said central section embodying extensible and retractible louvers having their outer ends rigidly fastened to said topping rails and being spaced from each other in parallelism and disposed angularly to said rails at acute angles to the wall of the building.

---

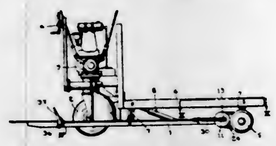
**2,389,971**
**TREATMENT OF SATURATED HYDROCARBON MATERIALS**
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 10, 1942, Serial No. 430,293
6 Claims. (Cl. 260—683.4)



6. An improved process which comprises subjecting a liquid hydrocarbon material, containing a paraffin hydrocarbon having three to five carbon atoms per molecule and dissolved hydrogen fluoride and substantially free from water, to a first fractional distillation to produce a low-boiling fraction comprising all said dissolved hydrogen fluoride and a sufficient amount of said paraffin to form an azeotropic mixture therewith and a high-boiling hydrocarbon fraction free from hydrogen fluoride, passing said low-boiling fraction to a separating zone and separating therefrom a hydrogen fluoride phase; intimately contacting in a dehydrating zone a hydrocarbon material, comprising a paraffin hydrocarbon having three to five carbon atoms per molecule and which is associated with a minor amount of water, with said hydrogen fluoride phase in liquid form, separating from the resultant mixture in said dehydrating zone a hydrocarbon phase and a liquid hydrogen fluoride phase, subjecting said liquid hydrogen fluoride phase to a second fractional distillation to produce a low-boiling fraction comprising hydrocarbon dissolved in said liquid hydrogen fluoride together with at least sufficient hydrogen fluoride to form an azeotropic mixture therewith, passing said fraction to the aforesaid separating zone, and passing to said first fractional distillation a liquid hydrocarbon material containing dissolved hydrogen fluoride and comprising hydrocarbons from said hydrocarbon phase separated from said dehydrating zone as at least a portion of the hydrocarbon material subjected to said distillation.



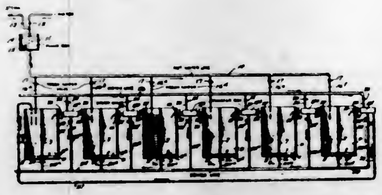
**2,389,972**
**BRAKE MECHANISM**
Truman B. Funk, Jackson, Mich., assignor to Yard-Man, Inc., Jackson, Mich., a corporation of Michigan
Application March 28, 1942, Serial No. 436,573
16 Claims. (Cl. 188—2)



1. A brake mechanism comprising a rotatable member to be braked having a brake band portion, a brake element in the form of an endless flexible band, a nonrotatable part having a brake band portion, said endless band running over said portions and being free to creep and present new surfaces to the rotated member while in service, and means for tightening and slackening said band upon said portions to brake and release said rotatable member.

---

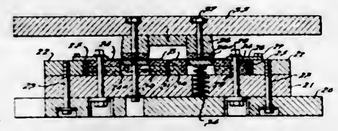
**2,389,973**
**APPARATUS AND METHOD FOR WASHING GELS**
William H. Gabeler, Baltimore, Md., assignor to The Davison Chemical Corporation, Baltimore, Md.
Application September 14, 1943, Serial No. 502,348
8 Claims. (Cl. 23—182)



1. A gel washing apparatus comprising a tank, a vertical partition dividing the tank into two compartments, a plurality of trays in each compartment, said trays having imperforate side walls and foraminous gel supporting bottoms and being arranged in assembled vertical stacks with the bottoms horizontal and the side walls of the several trays cooperating to form a continuous vertical tubular wall from the bottom to the top of the stack, means in the bottom of each compartment spacing the lowermost tray of each stack from the bottom of the compartment and providing sides enclosing the space between the lowermost tray of the stack and the bottom of the compartment, a duct placing the enclosed space between the lowermost tray of the stack and the bottom of the compartment of one compartment in communication with the corresponding space in the other compartment, a wash liquid supply inlet in the upper portion of one compartment above the uppermost tray in the stack therein, and a wash liquid outlet in the upper portion of the other compartment above the uppermost tray of the stack therein whereby wash liquid will flow from the inlet down through the stack of trays in one compartment into the aforesaid space at the bottom thereof, through said duct into the corresponding space in the other compartment, and up through the stacked trays therein to said outlet.

---

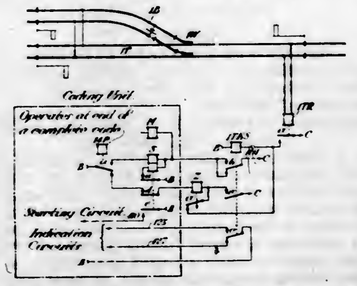
**2,389,974**
**APPARATUS FOR FORMING SHEET MATERIAL**
James W. Greig, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 5, 1942, Serial No. 460,891
8 Claims. (Cl. 153—48)



1. In a die apparatus, a die adapted to receive and support a blank to be stamped, said die having a die cavity across the top of which said blank is adapted to extend, said die having a portion thereof forming a wall of said cavity and supported for limited lateral movement, a fixed abutment extending along the outer side of said portion in spaced relation thereto, relatively thin rubber strip material bridging the space between the adjacent sides of said abutment and die portion and confined thereby along opposite outer side faces of the material, a punch shiftable into said die cavity to bend said blank into a space between the punch and said wall of the die produced at least in part to accommodate the thickness of the blank by shifting said die portion laterally against the resistance of said strip material to cause the material to flow edgewise in the direction of the plane of the strip material, and means for maintaining the outer side faces of the strip material confined against substantial displacement relative to adjacent sides of the abutment and die portion, said strip material returning said die portion to its normal position upon retraction of the punch.

---

**2,389,975**
**REMOTE CONTROL SYSTEM**
Thomas W. Hays, Salt Lake City, Utah, assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 8, 1943, Serial No. 505,504
2 Claims. (Cl. 246—3)

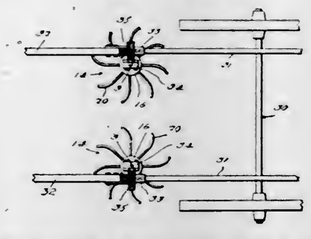



1. In a remote control system, a coding unit for transmitting impulse codes for indicating the condition of a movable device, a stick relay having a pick-up circuit including a contact closed in one position of said movable device, a nor-

mally energized starting relay effective when released to initiate the operation of said coding unit, a holding circuit for the starting relay including contacts which open the circuit momentarily in response to a change in position of said stick relay, a pick-up circuit for the starting relay closed during the operation of said coding unit, a slow release relay, an energizing circuit for said slow release relay including front contacts of the starting relay and of the stick relay, and a contact controlled by the coding unit which closes at the end of a complete code; a circuit for holding said stick relay energized independently of the condition of said movable device including its own front contact and a back contact of said slow release relay, and an indication circuit for controlling said coding unit controlled in accordance with the position of said stick relay.

---

**2,389,976**
**AGRICULTURAL DEVICE**
**Neville Z. Hebert, Jeanerette, La.**
**Original application May 8, 1941, Serial No. 392,553. Divided and this application September 16, 1944, Serial No. 554,476**
**1 Claim. (Cl. 97—60)**

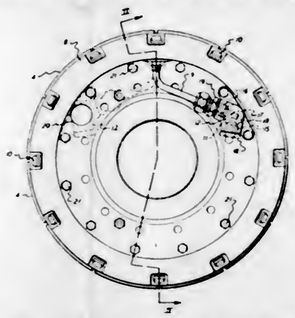


An agricultural device comprising a frame including side bars, handles, couplings connecting front ends of said handles with rear ends of said side bars, clamps disposed in transverse spaced relation to said couplings and each having an arm extending transversely therefrom across the companion coupling transversely thereof, fasteners passing through said couplings and the arms of the clamps and mounting the clamps for adjustment transversely of the couplings to set positions, shanks disposed vertically through said clamps and shiftable vertically to adjusted positions, and rotary hoes rotatably mounted at lower ends of said shanks.

---

**2,389,977**
**RIGHT-LEFT NOZZLE FITTING**
**Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan**
**Application October 4, 1943, Serial No. 504,859**
**1 Claim. (Cl. 188—152)**

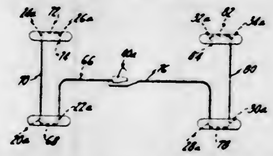
In a hydraulic brake structure, a brake supporting structure designed to reduce the number of parts required to provide similar right and left-hand brakes, and including a pair of sheet metal stampings in back-to-back relation and collectively defining a radial torque flange, a pair of aligned holes in each of said stampings, a hydraulic fitting mounted in one of said pairs of aligned holes and proportioned to fit in said other pair of aligned holes if selected, said fitting having an axial extending portion adapted to be received in said aligned openings, a pair of tubular threaded connectors constituting a part of said fitting having the connecting ends thereof angularly disposed to each other and having common communication with said axial extending portion,



and a hydraulic inlet connection located between said pairs of aligned holes and connected to one of said threaded connectors, dependent upon in which set of aligned holes said fitting is located.

---

**2,389,978**
**HYDRAULIC BRAKING SYSTEM**
**Bryan E. House, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application June 23, 1944, Serial No. 541,677**
**2 Claims. (Cl. 188—152)**



1. In a hydraulic braking system having at least two brakes and having two wheel cylinders in each brake, a conduit connecting the first cylinder of the first brake to a fluid pressure source, a conduit interconnecting the first and second cylinders of the first brake, a conduit connecting the second cylinder of the first brake to the first cylinder of the second brake, a conduit interconnecting the first and second cylinders of the second brake, and a bleed port in the second cylinder of the second brake, the entire four wheel cylinders of the two brakes being bled through said bleed port.

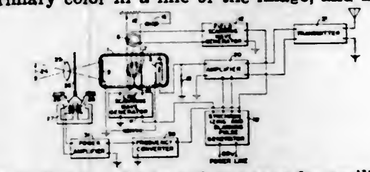
---

**2,389,979**
**COLOR TELEVISION SYSTEM**
**George W. Huffnagle, Fryeburg, Maine, assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware**
**Application April 14, 1942, Serial No. 438,911**
**9 Claims. (Cl. 178—5.2)**

1. In a television system for transmitting images in their natural colors, a photoemissive surface, means for forming an optical image on said photoemissive surface, means for scanning the electron emission from said surface, a color filter interposed between said surface and said image-forming means comprising identical groups of linear filter elements, each element in a group being adapted to pass light of a different primary color, whereby during any frame period the electron emission from each line of said surface is



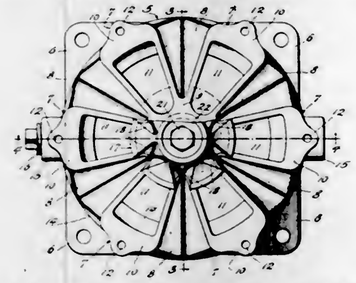
representative of one of the primary colors in the corresponding line of the optical image, means for converting said emission into trains of electrical signals each train being representative of a primary color in a line of the image, and means



controlled by said scanning means for oscillating said filter through such an amplitude that said filter elements are displaced sufficiently to analyze each line of the image as to the colors in the groups of filter elements.

---

**2,389,980**
**LOCOMOTIVE EXHAUST NOZZLE**
**John W. Hulson, Chicago, Ill., assignor to Hulson Company, Keokuk, Iowa, a corporation of Iowa**
**Application June 1, 1944, Serial No. 538,288**
**5 Claims. (Cl. 230—96)**

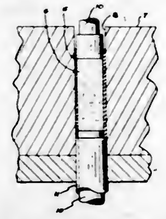


1. A locomotive exhaust nozzle comprising a hollow cylindrical body having a radially corrugated upper end providing it with circumferentially spaced radial ridges and with radial valleys between said ridges, the upper faces of said ridges being all flat and disposed in a single horizontal plane, said upper end of said body having a solid central portion and radially arranged steam discharge ports opening through said flat upper faces of said ridges; the peripheral wall of said body having a circumferential steam duct, an inlet for said duct, and blower ports, the latter being formed in the outer portions of said ridges beyond the outer ends of said steam discharge ports, said blower ports leading upwardy from said duct and opening through said flat upper faces of said ridges, all portions of said upper end of said body being at least as low as said flat upper faces of said ridges and a cone-shaped deflecting member secured on said solid central portion of the upper end of the body.

---

**2,389,981**
**METHOD OF MAKING GOLD FILLED STOCK**
**Tracy C. Jarrett, Catonsville, Md., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Original application February 8, 1941, Serial No. 378,111. Divided and this application July 20, 1942, Serial No. 451,639**
**4 Claims. (Cl. 29—188)**

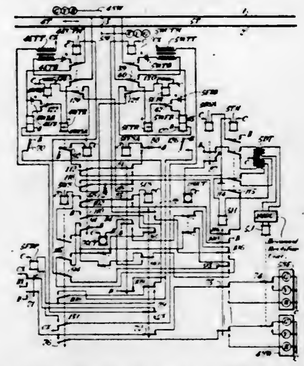
1. The method of forming precious metal filled stock of a given size and quality having a specific gravity which is less than precious metal filled stock of a similar nature, size and quality formed with a solid core comprising forming a tubular precious metal shell to a given size and with the side walls thereof of a controlled substantially uniform thickness, supporting said shell in a confining die, placing metallic particles of desired base metals in said shell with said particles comprising in part a metal having a lower melting point than the major portion of the metallic particles, subjecting said particles to a compression force of an amount sufficient to position



said particles in intimate relation with each other and with the inner walls of the shell and subjecting said shell and compressed particles of metal to heat of a temperature sufficient to bring about a sintering of said particles with each other and with the inner walls of the shell, with the upper limit of said temperature being below the melting point of the particles of highest melting point and with said melting point being below the melting point of the shell, the predetermined size of the stock being held substantially constant throughout the different operations.

---

**2,389,982**
**CODED RAILWAY SIGNALING SYSTEM**
**Arthur L. Jerome, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application March 2, 1944, Serial No. 524,708**
**11 Claims. (Cl. 246—38)**



1. In combination, a section of railway track having a first and a second track rail and through which traffic may move in either direction, a first coding relay at the first end of said section having contacts biased to a first position in which they connect a second code following track relay and a first code following detector relay across the section rails, said coding relay contacts being movable to a second position in which they con-

nect a first track battery across the section rails with the positive terminal of said battery connected to the first track rail, a second coding relay at the second end of said section having contacts biased to a first position in which they connect a first code following track relay and a second code following detector relay across the section rails, the contacts of said second coding relay being movable to a second position in which they connect a second track battery across the section rails with the positive terminal of said battery connected to the second track rail, the first track relay and the first detector relay each having a contact which is moved from a first to a second position when and only when energy flows through the winding of said relay from the first to the second track rail, the second track relay and the second detector relay each having a contact which is moved from a first to a second position when and only when energy flows through the winding of said relay from the second to the first track rail, means for at times supplying coded energy to the first coding relay, means for at other times supplying coded energy to the second coding relay, each of said track relays having associated therewith means responsive to code following operation of the said relay to supply to the section rails through the winding of said track relay impulses of feed-back energy of the polarity effective to cause energy to flow through the winding of the detector relay at the other end of the section in the direction to move the contact thereof from its first to its second position, a first control relay governed by the contact of said first detector relay, and a second control relay governed by the contact of said second detector relay.

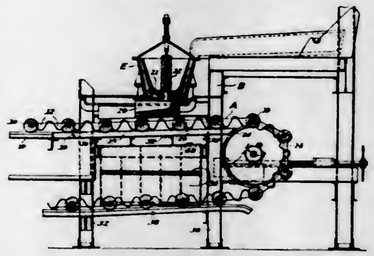
---

2,389,983

## WATER-COOLED SPARK PLATE AND RAIL FOR PIG CASTING MACHINES

Harry O. Johnson and Martin O'Hare, Donora, Pa., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application January 23, 1943, Serial No. 473,358
2 Claims. (Cl. 22—62)



1. Apparatus for casting metal, which comprises the combination with metal-pouring equipment adapted to pour molten metal at a pouring station into a series of parallel molds, of endless conveyor mechanism on which the molds are mounted, which conveyor mechanism comprises upper and lower conveyor rails for supporting the molds and along which rails the conveyor mechanism travels with the molds in upright position on a metal-receiving course and with the molds in inverted position on a return course, the upper rails comprising hollow elongated box-like structures on which the conveyor mechanism travels, the said rails being positioned along the course of travel of the conveyor immediately below the pouring station and extending from beyond the pouring station to a point adjacent to an end wheel of the conveyor mechanism, whereby the molds passing around the said wheel are positioned immediately on the said rails with avoidance of sag in the conveyor chains intermediate the wheel and rails, means in the rails dividing the rails interiorly into a water-cooled section and an air-cooled section, the said water-cooled section being positioned immediately adjacent to the pouring station, with the air-cooled section intermediate the pouring station and the said conveyor wheel, means for circulating cooling water through the water-cooled section, the air-cooled section being an open structure to enable efficient air cooling to proceed, and additional fluid-cooled protective means for the conveyor mechanism mounted above the return course of the conveyor mechanism for deflecting spilled molten metal from the pouring station away from the conveyor chains and inverted molds of the return course of the conveyor mechanism.

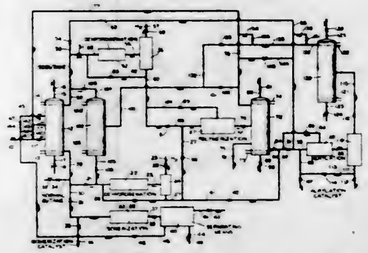
---

2,389,984

## PRODUCTION OF MOTOR FUEL

Jean P. Jones, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 21, 1940, Serial No. 362,145
2 Claims. (Cl. 260—683.4)



2. An improved process for converting isoparaffins and normal paraffins of the class consisting of butanes and pentanes to an aliphatic motor fuel stock, which comprises separating from a first hydrocarbon fractionating means an isoparaffin fraction of said class and a normal paraffin fraction of said class, subjecting a first portion of said normal paraffin fraction to isomerization to form a paraffin mixture containing isoparaffins and passing same to said first hydrocarbon fractionating means, dehydrogenating a second portion of said normal paraffin fraction to form a normal olefin fraction, dehydrogenating at least a portion of said isoparaffin fraction to form an iso-olefin fraction, copolymerizing olefins in a first portion of said normal olefin fraction and in said iso-olefin fraction to form copolymers boiling in the motor fuel range, separating from effluents of said copolymerization a copolymer fraction so produced and a hydrocarbon fraction containing unreacted paraffins and olefins, passing at least a portion of said unreacted hydrocarbon fraction to a second hydrocarbon fractionating means, removing from said second means an isoparaffin fraction and a normal paraffin fraction each containing a small amount of olefins, admixing said normal paraffin fraction with said second portion of the first said normal paraffin fraction, passing the last said isoparaffin fraction to alkylating means, passing



also to said alkylating means a second portion of the aforesaid normal olefin fraction and reacting normal olefins contained therein with isoparaffins in said isoparaffin fraction to form isoparaffins boiling in the motor fuel range, separating from effluents of said alkylation a low-boiling paraffin fraction and passing same to the aforesaid second hydrocarbon fractionating means, separating also from said alkylation effluents a motor fuel range isoparaffinic fraction so produced, and blending said copolymer fraction and the last said isoparaffinic fraction to form an aliphatic motor fuel stock containing between 5 and 30 per cent of olefins.

---

2,389,985

## RETRACTABLE PACKER

George E. Justice, Frank M. Thurston, and Furman N. Young, Houston, Tex., assignors to Houston Oil Field Material Company, Inc., Houston, Tex., a corporation of Delaware

Application May 23, 1941, Serial No. 394,784
8 Claims. (Cl. 166—12)



1. A device of the character described including, a support, a sleeve depending from said support, a packing assembly including a packer surrounding said sleeve, means connecting said packing assembly with the sleeve for limited sliding movement thereon, anchoring means surrounding said sleeve and engageable by the packing assembly for setting the anchoring means and thereby the packer when the sleeve is moved in an upward direction relative to the packing assembly, a conductor slidably mounted within the sleeve, cooperating means carried by the sleeve and conductor to prevent relative sliding movement therebetween in one direction while permitting such movement therebetween in the opposite direction, and means for detachably connecting the packing assembly and conductor together to prevent upward movement of the latter, said last-named means being operable by the sleeve to disconnect the packing assembly from the conductor when the sleeve is moved in a downward direction relative to the conductor to thereby release the packer.

---

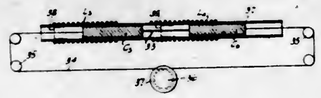
2,389,986

## PERMEABILITY TUNING SYSTEM

Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 11, 1943, Serial No. 490,417
8 Claims. (Cl. 250—40)

1. In a permeability tuning system for use in radio apparatus having a pair of circuits to be tuned, each of said circuits comprising a tuning coil and a movable magnetic tuning core, said tuning coils being coaxially arranged and their respective cores so constructed and arranged



with respect to each other and with respect to the coils that as one of the cores is withdrawn from its associated coil it is caused to enter into the other coil to thereby effect a predetermined tracking relation between said pair of circuits.

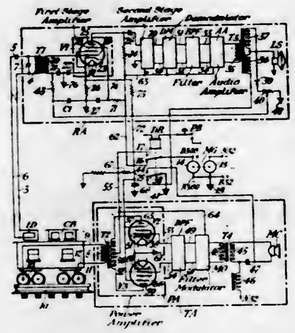
---

2,389,987

## APPARATUS FOR COMMUNICATION SYSTEMS

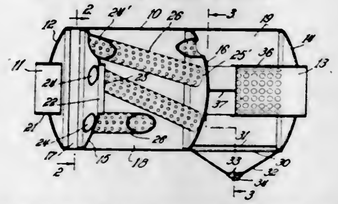
William L. Konrad, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 4, 1943, Serial No. 501,306
3 Claims. (Cl. 179—82)



1. In communication apparatus using a receiving electron tube amplifier and a transmitting electron tube amplifier at a station and which tubes are coupled to the transmitting channel through a receiving circuit and a transmitting circuit respectively and the plate circuits of which tubes are excited from a common source of current connected either to the receiving tube through a first position of a circuit controller or to the transmitting tube through a second position of the circuit controller, the combination comprising, a normally closed control grid circuit for said receiving tube coupled to said receiving circuit to impress upon the receiving tube the electromotive forces picked up by the receiving circuit, an automatic volume control circuit including a condenser connected across said control grid circuit to at times provide a negative grid bias voltage for said receiving tube, and circuit means including a resistor and controlled by the second position of said circuit controller to connect said current source to said control grid circuit of the receiving tube to provide a predetermined negative grid bias voltage for the receiving tube to avoid the flow of grid current and charging of said condenser when the transmitting tube is active.

**2,389,988**
**SILENCER AND SOLID PARTICLE SEPARATOR**
**Ralph L. Leadbetter, Wheaton, Ill., assignor, by mesne assignments, to Burgess-Manning Company, Chicago, Ill., a corporation of Illinois**
**Application May 21, 1943, Serial No. 487,889**
**17 Claims. (Cl. 181—36)**



1. A device of the character described, comprising a shell, means forming an inlet chamber, a snubber chamber and an outlet chamber in longitudinal succession in said shell, gas inlet conduit means leading into said inlet chamber, said snubber chamber having an inlet opening in direct communication and alignment with and spaced from said inlet conduit means, a plurality of apertured walled conduits passing through said snubber chamber and providing communication between said inlet chamber and said outlet chamber, the axes of said conduits being oblique to the longitudinal axis of said snubber chamber, the inlet ends of said conduits being in non-alignment with said inlet conduit means, and gas outlet means leading out of said outlet chamber.

---

**2,389,989**
**ANCHOR NUT**
**Richard W. Luce, Southport, Conn.**
**Application December 9, 1942, Serial No. 468,343**
**2 Claims. (Cl. 151—7)**

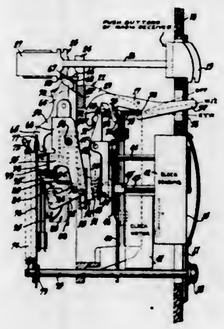


1. An anchor nut of the kind that includes an elastic element for effecting a locking action with a bolt entered in the nut which anchor nut comprises in combination a strip of sheet metal forming a flange and having a bolt-receiving opening therethrough, a sheet metal, cup-shaped case of polygonal configuration in transverse section and having an opening through the end wall alined with the bolt opening through the flange, the end wall of the case being welded to the flange, a nut of like polygonal configuration as the case within the case with one face thereon abutting against the end wall of the case, and an elastic washer of like polygonal configuration as the case within the case, the end edge of the case being bent over forming an inwardly extending flange securing the nut and washer in the case.

---

**2,389,990**
**TIME-CONTROLLED RADIO PROGRAM PRESELECTOR**
**Knut J. Magnusson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application May 6, 1943, Serial No. 485,826**
**17 Claims. (Cl. 250—20)**

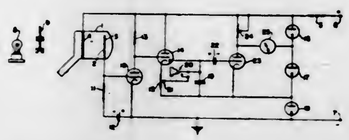
1. Control mechanism for a radio receiver provided with a plurality of push-buttons which are operable each to render the receiver selective to a predetermined station, comprising a member for selectively actuating said push-buttons, means for effecting movement of said actuating member from an inoperative position to one of a plurality of operative positions, means for moving the actuating member to the inoperative position and



for simultaneously storing up energy in the first means, means for releasing the stored-up energy to effect movement of the actuating member, and settable means operative to limit the movement of the actuating member to one of its operative positions to thereby actuate a selected one of said push-buttons.

---

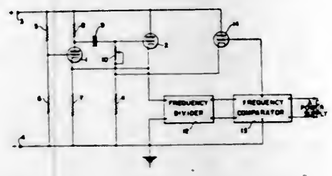
**2,389,991**
**MOSAIC SENSITIVITY INDICATOR**
**Louis F. Mayle, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware**
**Application March 18, 1943, Serial No. 479,565**
**9 Claims. (Cl. 315—368)**



1. Apparatus for producing a sustained indication of a transient voltage comprising, a vacuum tube meter including an electronic discharge device and a current sensitive device controlled thereby, a series circuit comprising a resistor, a rectifier and a condenser, an amplifier tube responsive to said transient voltage, means including said amplifier tube for impressing upon said resistor a predetermined normal voltage, means to charge said condenser substantially to said normal voltage, means for impressing an abnormal transient voltage upon said resistor, said rectifier being poled to charge said condenser substantially to said abnormal voltage and to prevent said condenser charge from subsequently reverting to said normal voltage, and means for controlling said vacuum tube meter by said condenser charge, whereby to produce a sustained deflection by said current sensitive device indicative of said abnormal voltage.



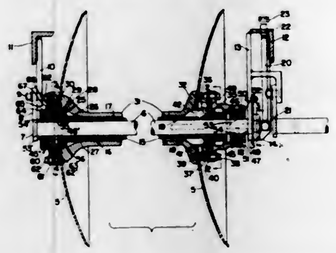
**2,389,992**
**AUTOMATIC FREQUENCY CONTROL APPARATUS**
**Louis F. Mayle, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware**
**Application April 15, 1943, Serial No. 483,138**
**1 Claim. (Cl. 250—36)**




In a television timer, a multivibrator having two electron discharge devices connected for self-sustaining alternate operation at a relatively high frequency determined by the input circuit biasing voltage of one of said devices, means for deriving from said multivibrator a voltage of substantially a predetermined frequency, a source of standardizing frequency substantially equal to said predetermined frequency, means for detecting a deviation in said frequencies, a circuit including an impedance device for developing a biasing voltage for said input circuit representative of said detected deviation, whereby to adjust the frequency of said multivibrator so as to be definitely related to said standardizing frequency, and a vacuum tube having a control grid coupled to said detecting means and a cathode connected to said impedance device.

---

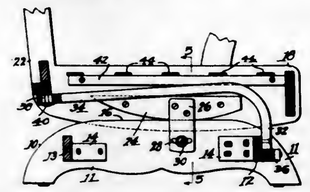
**2,389,993**
**DISK GANG ASSEMBLY**
**Rollie H. Mitchell, Huntington Park, Calif., assignor to Killefer Manufacturing Corporation, Los Angeles, Calif., a corporation of California**
**Application July 9, 1943, Serial No. 494,102**
**20 Claims. (Cl. 97—220)**



1. In a disk gang including a frame and an axle rigidly mounted thereon, the combination of a tube disposed coaxially on said axle, a plurality of ground working disks mounted on said tube, a cylindrical thrust collar rigidly fixed on said axle, means on said tube bearing on one side of said collar to transmit the thrust force of said disks to the collar, means fixed relative to said tube and rotatable therewith, bearing against the opposite side of said collar to resist axial movement of said tube in the opposite direction, and means fixed relative to said tube and rotatable therewith, journaled on the peripheral surface of said collar and adapted to transmit a substantial portion of the radial load thereto.

---

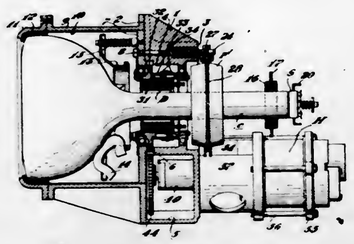
**2,389,994**
**ARTICLE OF FURNITURE**
**George E. O'Hearn, Gardner, Mass.**
**Application November 11, 1942, Serial No. 465,196**
**5 Claims. (Cl. 155—71)**



1. An article of furniture comprising side pieces and front and rear end members forming a base, a separate seat rockably supported on the side pieces, a leaf spring in the form of an L having a short and a long arm, the short arm being fixed to the front end member of the base, the long arm extending freely rearwardly to underlie the seat, a connection between the seat at its rear end only and the free end of the long arm, whereby said seat may be resiliently depressed at its rear, rocking on the base, and tending to bring the arms of the L toward each other, and whereby the seat may be resiliently depressed to a lesser degree at its front, and tending to separate the arms of the L.

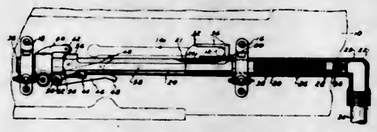
---

**2,389,995**
**POLAR COORDINATE OSCILLOSCOPE**
**Oscar W. Packer, Reading, Mass., assignor to The Sanborn Company, Cambridge, Mass., a corporation of Massachusetts**
**Application January 21, 1944, Serial No. 519,249**
**10 Claims. (Cl. 250—157)**



1. In a polar coordinate oscilloscope of the type having a cathode-ray tube, a deflection coil surrounding the tube, and a motor for rotating the deflection coil, the combination of a single integral hollow casting having two plane parallel faces, means engageable with one of said faces for detachably mounting the deflection coil on the casting, means engageable with the other of said faces for detachably mounting the motor on the casting, and drive means kinematically interconnecting the motor and deflection coil, the drive means including gearing mounted on the casting independently of the motor support and a flexible coupling between the gearing and motor.

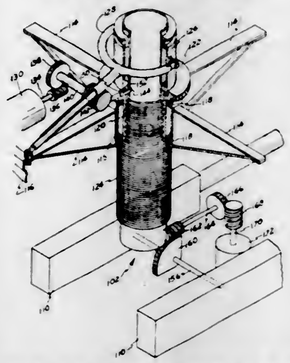
**2,389,996**
**CHARGER MOTOR**
**George W. Pontius, III, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application August 16, 1941, Serial No. 407,142**
**6 Claims. (Cl. 89—1)**



1. In a mechanism for retracting the breech bolt of a gun, a cylinder, a piston in said cylinder adapted for reciprocable movement, means connected to the piston for retracting the bolt upon movement of the piston in one direction, a latching member mounted on the cylinder for holding the bolt in retracted position, and a latch controlling member mounted on and movable with respect to said cylinder and having a two-way lost motion connection with said piston for moving the latching member to a position of latching said bolt during the bolt retracting movement of the piston and for releasing the latching member to free said bolt during the return stroke of the piston.

---

**2,389,997**
**GUN TURRET**
**George W. Pontius, III, and Royal J. Reek, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application August 19, 1941, Serial No. 407,468**
**9 Claims. (Cl. 89—37.5)**

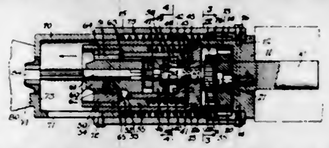


1. A turret for mounting guns in an airplane, means for extending said turret, means for preventing the extension of said turret beyond predetermined limits and for preventing unintended retraction of said turret comprising a notch, a key movable into said notch, and resilient means for moving said key into said notch whenever said turret is fully extended.

---

**2,389,998**
**AUTOMATIC TAPPING AND THREADING MACHINE**
**Jack Rosenthal, Brooklyn, N. Y.**
**Application August 23, 1944, Serial No. 550,752**
**4 Claims. (Cl. 10—138)**

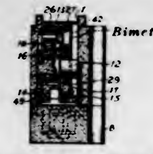
1. An automatic tapping and threading attachment for use in conjunction with work holding and rotating means, said attachment comprising a tool, rotatable tool holding means, a train of speed increasing transmission gears, rotatable telescoping sleeves which are fixed against rotary movement relative to one another, said sleeves being coaxial with the work holding and rotating



means, automatic engaging means for causing engagement of the sleeves with the work holding and rotating means, means connecting said sleeves with said transmission gears, and automatic engaging means for causing engagement of the transmission gears with the tool holding means.

---

**2,389,999**
**CIRCUIT BREAKER**
**Albert B. Rypinski, Laurelton, N. Y., assignor to Metropolitan Device Corporation, Brooklyn, N. Y., a corporation of New York**
**Application May 16, 1940, Serial No. 335,488**
**6 Claims. (Cl. 200—88)**




1. In a circuit controlling device of the kind described, the combination comprising a movable switch element, a movable latch carried by the switch element acting as a releasable latch therefor, bias means to move the switch element upon releasing movement of said latch, and a coil carried by the switch element and inductively coupled with the latch for effecting relative releasing movement of the latch with respect to the coil.

---

**2,390,000**
**LADDER CONSTRUCTION**
**Donald S. Sampson, Silver Spring, Md.**
**Application October 24, 1944, Serial No. 560,127**
**5 Claims. (Cl. 228—57)**



2. An extension ladder comprising a pair of overlapped stile members detachably connected



in end to end relation, longitudinally spaced keyhole slots formed in said stiles, the slots of the stiles at the overlapped portions being in alignment and a flat rung member insertable through aligned keyhole slots, each rung having opposed kerfs at the ends of a width and depth to snugly contact edges of the keyhole slots when said rungs are partially rotated and brought to rest upon the base of said keyhole slots.

---

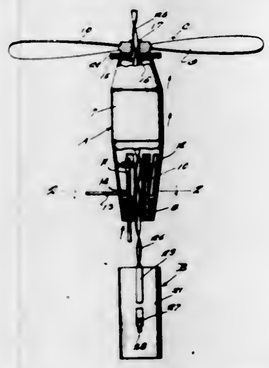
**2,390,001**
**PROCESSING OF METAL STRIP AND THE LIKE**
**Frank S. Schindler, Warren, Ohio, assignor to The Brainard Steel Corporation, Warren, Ohio, a corporation of Ohio**
**Application May 20, 1942, Serial No. 443,765**
**13 Claims. (Cl. 91—49)**



1. Apparatus for processing simultaneously and continuously a plurality of lengths of coilable material comprising in combination a plurality of freely revolving pay-off reels, processing equipment having an entering end and a discharge end, a roll having a yieldable peripheral surface intermediate said reels and said entering end, a similar roll at the discharge end of said processing equipment, said lengths being adapted to be entrained over said rolls, means to control the rotation of said first mentioned roll, and means to drive said second mentioned roll.

---

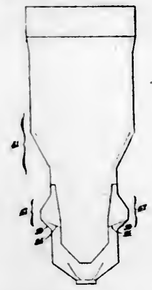
**2,390,002**
**TOY BOMB**
**Fritz Schloss, South Norwalk, Conn.**
**Application June 14, 1944, Serial No. 540,225**
**3 Claims. (Cl. 46—1)**



1. A toy bomb of the class described comprising an elongated body having propeller means at one end, an extension at the lower end adapted to right and bring the body down perpendicularly against the ground as the bomb descends, means in the lower end of the body to accommodate a sparkler, a toothed stick slidably mounted in said lower end of the bomb, an adapter at right angles to said stick, said adapter being adapted to accommodate a match whose head is placed against the stick for igniting the match in the manner and for the purposes described in order to ignite the sparkler.

---

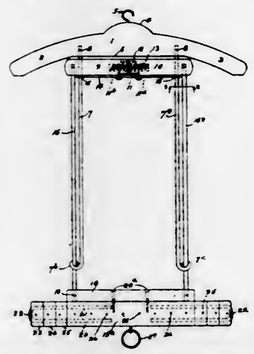
**2,390,003**
**FULL-FASHIONED STOCKING AND METHOD OF PRODUCING THE SAME**
**Paul Schmidt, Wytheville, Va.**
**Application July 12, 1944, Serial No. 544,478**
**23 Claims. (Cl. 66—187)**



1. A heel construction for a single unit stocking having a narrowing line beginning adjacent the selvage edge and extending inwardly and forwardly into the heel section.

---

**2,390,004**
**GARMENT STRETCHER**
**Alfred C. Schoepfer and John W. Parker, Detroit, Mich.**
**Application May 17, 1944, Serial No. 536,010**
**6 Claims. (Cl. 223—69)**

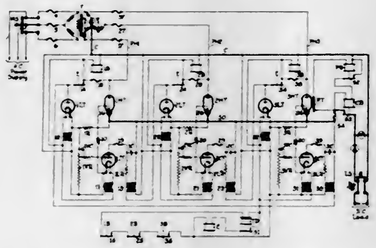


1. A device for stretching garments such as sweaters or the like comprising a head having its outer side of an arcuate form to approximately fit the shoulders of a garment, a pair of rods each having an end secured to the head and extending therefrom in substantially parallel relation, a cross member formed of two separate parts, each having a transverse aperture adjacent its outer end and being slidable on the respective rod, a spring between the parts of the cross member tending to force the same relatively outward to maintain the said parts in frictional contact with the respective rods, a rod on each end of the cross

member extending therefrom parallel with the first named rod, a bar connected to the opposite end of the last named rods, and means on opposite sides of the bar for securing the skirt of the garment thereto whereby by moving the cross member in a direction away from the head member the garment may be held in stretched relation.

---

**2,390,005**
**RECTIFIER SYSTEM**
**Harry H. Seifert and William W. Seifert, Troy, N. Y.**
**Application January 21, 1943, Serial No. 473,082**
**20 Claims. (Cl. 175—363)**

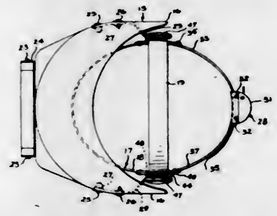


1. In combination, an alternating current supply circuit, a main electric discharge device having anode and a cathode with an ignitor element associated with said cathode, an auxiliary electric discharge device having an anode and a cathode, circuit means for connecting the anodes and cathodes of said electric discharge devices in multiple in a manner to supply unidirectional currents to a load circuit from said supply circuit whereby said auxiliary electric discharge device normally transfers relatively small currents to the load circuit and said main electric discharge device transfers relatively large currents to said load circuit when it is rendered conductive, an excitation circuit connected between the cathode and the ignitor element of said main electric discharge device and including a control electric discharge device having an anode, a cathode and a control grid for transmitting a unidirectional impulse of current to said ignitor element to render said main electric discharge device conductive each time said grid is energized at a critical value, and means for energizing said grid at a critical value for each positive half-cycle of potential applied to the anodes of said main and auxiliary discharge devices during which the load current rises above a predetermined value.

---

**2,390,006**
**WELDER'S HELMET**
**Lawrence A. Severy, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application June 8, 1942, Serial No. 446,191**
**2 Claims. (Cl. 2—8)**

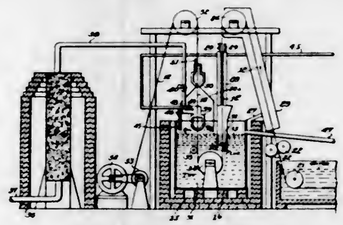
1. A welder's helmet of the class described comprising a face protecting portion, a headband supporting structure pivotally connected to said face protecting portion, said supporting structure embodying a band-like member having overlapping end portions, one of said end portions having an uninterrupted inner surface for engaging the head and having flange-like members extending outwardly of the side thereof opposed to said inner surface and in substantially parallel relation with each other, a block secured between said flange-like members, with the base of the block spaced from the outer surface of said end portion an amount sufficient to produce a slideway for receiving the opposed end portion of the band-like member and with said block extending outwardly of said outer surface an amount sufficient to produce hand engagement means, said block having a slot therein, and a spring-pressed latch pivotally supported by said block and lying within said slot with one end thereof extending into the



slideway, said opposed end portion of the band-like member having a plurality of spaced notches therein adapted to be engaged by the end of the latch member extending into the slideway, said latch member being so arranged as to permit the end portion having the plurality of notches therein to move freely in a direction inwardly of the slideway and to engage an aligned notch for restricting movement of said notched end portion in the opposite direction.

---

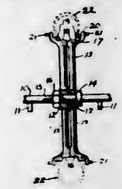
**2,390,007**
**APPARATUS FOR CONTINUOUSLY HOT DIP COATING OF TIN ON COILED STRIP**
**Clifton William Sherman, Ancaster, Ontario, Canada, assignor of one-third to Dominion Foundries & Steel Limited, Hamilton, Ontario, Canada, and one-third to C. W. Sherman, trustee for Dominion Foundries & Steel Employees' Savings and Profit Sharing Fund**
**Application December 31, 1943, Serial No. 516,551**
**6 Claims. (Cl. 91—12.1)**



3. In an apparatus for producing plated metal, means to hold a long length of base metal, means to pass the metal through cleaning means in preparation for plating, a flux bath, means to pass the metal through the flux bath, a coating bath, means to pass the metal from the flux bath directly through the coating bath, an oil bath resting on top of the coating bath, means to pass the metal from the coating bath through the oil bath, uniform pressure spray means, means to pass the metal through the spray means to uniformly remove excess coating and the oil, and means to dry the coated metal in preparation for storage.



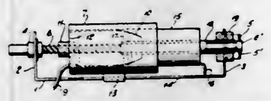
**2,390,008**
**RECAP TIRE BALANCING WHEEL**
**Fred Sherwood and Cletus J. Kris, Cheyenne, Wyo.**
**Application June 5, 1944, Serial No. 538,826**
**1 Claim. (Cl. 144—288)**



A separable wheel, for use in balancing tire casings, said wheel consisting of two similar and opposing halves mounted face to face upon a shaft for axial adjustment with respect to each other, each half comprising, a hub having a central opening for the reception of a shaft, a plurality of integral spokes extending radially therefrom, the ends of the spokes terminating in portions widened in the direction of the axis of the hub opening, each widened end portion having a tire supporting surface that is parallel with the axis of the hub, each surface terminating at its outer end in a radially extending stop, all of the stops being on the same side of the spokes and spaced the same distance from the plane of the spokes, and means for securing the two halves in a predetermined relative position upon said shaft.

---

**2,390,009**
**VARIABLE TUNING SYSTEM**
**Harold B. Stott, Glen Olden, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application May 25, 1944, Serial No. 537,277**
**5 Claims. (Cl. 250—40)**

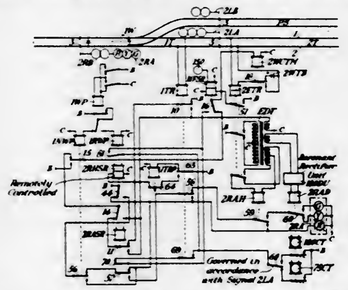


1. A tuning system for a radio receiver of the superheterodyne type having a signal input circuit and an oscillator circuit, a pair of variable capacitors included one in each of said circuits, a fixed cylindrical member constituting an electrode which is common to each of said pair of variable capacitors, a second cylindrical member coaxially arranged and movable with respect to said fixed member, and a pair of arcuate plates formed on said movable member, one of said plates constituting the variable electrode of the signal circuit capacitor and the other plate constituting the variable electrode of the oscillator circuit capacitor, said latter plate being shaped to provide a predetermined tracking relation between the signal and oscillator circuits throughout the tuning range of the receiver.

---

**2,390,010**
**RAILWAY SIGNALING APPARATUS**
**Henry A. Talbert, Churchill, and Crawford E. Staples, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application June 30, 1944, Serial No. 542,936**
**11 Claims. (Cl. 246—3)**

1. In combination, a section of railway track, a first signal governing entrance of traffic into the section at the first end thereof, a second signal governing entrance of traffic into the section at the second end thereof, a first code following relay at the first end of the section operated by energy supplied over the section rails, a second code following relay at the second end of the section operated by energy supplied over the section rails, a first and a second control relay at the first end of the section, a third control relay at the second end of the section, each of said control relays having contacts which normally occupy a first position and which may be caused to occupy a second position, means at the first end of said section effective when the contacts of said first and second control relays are in their first position to supply steady energy to



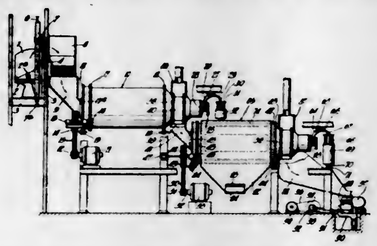
the rails of said section, means at the second end of said section effective on cutting off of the supply of steady energy over the section rails provided the contacts of said third control relay are in their first position to supply master code energy to the section rails, means responsive to code following operation of said first code following relay provided the contacts of said first control relay are in their second position to cause said first signal to provide a permissive indication and to cause impulses of feed-back energy to be supplied to the section rails in the intervals between impulses of master code, means at the first end of said section effective when the contacts of said second control relay are in their second position to supply master code energy to the section rails, means responsive to code following operation of said second code following relay provided the contacts of said third control relay are in their second position to cause said second signal to provide a permissive indication, and means responsive to energization of said second code following relay by steady energy, by master code energy, or by feed-back energy for indicating occupancy of said track section.

---

**2,390,011**
**NAIL CLEANING APPARATUS**
**William Thompson, Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
**Application June 27, 1942, Serial No. 448,877**
**4 Claims. (Cl. 51—164)**

1. Apparatus for cleaning nails comprising a rotary cleaning cylinder having helical fins therein, means for feeding a batch of nails and a cleansing agent into said cylinder, flanged scoops located in the cylinder in endwise abutting relation to said fins, a head at the outlet end of the cylinder having a converging annular wall, said scoops extending along said wall and the latter being adapted to receive said nails and cleansing agent dumped from said scoops as the cylin-

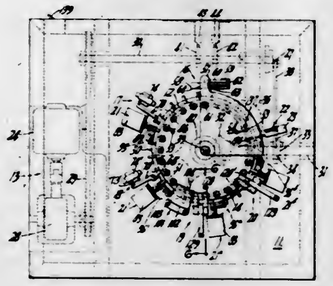
der rotates and to reverse the direction of travel thereof whereby the forwardly falling mass from the scoops is caused to cascade over the rear-



wardly falling mass sliding down said converging wall to thus cause a vigorous scouring interaction to take place between the nails and the cleansing agent.

---

**2,390,012**
**INSPECTION MACHINE**
**Roy C. Timm, Buffalo, and John Rothfuss, Orchard Park, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.**
**Application November 28, 1942, Serial No. 467,252**
**9 Claims. (Cl. 209—88)**

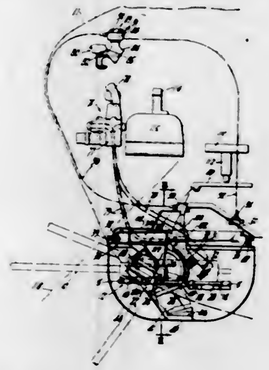


8. A machine for inspecting parts, comprising a platform having a guideway with opposed side walls and a part supporting bottom wall, a carrier overlying the guideway and movable in the direction of extent thereof, said carrier having a seat through which a part may be guided to rest on end in the guideway, said seat having fingers depending into the guideway fore and aft of the part to support the latter upright therein while the carrier is in motion, and a gauging station having a part engaging plunger mounted in a side wall of the guideway for gauging contact with the part between the fingers.

---

**2,390,013**
**AIRCRAFT COMBAT STATION**
**John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.**
**Application May 19, 1943, Serial No. 487,608**
**8 Claims. (Cl. 89—37.5)**

2. In a bomber-gunner aircraft, a combat control station comprising a gunner-bombardier compartment, a seat mounted within said compartment, a bombsight supported upon said compartment directly in front of said seat to be straddled by the legs of the gunner-bombardier when seated on said seat, a gun mounted upon said aircraft at a position externally of said compartment, said gun being universally pivotable relative to the aircraft for gun aim adjustment purposes, a gun target sight device mounted within said compartment and universally pivotable relative to the aircraft for universal sight adjustment purposes, said sight being bodily movable between stowed positions at either side of said compartment and sight operation positions directly in front of said seat, motor means for pivoting said gun relative to said aircraft for aim adjustment purposes, means operatively connecting said gun to said sight for automatically moving the latter in synchronism with aiming movements of said gun, and gun aim control means operatively connected to said motor means, said control means comprising a manually adjustable member mounted upon said aircraft at a position to one side of said bombsight and within convenient reach of the gunner-bombardier.



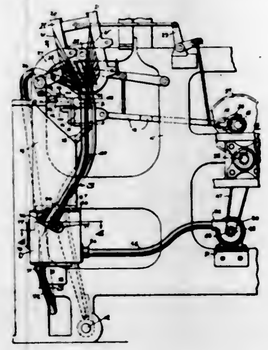
6. In an aircraft, a combat station comprising in combination, a gunner compartment, a gun mounted upon said aircraft and arranged to rotate universally for gun aim adjustment purposes, slide means extending transversely of said compartment, a gun target sight device slidably mounted upon said slide means and universally pivotable relative thereto for universal sight aim adjustment purposes, whereby the gunner may move said sight at will between stowed positions at either side of said compartment and sight operation positions intermediately thereof, motor means for rotating said gun relative to said aircraft for aim adjustment purposes, means operatively connecting said gun and said sight for automatically moving the latter in synchronism with aiming movements of said gun, and gun aim control means operatively connected to said motor means and manually adjustable to regulate the aim adjustment positions of said gun.

---

**2,390,014**
**PNEUMATIC THREAD CONTROL SYSTEM FOR LOOMS**
**Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application March 11, 1944, Serial No. 526,033**
**6 Claims. (Cl. 139—247)**

1. In a weft replenishing loom having a magazine with reserve bobbins from which extend weft ends, the loom having shipper mechanism, a driving motor capable of being connected to and disconnected from the loom by the shipper mechanism, a pneumatic thread holder operative to hold the weft ends when subatmospheric pneumatic pressure exists within the thread holder, mechanism operated by the motor whenever the latter

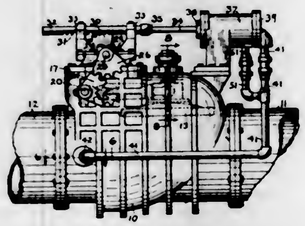




is running and operating whether the loom be connected to or disconnected from the motor by the shipper mechanism to produce subatmospheric pneumatic pressures, and means pneumatically connecting said mechanism to said thread holder.

---

**2,390,015**
**AUTOMATIC ANTISLAM CHECK VALVE**
**Nels J. Ulfsby and Adolph C. Jensen, Chicago, Ill.**
**Application May 24, 1943, Serial No. 488,284**
**7 Claims. (Cl. 137—153)**



1. A pipe and means for forcing water through the pipe, a valve in the pipe to swing on a pivot, a cylinder and a piston in the cylinder which is moved by water pressure, the piston having connection with said valve to positively move the same therewith, a pipe connecting the closed end of the cylinder with the intake port of the valve to permit free circulation of water between the two, a gravity valve in said pipe provided with a small opening to permit passage of water when the valve is in a closed position, whereby a larger quantity of water will pass upward through said pipe into the cylinder than will pass downward through said pipe out of the cylinder, a second pipe connecting the closed end of the cylinder with the intake port of the first named valve having its connection with the cylinder so arranged that it will be closed when the piston reaches a predetermined position in its movement, and a gravity check valve in said last named pipe arranged to permit water to flow out of said cylinder and prevent water flowing into said cylinder.

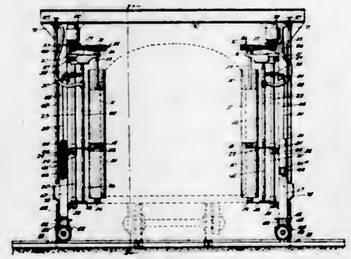
---

**2,390,016**
**CHARGE PREPARATION**
**Irwin D. Wagner, Luther D. Fetterolf, Robert K. Waring, and George T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application March 10, 1944, Serial No. 525,969**
**6 Claims. (Cl. 75—67)**

1. The improvement in briquetting a mixture of calcined dolomite and ferrosilicon for use in the production of magnesium, which comprises slacking the calcined dolomite with sufficient water to hydrate all of the hydratable oxides of calcium and magnesium in the calcined dolomite and to yield with the ferrosilicon a plastic mix of good briquetting consistency, briquetting the plastic mix, and heating the briquets to a temperature sufficiently high to remove the free water and to dehydrate the hydrates of calcium and magnesium but insufficient to objectionably oxidize the ferrosilicon.

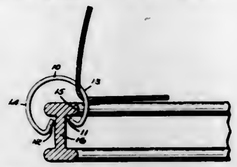
---

**2,390,017**
**PORTABLE CAR WASHING APPARATUS**
**Frank P. Walsh, St. Louis, Mo., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois**
**Application December 3, 1942, Serial No. 467,688**
**7 Claims. (Cl. 15—53)**



1. The combination with a pair of units for simultaneously washing the sides of a railway car traveling on a track, comprising vertically extending rotary brushes yieldingly supported for engaging the sides of the car and electric motors for driving said brushes, of a portable supporting structure for said units comprising side frames between which the car can travel, a rigid overhead connection between the side frames and under which the cars are adapted to pass, and carrying wheels adjacent the ends of the side frames whereby the structure can be wheeled across the track for operatively supporting the units for washing cars on different tracks, and means for releasably and positively locking the structure to the floor on which the track is laid and in operative positions for washing cars on the tracks.

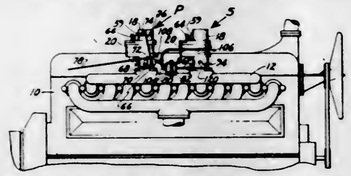
**2,390,018**
**TRAVELER**
**Philip C. Wentworth, Providence, R. I.**
**Application May 17, 1945, Serial No. 594,194**
**5 Claims. (Cl. 57—125)**



1. A traveler to operate on a horizontal ring without substantial tendency to swivel and ride the ring flange or to back-track on the outside web of the ring, said traveler comprising a bow, horns turned inwardly and radial upwardly at an angle to said bow, and curved portions connecting said bow and horns, the inner horn in the operation of the traveler thrusting in an upward and outward direction against the under surface of the inner ring flange at substantially its juncture with the ring web and thereby preventing the outer horn from contacting with the outside web of the ring.

---

**2,390,019**
**CARBURETOR**
**Albert H. Winkler and John H. Gore, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application March 20, 1941, Serial No. 384,274**
**20 Claims. (Cl. 261—23)**

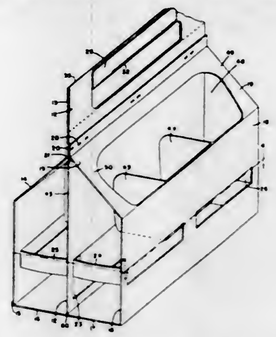


1. In a multiple stage carburetor system having a pair of induction passages, a venturi in each of said induction passages and a pair of throttle valves, one in each of said passages, manual means for controlling the throttle valve of one of said induction passages, and means connected with the other throttle valve and responsive to the resultant of pressure within the venturis for controlling the last mentioned throttle valve.

---

**2,390,020**
**BOTTLE CARRIER**
**Albert Wesselman, Cincinnati, Ohio**
**Application December 30, 1942, Serial No. 470,614**
**3 Claims. (Cl. 224—45)**

2. A carrier comprising a continuous sheet-material body member having transverse score lines for providing a base having a median score line, and upwardly converging side walls, a central partition member aligned with said median score line and having an opening formed therein at each of the opposed ends thereof, and strap members carried by said side walls and having connection with other similar straps for providing pairs of conjoined straps, each pair of such conjoined straps extending through one of the openings in the central partition, said straps providing abutments between the side walls and the partition, at the open ends of the carrier, the side walls having bottle receiving openings in their



upper portions to permit insertion of bottles, bottom ends foremost, into the spaces between the straps disposed at the open ends of the carrier.

---

**2,390,021**
**DECORATED HANDBAG**
**Charles Wolf, Trenton, N. J., assignor to Plasco, Inc., New York, N. Y., a corporation of New York**
**Application October 31, 1944, Serial No. 561,238**
**5 Claims. (Cl. 41—34)**



1. A decorative, flexible handbag material including a field of oblong, interfitted, box-like decorative elements molded of plastic material and each being fully open at the rear thereof, said elements having rearward extending projections substantially wholly therein, disposed inwardly of the side walls of the elements, and sheeting means interconnecting the elements at the rear thereof and cooperating therewith to produce a continuous, flexible, decorative handbag material, said flexible sheeting means being perforated to receive the projections and the latter being headed over thereon, the flexible sheeting means having sections consisting of relatively stiff material having outer edges disposed in relatively close proximity to the side walls of the individual elements and within the areas of the respective elements to cause the side walls of the elements to snugly bear at their free edges against the sheeting means.

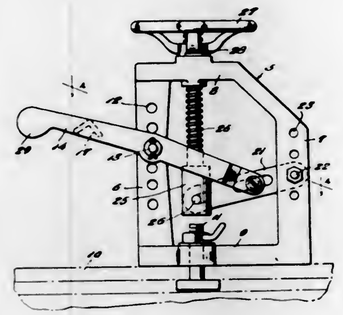
---

**2,390,022**
**HOLD-DOWN CLAMP**
**Sterling A. Wood, Smyrna, Ga.**
**Application July 15, 1944, Serial No. 545,153**
**2 Claims. (Cl. 90—59)**

1. A hold down clamp comprising a frame including front and rear posts, means for securing the frame to a supporting structure, a clamping lever, means for pivotally attaching the clamping lever at an intermediate portion thereof in vertically adjusted position to the front post, a link, means for pivotally attaching one end of the link in vertically adjusted position to the rear post, means for pivotally connecting the rear end



of the clamping lever to an intermediate portion of the link and a manually operable screw mount-



ed for vertical movement in the frame and pivotally attached to the other end of said link.

---

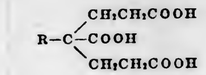
**2,390,023**
**TREATING INHERENTLY AGING CHROMIUM-NICKEL STAINLESS STEEL**
**Ernest H. Wyche, Niagara Falls, N. Y., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey**
**No Drawing. Application August 25, 1944, Serial No. 551,256**
**1 Claim. (Cl. 148—12)**

A method of enhancing the inherent aging characteristic of carbon-containing chromium-nickel stainless steel of the type containing at least one of the stronger-than-chromium carbide formers such as titanium, columbium, zirconium, etc., with its components, other than said carbide former, that are ferrite formers proportioned to those that are austenite formers to provide said steel with a structure that partly transforms at relatively low temperatures to stress-laden ferrite while retaining an appreciable amount of austenite, said method comprising cooling said steel to produce said ferrite, and cold straining the steel to an extent transforming an appreciable amount of said austenite to said ferrite.

---

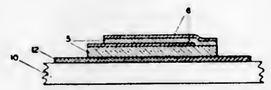
**2,390,024**
**CARBOXY-SUBSTITUTED PIMELIC ACIDS**
**Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Application September 22, 1942, Serial No. 459,301**
**6 Claims. (Cl. 260—537)**

1. As a new compound, a γ-carboxy-pimelic acid having the formula



wherein R is an aliphatic hydrocarbon group.

**2,390,025**
**PROCESS FOR THE MANUFACTURE OF ELECTRICAL CAPACITORS**
**Alden J. Deyrup, Westfield, and Kermit H. Ballard, Perth Amboy, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application October 4, 1943, Serial No. 504,883**
**4 Claims. (Cl. 29—25.42)**



4. The process of manufacturing an electrical capacitor of the type comprising a plurality of vitreous enamel dielectric layers separating fired silver electrode layers which comprises, building up on a temporary supporting base a plurality of layers of powdered vitreous enamel suspended in a suitable vehicle and a plurality of layers of silver powder suspended in a suitable vehicle, said vitreous enamel layers and said silver layers alternating, cutting through said unit whereby the end surfaces of said silver layers are exposed, painting conductive silver paste across the cut portions whereby said exposed silver layers are electrically connected, transferring the resulting structure to a second temporary supporting base, which supporting base is provided with a non-adhesion layer, said non-adhesion layer being interposed between said base and the lowermost layer of vitreous enamel dielectric, and firing the resulting structure to provide a unitary monolithic electrical capacitor of the type described.

---

**2,390,026**
**VALVE STEM**
**Oakley W. Hosking, Monroe, N. Y.**
**Application March 19, 1941, Serial No. 384,173**
**5 Claims. (Cl. 152—430)**



3. In a valve stem of the type described, a rigid tubular metal insert comprising a tip member having means in its bore for receiving and retaining therein a valve core, said tip member having an exterior groove therearound and a smooth cylindrical surface at its inner end; and a metal skirt having at its outer end a substantially smooth cylindrical surface telescopically engaging the cylindrical surface of the tip member and having a portion extending into said groove to cooperate with the walls thereof to secure the skirt to the tip, the skirt extending beyond the inner end of said tip member to form the major portion of the length of the insert.

2,390,027
**ESTER PRODUCTS OF 12-HYDROXYSTEARIC ACID**

Melvin J. Hunter, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 24, 1942, Serial No. 463,251
10 Claims. (Cl. 260—410.6)

1. An ester product containing a major proportion of a compound having the formula:

$$CH_3(CH_2)_5CHOH(CH_2)_{10}COO(C_nH_{2n}O)_mR$$

wherein $n$ is one of the integers 2 and 3, $m$ is an integer less than 3, and R represents a hydrocarbon radical containing from 1 to 10 carbon atoms inclusive and selected from the group consisting of alkyl, cycloalkyl, substituted cycloalkyl, aryl, and aralkyl radicals.

2,390,028
**PREPARATION OF ACRYLIC ESTERS**

Harry T. Neher and Stanton C. Kelton, Jr., Bristol, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 23, 1943, Serial No. 511,478
8 Claims. (Cl. 260—486)

1. A method for preparing an ester of acrylic acid from a diester of the formula

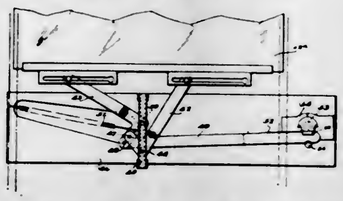
$$O(CH_2CH_2COOR')_2$$

wherein R' represents an acyclic group containing one to eighteen carbon atoms from the class consisting of alkyl, halogenated alkyl, and alkoxy alkyl groups, which comprises cleaving said diester and eliminating water therefrom by heating in the presence of an acid catalyst and an inhibitor for preventing the polymerizing of acrylates.

2,390,029
**REGULATOR MECHANISM**

John B. Parsons, Toledo, Ohio, assignor to Malcolm W. Fraser, Toledo, Ohio, as trustee

Original application January 30, 1943, Serial No. 474,108. Divided and this application September 6, 1943, Serial No. 501,393
4 Claims. (Cl. 268—126)

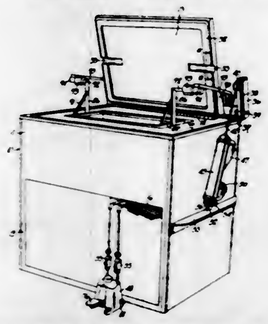


1. Regulator mechanism for a vehicle window comprising a pair of bell crank levers each having an inner angular end portion and an outer free end portion, the free end portions being adapted for engagement for window movement, a pivotal connection between the inner end of one lever and the other lever near the inner end of the latter, a rectilinearly movable bar pivoted at one end to the inner end of said other lever, an upright guide, a pivotal connection between the angle portion of said first bell crank lever and said guide, a stud on the angle portion of the other bell crank lever fitting said guide for sliding movement therein, a helical tension spring engaging one bell crank lever for counterbalancing purposes, and rack and pinion means for operating said bar.

2,390,030
**CHILLING CABINET**

Theodore R. Paulson, South Bend, Ind., assignor to Mid West Sales & Service, Inc., South Bend, Ind., a corporation of Indiana

Application January 12, 1942, Serial No. 426,387
8 Claims. (Cl. 312—174)

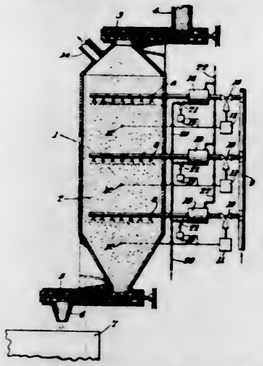


1. A chilling cabinet comprising a container having an opening in its top, a closure pivoted to said container to span said opening, a work holder in said container, an elongated arm pivoted to said container and to said work holder and a cam carried by said closure and engageable with said arm to elevate said arm and work holder when said closure is opened, said cam being spaced from said arm when said closure is closed.

2,390,031
**HYDROCARBON CONVERSION**

August Henry Schutte, Hastings on Hudson, and Vernon O. Bowles, Dobbs Ferry, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application December 14, 1943, Serial No. 514,192
3 Claims. (Cl. 196—55)



1. In a method of recovering usable thermal energy from heavy hydrocarbons, passing by gravity through a sealed chamber including a plurality of coking zones at predetermined speed, a preheated bed comprising particles of solid contact material, spreading on said moving bed in each coking zone a heated heavy hydrocarbon charge at predetermined spread density and at predetermined admission temperature, while independently controlling the temperatures of admission of said charge to said chamber and the spread density of said charge in each of said coking zones to compensate for temperature drop in said bed in its passage through said zones, whereby to form on said bed particles in each coking zone coatings of dry non-adhesive coke capable of combustion for generating thermal energy upon use of said coated bed particles as fuel.



2,390,032
**TREATMENT OF CELLULOSIC FIBERS**

James W. Stallings, Haddon Heights, N. J., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application December 11, 1942, Serial No. 468,661
10 Claims. (Cl. 8—116.2)

1. A process for increasing the luster and water-receptivity of cellulosic yarns and fabrics which comprises treating the material in separate operations with acrylonitrile and a 2% to 30% aqueous solution of a strong hydroxide, washing the treated material until substantially free of the hydroxide, and drying the material.

2,390,033
**FABRIC FIRE HOSE**

James W. Stallings, Haddon Heights, N. J., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application December 11, 1942, Serial No. 468,662
4 Claims. (Cl. 8—116.2)

1. The process of reducing the porosity of cellulosic fabric hose which comprises treating the hose in separate operations with acrylonitrile and a solution of a strong hydroxide, and thereafter removing the strong hydroxide.

2,390,034
**STUD SETTING DEVICE**

John Vincent Walker, Fairview, Pa., assignor to Titan Tool Company, Fairview, Pa., a corporation of Pennsylvania

Application December 22, 1941, Serial No. 423,983
4 Claims. (Cl. 81—112)



4. In a stud setting device, the combination of clamping jaws, a mounting for the jaws comprising relatively axially movable members, one carrying the jaws and the other having closing surfaces acting on the jaws, means moving the sleeves to open and close the jaws, the closing movement clamping the jaws in driving engagement with the inserted stud, and a pair of oppositely placed levers actuating the means, said levers swinging on axes at right angles to a plane through the axis of the mounting, said levers when in set position extending in crosswise directions from the axis of the mounting and forming oppositely disposed levers for rotating the stud setting device, said levers swinging to a position approximating an axial direction and adjacent to the axis of the mounting with the opening of the stud setting device.

2,390,035
**METHOD OF TREATING POLYMERIC VINYLIDENE CHLORIDE**

Ralph M. Wiley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 15, 1942 Serial No. 462,143
7 Claims. (Cl. 18—48)

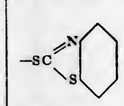
1. The method of treating a material selected from the class consisting of the normally crystalline polymer, copolymers and interpolymers of vinylidene chloride, which comprises fusing the material at a temperature below the decomposition point, supercooling the fused material, maintaining the supercooled material at a temperature below about 20° C. through a substantial portion of the crystallization induction period but for a period insufficient to effect substantial crystallization thereof while restricting any mechanical deformation of the supercooled material to within the elastic limit, and then heating the so-conditioned material to a temperature above 50° C. but substantially below the fusion point until crystallization is effected, thereby to form a cold-workable crystalline product which is substantially haze-free.

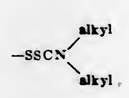
2,390,036
**VULCANIZATION WITH DIARYL GUANIDINE ADDITION PRODUCTS**

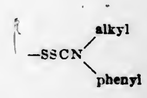
Arnold R. Davis, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 7, 1944, Serial No. 548,498
16 Claims. (Cl. 260—789)

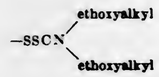
1. As a new composition, a product obtained by milling together an unvulcanized vulcanizable rubber and an accelerator represented by the Formula $A_xZn(B)_2$ in which A represents a diaryl guanidine, $x$ represents the integers one and two and B represents a member of the group consisting of the







and



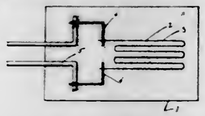
radicals.

**2,390,037**
**TRANSDITHIOCYANOETHYLENE AS A FUNGICIDE**
**Kenneth G. Nolan, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application December 29, 1942, Serial No. 470,495**
**2 Claims. (Cl. 167—38)**

1. A method of controlling organisms carried by seeds which includes applying thereto a toxic quantity of 1,2-dithiocyanoethylene.

---

**2,390,038**
**TEMPERATURE COMPENSATED GAUGE**
**Arthur C. Ruge, Cambridge, Mass., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania**
**Application September 12, 1944, Serial No. 553,784**
**8 Claims. (Cl. 201—63)**



1. A strain gauge comprising, in combination, a filament of material whose electrical resistance varies in accordance with its strain adapted to be bonded throughout its length to a member subject to strain, a pair of combined lead and temperature compensating wires electrically connected to the respective ends of said filament and adapted to be subject to substantially the same temperature as said filament, said wires being of a material and of such length that their temperature coefficient and resistance will compensate for temperature changes of the filament, and a second pair of leads electrically connected to said temperature compensating wires and forming an external connection for the strain gauge, said combined lead and temperature compensating wires having a cross-sectional area that is larger than the filament but smaller than said second pair of leads thereby substantially to prevent transmission of mechanical forces from said second pair of leads to the filament in the event of any movement of said second pair of leads.

---

**2,390,039**
**INSULATED ELECTRICAL CONDUCTOR**
**Games Slayter and Allen L. Simison, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware**
**Original application October 16, 1937, Serial No. 169,500. Divided and this application November 13, 1941, Serial No. 418,929**
**3 Claims. (Cl. 174—121)**



1. An article of manufacture comprising a wire and a covering therefor, said covering comprising an inner layer of unwoven substantially alkaline-free glass fibers of the staple type adjacent the wire and an outer layer of substantially alkaline-free glass fibers of the continuous type, the layer of unwoven glass fibers forming a resilient backing for the outer layer, and a coating of insulating varnish on the outer layer of glass fibers, the insulating varnish impregnating the inner and outer layers of glass fibers of different types.

# DESIGNS

NOVEMBER 27, 1945

**142,977**
**DESIGN FOR A SPATTER PROOF BROWNING LID**
**Harvey G. Archer, Jr., Boonton, N. J.**
**Application March 19, 1945, Serial No. 118,592**
**Term of patent 14 years**
**(Cl. D44—15)**



The ornamental design for a spatter proof browning lid, as shown.

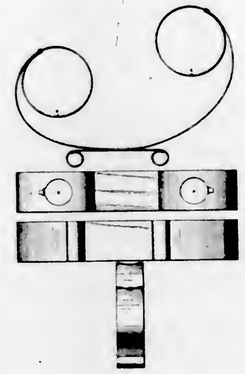
---

**142,978**
**DESIGN FOR A COMBINATION KNIFE**
**Ralph G. Bastien, Minneapolis, Minn.**
**Application December 30, 1944, Serial No. 117,188**
**Term of patent 14 years**
**(Cl. D22—3)**



The ornamental design for a combination knife, as shown.

**142,979**
**DESIGN FOR A CANDLE HOLDER**
**Carl D. Beltz, Latrobe, Pa.**
**Application July 5, 1945, Serial No. 120,538**
**Term of patent 7 years**
**(Cl. D48—2)**



The ornamental design for a candle holder, as shown.

---

**142,980**
**DESIGN FOR A NIPPLE FOR NURSING BOTTLES**
**Brij Orath Theodore Bery, London, England**
**Application November 28, 1944, Serial No. 116,596**
**In Great Britain June 5, 1944**
**Term of patent 7 years**
**(Cl. D83—1)**



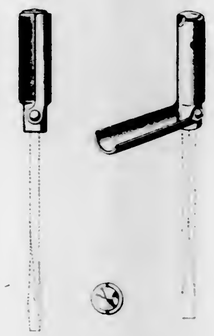
The ornamental design for a nipple for nursing bottles, substantially as shown.

142,981
**DESIGN FOR A PENDANT**
Wellington E. Blackburn, Albuquerque, N. Mex.
Application May 29, 1945, Serial No. 119,793
(Cl. D45—15)
Term of patent 7 years



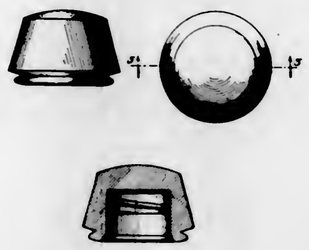
The ornamental design for a pendant, as shown.

142,982
**DESIGN FOR A LEVER TYPE SCREW DRIVER**
Samuel Bloomfield, Wichita, Kans., assignor to C. Earl Hovey, Kansas City, Mo., as trustee
Application June 25, 1945, Serial No. 120,330
Term of patent 14 years
(Cl. D54—13)



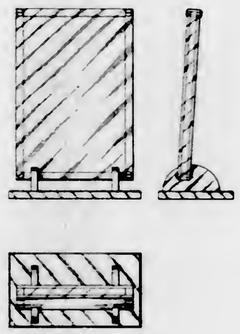
The ornamental design for a lever type screw driver, as shown.

142,983
**DESIGN FOR A BOTTLE CAP**
Daniel R. Branen, New York, N. Y., assignor to Mark Cross Company, New York, N. Y., a corporation of New York
Application July 25, 1945, Serial No. 120,959
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a bottle cap, substantially as shown.

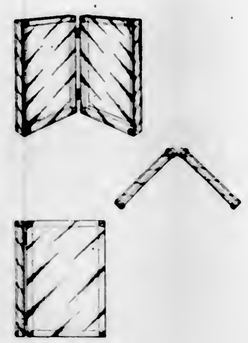
142,984
**DESIGN FOR A DISPLAY FRAME**
John W. Brown, Los Angeles, Calif.
Application April 2, 1945, Serial No. 118,826
Term of patent 3½ years
(Cl. D29—20)



The ornamental design for a display frame, as shown.

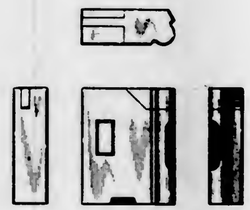


142,985
**DESIGN FOR A DISPLAY FRAME**
John W. Brown, Los Angeles, Calif.
Application April 2, 1945, Serial No. 118,827
Term of patent 3½ years
(Cl. D29—20)



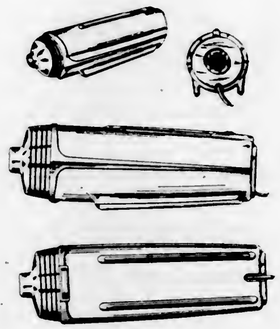
The ornamental design for a display frame, as shown.

142,986
**DESIGN FOR A POCKET LIGHTER**
Albert J. Bruneau and Morris Goldsmith, Montreal, Quebec, Canada, assignors to Andersmith Company, Montreal, Quebec, Canada, a partnership
Application June 30, 1945, Serial No. 120,450
Term of patent 14 years
(Cl. D48—27)



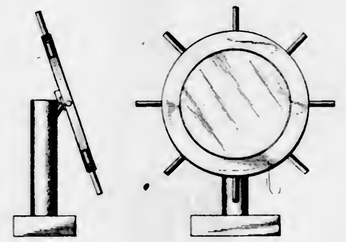
The ornamental design for a pocket lighter, as shown.

142,987
**DESIGN FOR A VACUUM CLEANER TANK OR THE LIKE**
David Chapman, Chicago, Ill., assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio, a corporation of Ohio
Application February 17, 1945, Serial No. 118,009
Term of patent 14 years
(Cl. D9—2)



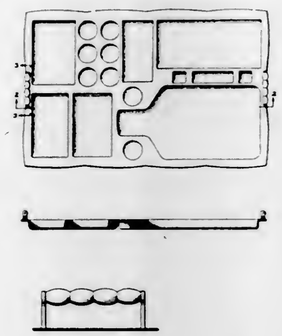
The ornamental design for a vacuum cleaner tank or the like, substantially as shown.

142,988
**DESIGN FOR A PICTURE FRAME**
Frank Coveleski, Newark, N. J.
Application June 5, 1945, Serial No. 119,916
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

142,989
**DESIGN FOR A TRAY**
Arthur V. Curry, San Francisco, Calif.
Application July 17, 1945, Serial No. 120,762
Term of patent 3½ years
(Cl. D44—10)



The ornamental design for a tray, as shown.

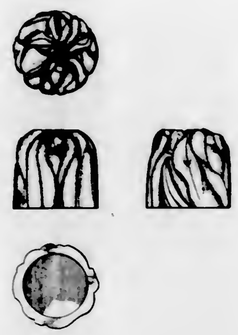
---

142,990
**DESIGN FOR A CONTAINER CAP**
Philip A. Derham, Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application July 26, 1945, Serial No. 120,974
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a container cap, substantially as shown.

142,991
**DESIGN FOR A CONTAINER CAP**
Philip A. Derham, Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application July 26, 1945, Serial No. 120,975
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a container cap, substantially as shown.

---

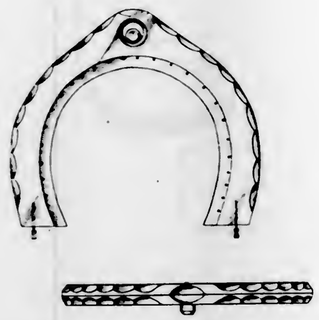
142,992
**DESIGN FOR A SPRAY HEAD OR THE LIKE**
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application July 30, 1945, Serial No. 121,085
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a spray head or the like, substantially as shown.



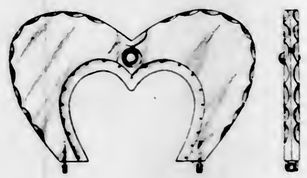
142,993
**DESIGN FOR A HANDBAG FRAME OR SIMILAR ARTICLE**
Ralph C. Ewing, New York, N. Y.
Application September 1, 1945, Serial No. 121,782
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag frame or similar article, substantially as shown and described.

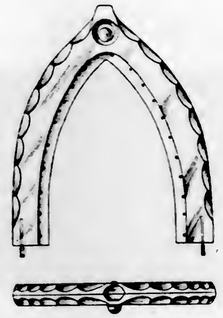
---

142,994
**DESIGN FOR A HANDBAG FRAME OR SIMILAR ARTICLE**
Ralph C. Ewing, New York, N. Y.
Application September 1, 1945, Serial No. 121,783
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag frame or similar article, substantially as shown and described.

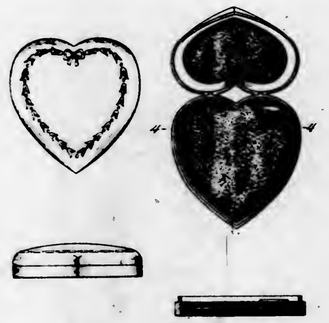
142,995
**DESIGN FOR A HANDBAG FRAME OR SIMILAR ARTICLE**
Ralph C. Ewing, New York, N. Y.
Application September 1, 1945, Serial No. 121,784
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag frame or similar article, substantially as shown and described.

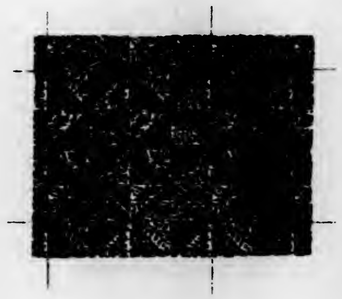
---

142,996
**DESIGN FOR A BOX FOR CHILDREN'S JEWELRY**
Mack M. Forman, Providence, R. I., assignor to Marathon Company, a corporation of Massachusetts
Application June 26, 1945, Serial No. 120,348
Term of patent 14 years
(Cl. D80—5)



The ornamental design for a box for children's jewelry, substantially as shown.

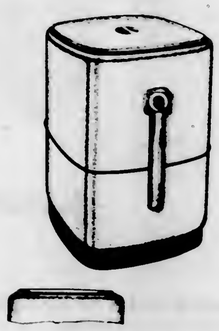
142,997
**DESIGN FOR A TEXTILE FABRIC**
Daniel B. Faller, New York, N. Y.
Application August 1, 1945, Serial No. 121,148
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown and described.

---

142,998
**DESIGN FOR A WASHING MACHINE**
Andrew H. Gerhardt, Skokie, and Arthur P. Schulz, Hinsdale, Ill., assignors to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application February 5, 1945, Serial No. 117,775
Term of patent 14 years
(Cl. D49—1)



142,998—Continued



The ornamental design for a washing machine, substantially as shown.

---

142,999
**DESIGN FOR A PERFUME BOTTLE**
Henry Gilbert, North Hollywood, Calif., assignor to Mission Hosiery Mills, Los Angeles, Calif., a corporation of California
Application May 22, 1945, Serial No. 119,673
Term of patent 7 years
(Cl. D58—9)



The ornamental design for a perfume bottle, as shown.



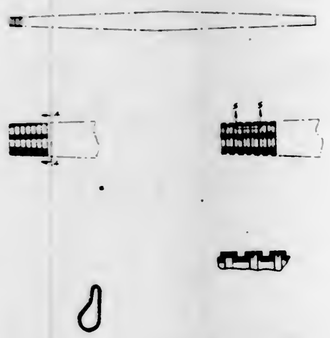
143,000
**DESIGN FOR A DRESS**
Zelma Golden, New York, N. Y.
Application August 27, 1945, Serial No. 121,643
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

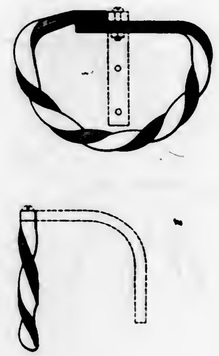
---

143,001
**DESIGN FOR A FLEXIBLE BAND FOR A BRACELET OR SIMILAR ARTICLE**
Victor Guglielmi, Leonia, N. J.
Application July 7, 1945, Serial No. 120,561
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a flexible band for a bracelet or similar article, as shown.

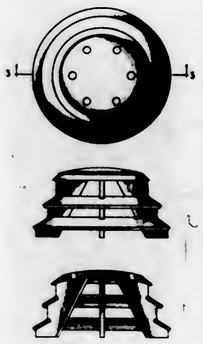
143,002
**DESIGN FOR A DRAPE FESTOON**
Paul L. Hartnett, Leominster, Mass.
Application July 14, 1945, Serial No. 120,697
Term of patent 3½ years
(Cl. D21—1)



The ornamental design for a drape festoon, as shown and described.

---

143,003
**DESIGN FOR A GRATE**
Albert Holland, Lansing, Mich.
Application February 7, 1945, Serial No. 117,793
Term of patent 14 years
(Cl. D81—18)



The ornamental design for a grate, as shown.

143,004
**DESIGN FOR A TABLE**
Edgar H. Hunter, Cambridge, Mass.
Application May 29, 1945, Serial No. 119,787
Term of patent 3½ years
(Cl. D33—14)



The ornamental design for a table, substantially as shown.

143,005
**DESIGN FOR A CHAIR**
Edgar H. Hunter, Cambridge, Mass.
Application May 29, 1945, Serial No. 119,788
Term of patent 3½ years
(Cl. D15—1)



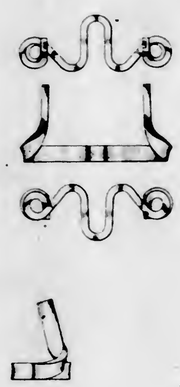
The ornamental design for a chair, substantially as shown.

143,006
**DESIGN FOR A LIGHTER**
Walter E. Keene, Baltimore, Md.
Application February 24, 1945, Serial No. 118,121
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a lighter, substantially as shown.

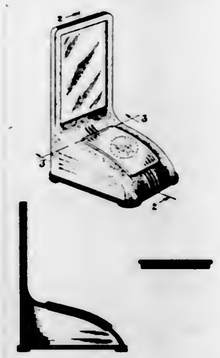
143,007
**DESIGN FOR A PICTURE FRAME OR THE LIKE**
Edmund D. Kissling, New York, N. Y.
Application June 1, 1945, Serial No. 119,840
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame or the like, as shown.

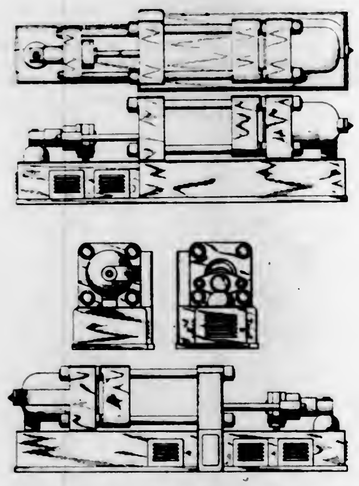


143,008
**DESIGN FOR A COMBINATION PHOTO MOUNT AND COMPARTMENT OR ARTICLE OF SIMILAR NATURE**
William W. Layton, Columbus, Ohio
Application July 18, 1945, Serial No. 120,789
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a combination photo mount and compartment or article of similar nature, substantially as shown.

143,009
**DESIGN FOR A CASTING MACHINE**
Robert J. Lindsey, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio, a corporation of Delaware
Application September 4, 1944, Serial No. 115,187
Term of patent 7 years
(Cl. D55—1)



The ornamental design for a casting machine, substantially as shown.

143,010
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,546
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

143,011
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,547
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

143,012
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,549
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

---

143,013
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,550
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

143,014
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,551
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

---

143,015
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,552
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.



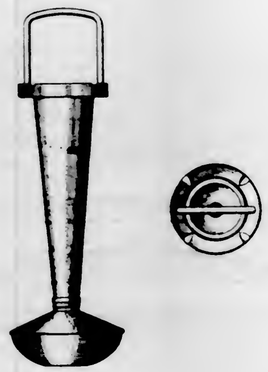
143,016
**DESIGN FOR A BEDSPREAD OR THE LIKE**
John J. Maibach, New York, N. Y., assignor to J. W. Valentine Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 118,553
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread or the like, substantially as shown.

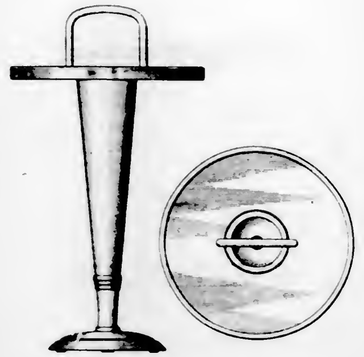
---

143,017
**DESIGN FOR A SMOKING STAND**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,565
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a smoking stand, substantially as shown.

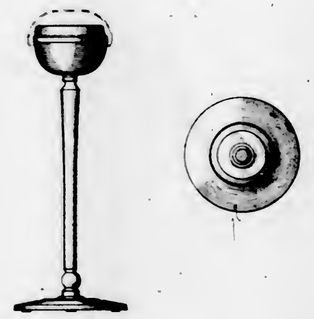
143,018
**DESIGN FOR A COMBINED SMOKING STAND AND SERVING TRAY**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,566
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a combined smoking stand and serving tray, substantially as shown.

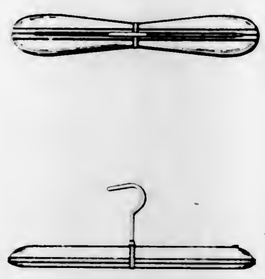
---

143,019
**DESIGN FOR A SMOKER'S STAND**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,569
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a smoker's stand, substantially as shown.

143,020
**DESIGN FOR A COMBINED COAT HANGER AND JEWEL CONTAINER**
Winnifred Melford, Los Angeles, Calif.
Application July 13, 1945, Serial No. 120,687
Term of patent 7 years
(Cl. D80—8)



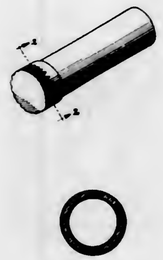
The ornamental design for a combined coat hanger and jewel container, substantially as shown.

143,021
**DESIGN FOR A CIGARETTE REST AND EXTINGUISHER**
James T. Murphy, Boston, Mass.
Application February 21, 1945, Serial No. 118,070
Term of patent 7 years
(Cl. D85—2)



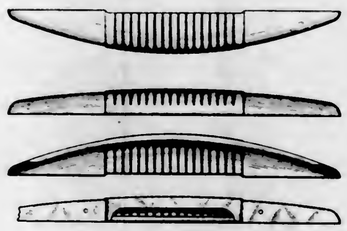
The ornamental design for a cigarette rest and extinguisher, as shown.

143,022
**DESIGN FOR A LIPSTICK HOLDER OR THE LIKE**
Emile Norman, El Monte, Calif., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application January 29, 1945, Serial No. 117,647
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a lipstick holder or the like, as shown.

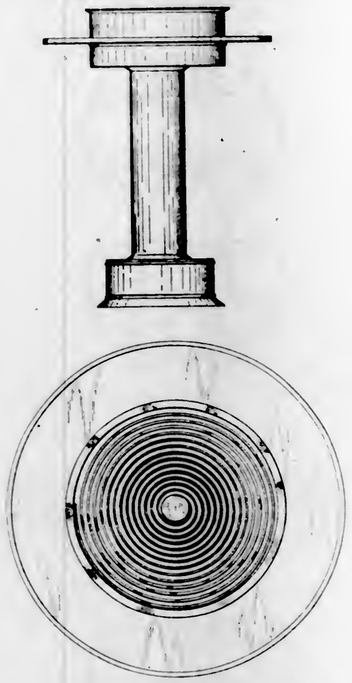
143,023
**DESIGN FOR AN OVEN DOOR HANDLE**
Edwin W. North, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware
Application June 18, 1945, Serial No. 120,173
Term of patent 7 years
(Cl. D81—25)



The ornamental design for an oven door handle, substantially as shown.

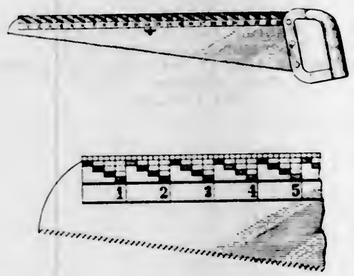


143,024
**DESIGN FOR A SMOKER STAND**
Maurice E. Olin, Vancouver, Wash.
Application June 13, 1945, Serial No. 120,053
Term of patent 14 years
(Cl. D85—2)



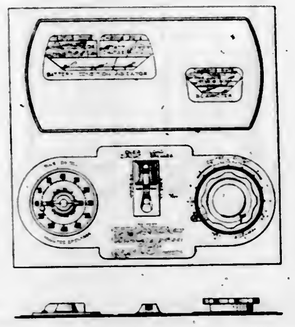
The ornamental design for a smoker stand, as shown.

143,025
**DESIGN FOR A COMBINED SAW AND RULE**
Vincent R. Pileggi, Philadelphia, Pa.
Application June 1, 1945, Serial No. 119,838
Term of patent 14 years
(Cl. D93—3)




The ornamental design for a combined saw and rule, substantially as shown.

143,026
**DESIGN FOR A CONTROL AND INSTRUMENT PANEL FOR BATTERY CHARGERS OR SIMILAR ARTICLE**
Merlin L. Pugh, Minneapolis, Minn.
Application April 10, 1945, Serial No. 118,944
Term of patent 7 years
(Cl. D26—1)

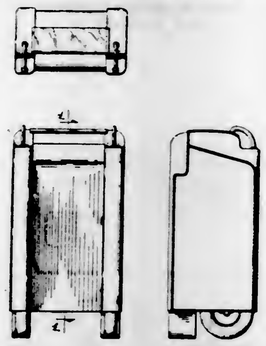


The ornamental design for a control and instrument panel for battery chargers or similar article, substantially as shown and described.

143,027
**DESIGN FOR A BATTERY CHARGER OR SIMILAR ARTICLE**
Merlin L. Pugh, Minneapolis, Minn.
Application June 22, 1945, Serial No. 120,269
Term of patent 7 years
(Cl. D26—5)



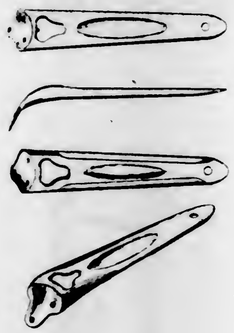
143,027—Continued



The ornamental design for a battery charger or similar article, substantially as shown and described.

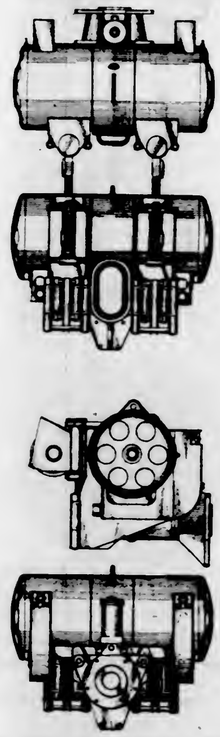
---

143,028
**DESIGN FOR A HANDLE FOR POTS AND PANS**
Richard S. Reynolds, Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application July 12, 1945, Serial No. 120,682
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a handle for pots and pans, as shown.

143,029
**DESIGN FOR A HOIST CONTROL UNIT**
Harvey W. Rockwell, Cedar Rapids, Iowa, assignor to Lapiant-Choate Manufacturing Co. Inc., Cedar Rapids, Iowa, a corporation of Iowa
Application January 20, 1945, Serial No. 117,519
Term of patent 7 years
(Cl. D41—1)



The ornamental design for a hoist control unit, substantially as shown.

---

143,030
**DESIGN FOR A PENDANT**
John Rubel, New York, N. Y.
Application April 17, 1945, Serial No. 119,051
Term of patent 7 years
(Cl. D45—15)



The ornamental design for a pendant, substantially as shown.



143,031
**DESIGN FOR A PENDANT**
John Rubel, New York, N. Y.
Application April 20, 1945, Serial No. 119,206
Term of patent 7 years
(Cl. D45—15)



The ornamental design for a pendant, substantially as shown.

---

143,032
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,243
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,033
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,244
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,034
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,245
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,035
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,246
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,036
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,247
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,037
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,248
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

143,038
**DESIGN FOR A GARDEN MARKER**
Albert Rubenstein, Washington, D. C.
Application June 22, 1945, Serial No. 120,249
Term of patent 14 years
(Cl. D35—1)



The ornamental design for a garden marker, as shown and described.

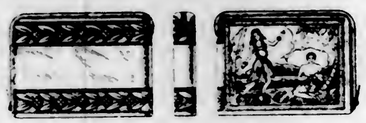


143,039
**DESIGN FOR A DOORSTOP**
Joseph D. Shanfield, Leaside, Ontario, Canada
Application July 11, 1945, Serial No. 121,088
In Canada July 10, 1945
Term of patent 7 years
(Cl. D10—7)



The ornamental design for a doorstop, as shown.

143,040
**DESIGN FOR A BILLFOLD**
Louis Seamon, Brooklyn, N. Y.
Application August 1, 1945, Serial No. 121,151
Term of patent 3½ years
(Cl. D87—3)



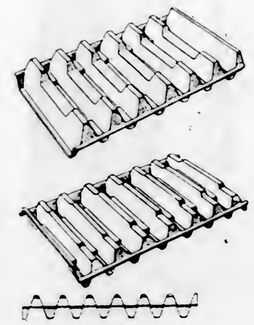
The ornamental design for a billfold, as shown.

143,041
**DESIGN FOR A BILLFOLD**
Louis Seamon, Brooklyn, N. Y.
Application August 1, 1945, Serial No. 121,152
Term of patent 3½ years
(Cl. D87—3)



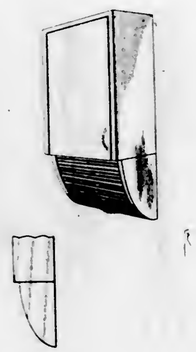
The ornamental design for a billfold, as shown.

143,042
**DESIGN FOR A PACKING SHEET FOR FRAGILE ARTICLES**
Ernest L. Shepard, Fairfield, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association
Application May 17, 1945, Serial No. 119,590
Term of patent 14 years
(Cl. D58—16)



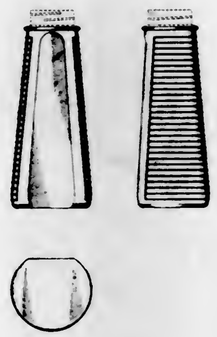
The ornamental design for a packing sheet for fragile articles, as shown.

143,043
**DESIGN FOR A WALL CABINET**
Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application December 1, 1944, Serial No. 116,642
Term of patent 7 years
(Cl. D33—19)



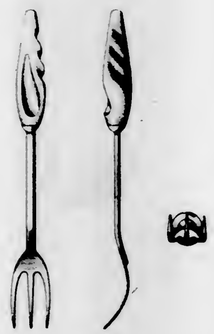
The ornamental design for a wall cabinet, substantially as shown and described.

143,044
**DESIGN FOR A BOTTLE OR SIMILAR ARTICLE**
James S. Steelman, Millville, N. J.
Application June 13, 1945, Serial No. 120,050
Term of patent 14 years
(Cl. D58—8)



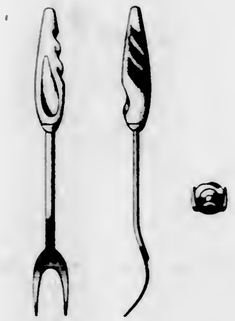
The ornamental design for a bottle or similar article, substantially as shown and described.

143,045
**DESIGN FOR A KITCHEN FORK**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application June 4, 1945, Serial No. 119,891
Term of patent 14 years
(Cl. D44—29)



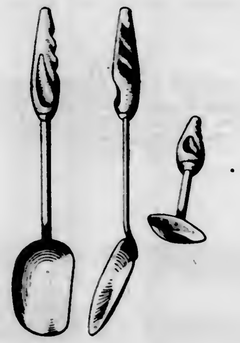
The ornamental design for a kitchen fork, substantially as shown.

143,046
**DESIGN FOR A SERVING FORK**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application June 4, 1945, Serial No. 119,892
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a serving fork, substantially as shown.

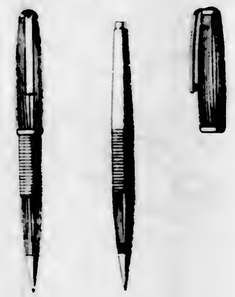
143,047
**DESIGN FOR A SKIMMING SPOON**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application June 4, 1945, Serial No. 119,893
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a skimming spoon, substantially as shown.

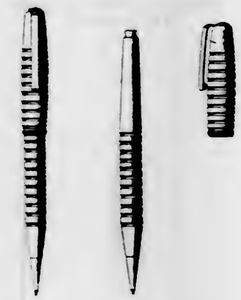


143,048
**DESIGN FOR A MECHANICAL PENCIL**
Maurice J. Waldinger, Flushing, N. Y.
Application August 1, 1945, Serial No. 121,132
Term of patent 14 years
(Cl. D74—24)



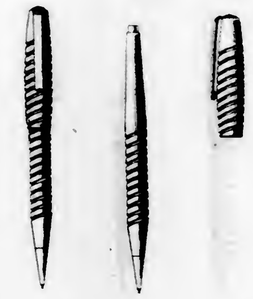
The ornamental design for a mechanical pencil, as shown.

143,049
**DESIGN FOR A MECHANICAL PENCIL**
Maurice J. Waldinger, Flushing, N. Y.
Application August 1, 1945, Serial No. 121,133
Term of patent 14 years
(Cl. D74—24)



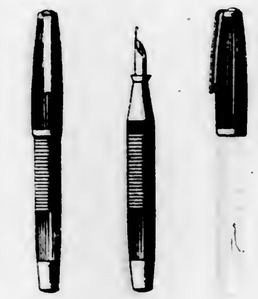
The ornamental design for a mechanical pencil, as shown.

143,050
**DESIGN FOR A MECHANICAL PENCIL**
Maurice J. Waldinger, Flushing, N. Y.
Application August 1, 1945, Serial No. 121,134
Term of patent 14 years
(Cl. D74—24)



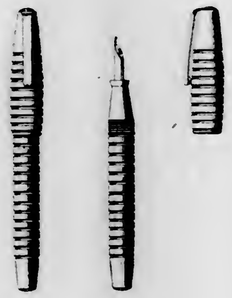
The ornamental design for a mechanical pencil, as shown.

143,051
**DESIGN FOR A FOUNTAIN PEN**
Maurice J. Waldinger, Flushing, N. Y.
Application August 1, 1945, Serial No. 121,136
Term of patent 14 years
(Cl. D74—17)



The ornamental design for a fountain pen, as shown.

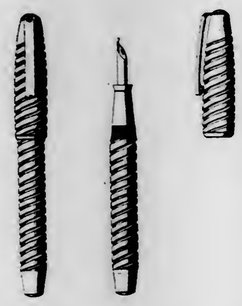
**143,052**
**DESIGN FOR A FOUNTAIN PEN**
**Maurice J. Waldinger, Flushing, N. Y.**
**Application August 1, 1945, Serial No. 121,137**
**Term of patent 14 years**
**(Cl. D74—17)**



The ornamental design for a fountain pen, as shown.

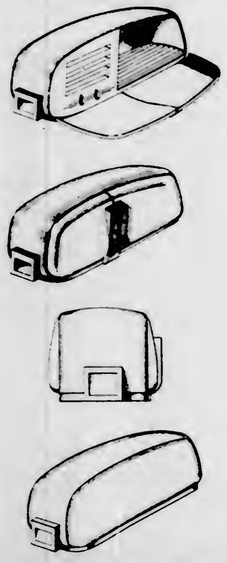
---

**143,053**
**DESIGN FOR A FOUNTAIN PEN**
**Maurice J. Waldinger, Flushing, N. Y.**
**Application August 1, 1945, Serial No. 121,138**
**Term of patent 14 years**
**(Cl. D74—17)**



The ornamental design for a fountain pen, as shown.

**143,054**
**DESIGN FOR A TOASTER OR SIMILAR ARTICLE**
**George W. Walker, Pleasant Ridge, and Kenneth A. Hopkins, Pontiac, Mich.**
**Application September 1, 1945, Serial No. 121,790**
**Term of patent 14 years**
**(Cl. D81—10)**



The ornamental design for a toaster or similar article, as shown and described.

---

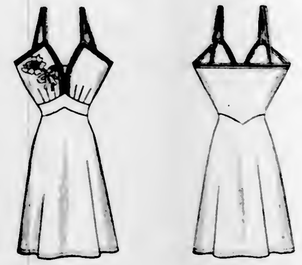
**143,055**
**DESIGN FOR A FLUTED CIGAR AND CIGARETTE LIGHTER OR SIMILAR ARTICLE**
**Alexander S. Weston, New York, N. Y.**
**Application April 2, 1945, Serial No. 118,814**
**Term of patent 14 years**
**(Cl. D48—27)**



The ornamental design for a fluted cigar and cigarette lighter or similar article, as shown and described.



**143,056**
**DESIGN FOR A SLIP**
**Semon Wolf, New York, N. Y.**
**Application July 26, 1945, Serial No. 120,983**
**Term of patent 14 years**
**(Cl. D3—26)**



The ornamental design for a slip, substantially as shown.

**143,057**
**DESIGN FOR A BOTTLE**
**Henry Worth and Michael D. Goldsmith, New York, N. Y.**
**Application July 10, 1945, Serial No. 120,613**
**Term of patent 14 years**
**(Cl. D58—6)**



The ornamental design for a bottle, substantially as shown and described.

# OFFICIAL GAZETTE

OF THE

# UNITED STATES PATENT OFFICE

---

VOLUME 581

DECEMBER

1945

---

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1946

# CONTENTS


| | Page |
|---|---|
| DECISIONS OF THE COMMISSIONER OF PATENTS, December 4, 11, 18, 25 | 3, 167, 347, 511 |
| TRADE-MARKS PUBLISHED AND REGISTERED, December 4, 11, 18, 25 | 17, 181, 369, 527 |
| REISSUES, December 4, 11, 18, 25 | 41, 207, —, 541 |
| PLANT PATENTS, December 4, 11, 18, 25 | —, 207, —, 541 |
| PATENTS, December 4, 11, 18, 25 | 42, 208, 393, 542 |
| DESIGNS, December 4, 11, 18, 25 | 152, 328, 490, 656 |


# ANNOUNCEMENTS


| | Page |
|---|---|
| ADVERSE DECISIONS IN INTERFERENCE | 1 |
| APPLICATIONS—Condition of pending | 2, 166, 346, 510 |
| APPLICATIONS ORIGINATING IN ITALY—Prosecution in U. S. Patent Office | 1 |
| BULLETIN OF DECISIONS ON TRADE-MARKS | 520 |
| CLASSIFICATION OF INVENTION—Changes in—*Order No. 4001* | 359 |
| DISCLAIMERS: | |
| Freydberg, Inc., G., H. & E. | 165 |
| Michael, Oscar S. | 515 |
| Ridings, Garvice H., et al. | 165 |
| Schuh, Arthur E. | 165 |
| Simpson, Waldo P., et al. | 515 |
| DRAWINGS—List of office fees for corrections in | 1, 176, 345 |
| INTERFERENCE NOTICE—Blue-Belle Dress Co. | 176, 345, 509 |
| MANUSCRIPT COPIES—Instructions re ordering | 1 |
| PATENT SUITS | 13, 515 |
| PATENTS—List of adjudicated | 176, 345, 509 |
| REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE | 14, 176, 366, 516 |
| International Harvester Company offers licenses under patents | 16, 180, 368, 519 |
| RESERVATION CLAUSE NOT PERMITTED—*Rule 44* | 1 |
| TRADE-MARK REGISTRATIONS CANCELED | 176 |
| Notice of cancellation | 176, 345, 509 |
| TRADE-NAMES—Notice of Tentative Recordation of—*T. D. 51348* | 165 |


# TABLE OF CASES REPORTED


| | Page |
|---|---|
| * Baker, The B. R., Company *v.* Lebow Brothers | 3 |
| * Banovic, In re | 13 |
| * Cornell et al., In re | 512 |
| * Draeger et al., In re | 7 |
| * Irmscher, In re | 357 |
| * Lincoln et al., In re | 6 |
| * Lippold, In re | 347 |
| * Lynes *v.* Lehnhard | 351 |
| * McKesson & Robbins, Inc., *v.* American Foundation for Dental Science | 174 |
| * Merkle, In re | 349 |
| * Normann et al., In re | 511 |
| * Physicians & Hospitals Supply Co., The, d. b. a. Ulmer Pharmacal Company *v.* Bayer-Semesan Company, Inc., now by change of name, Du Pont Semesan Company, Inc. | 10 |
| * Revere Paint Company *v.* 20th Century Chemical Company | 167 |
| * Snap-On Tools Corporation *v.* The Black & Decker Manufacturing Co. | 171 |
| * Smith, In re | 514 |
| * Starr, In re | 174 |
| * Ward, In re | 355 |


[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*).]

Patents Nos. 2,390,040 to 2,390,487

# THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 581—No. 1 TUESDAY, DECEMBER 4, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $13.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

## CONTENTS

| | Page |
|---|---|
| Issue of December 4, 1945 | 1 |
| Notices | 1 |
| Adverse Decisions in Interference | 1 |
| Important Information | 1 |
| Reservation Clauses Not Permitted | 1 |
| Applications Under Examination | 2 |
| Decisions of the U. S. Courts— | |
| The B. R. Baker Company v. Lebow Brothers | 3 |
| In re Bert H. Lincoln and Alfred Henriksen, Deceased, by John W. Wolfe, Administrator de Bonis Non | 6 |
| In re Draeger et al | 7 |
| The Physicians & Hospitals Supply Co., Inc., d. b. a. Ulmer Pharmacal Company v. Bayer-Semesan Company, Inc., now by change of name, Du Pont Semesan Company, Inc | 10 |
| In re Banovic | 13 |
| Patent Suits | 13 |
| Register of Patents Available for Licensing or Sale | 14 |
| Notice | 16 |
| Trade-Marks Published (95 Applications) | 17 |
| Trade-Mark Registrations Granted | 29 |
| Trade-Mark Registrations Renewed | 37 |
| Reissues | 41 |
| Patents Granted | 42 |
| Designs | 152 |

## December 4, 1945

| | | | |
|---|---|---|---|
| Trade-Marks | 109—No. | 418,080 to No. | 418,188, inclusive. |
| T. M. Renewals | 98 | | |
| Reissues | 3—No. | 22,700 to No. | 22,702, inclusive. |
| Patents | 448—No. | 2,390,040 to No. | 2,390,487, inclusive. |
| Designs | 48—No. | 143,058 to No. | 143,105, inclusive. |
| Total | 706 | | |

## Notices

The Alien Property Custodian has issued new regulations which make it possible, under certain conditions, to file and prosecute in the United States Patent Office, applications for patents originating in Italy. Regulations have also been issued making it unnecessary to report applications received from Italy to the Custodian.

Copies of the relevant orders, Regulation No. 7 under APC General Order No. 11 and Regulation No. 1 under APC General Order No. 12, may be obtained from the Custodian's offices in Washington or New York.

---

U. S. Patent Office, *Washington 25, D. C., Oct. 29, 1945.*

Effective October 18, the Office fees for correction and preparation of drawings shall be as follows.

For new drawings and corrections:

| | |
|---|---|
| Minimum charges for correction | $1.00 |
| For corrections on time basis, per hour | 3.00 |
| Minimum charge per sheet for new patent and design drawings | 15.00 |
| Minimum charge for new trade-mark drawings | 5.00 |

CASPER W. OOMS,
*Commissioner.*

## Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,351,451, T. Obszarny, Preselector, decided Nov. 7, 1945, claims 1, 11, 12, 13, and 14.

Pat. 2,350,639, N. D. Preston, Coded track circuit signaling system, decided Nov. 2, 1945, claim 22.

---

## Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings, as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

---

## Reservation Clauses Not Permitted

Rule 44. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

## Condition of Applications Under Examination at Close of Business November 16, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 78,604; Trade-Mark Division, 3,256. Oldest new case, October 30, 1944; oldest amended, November 2, 1944.)
(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action: New | Amended | No. of applications awaiting action |
|---|---|---|---|
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 6 | Jan 8 | 1286 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Oct. 30 | †Nov. 6 | 1536 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 13 | Jan. 8 | 1441 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | Apr. 12 | †Dec. 29 | 1226 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Nov. 8 | †Nov. 15 | 2084 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb. 3 | Mar. 1 | 1363 |
| 7. JARBOE, C. G., Optics, Photography | May 28 | May 28 | 1128 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 29 | Apr. 14 | 1342 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 4 | 1416 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 18 | June 2 | 365 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 5 | †Nov. 25 | 1403 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning | Apr. 9 | Apr. 4 | 1192 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Apr. 10 | Apr. 4 | 922 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | May 15 | Apr. 23 | 972 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 24 | Mar. 28 | 939 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Jan. 15 | Jan. 1 | 729 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 15 | Feb. 20 | 1284 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Mar. 16 | Feb. 3 | 868 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Mar. 10 | Mar. 20 | 909 |
| 21. THOMPSON, T. J., Textiles | May 21 | May 21 | 537 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Mar. 23 | Mar. 21 | 1353 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 28 | 167 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 9 | Apr. 2 | 891 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Feb. 12 | Feb. 27 | 1123 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 15 | †Dec. 11 | 1387 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Dec. 4 | 1284 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Dec. 30 | †Dec. 6 | 1066 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools. | Jan. 4 | †Dec. 21 | 1315 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 19 | Feb. 9 | 1404 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | June 22 | June 22 | 890 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Apr. 9 | Apr. 21 | 1049 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 9 | Feb. 17 | 1335 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 5 | Feb. 19 | 773 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Jan. 31 | Feb. 2 | 1137 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Mar. 7 | Mar. 9 | 879 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | †Dec. 30 | †Dec. 15 | 1277 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Jan. 31 | Jan. 6 | 1030 |
| 39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 15 | Jan. 15 | 1435 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 15 | Feb. 28 | 1615 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 633 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Mar. 10 | Mar. 27 | 698 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 12 | Jan. 4 | 833 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Nov. 1 | †Nov. 2 | 764 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Feb. 8 | Feb. 8 | 1469 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | Jan. 15 | Feb. 9 | 861 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 12 | Apr. 18 | 1368 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | Jan. 1 | Jan. 3 | 1405 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Apr. 2 | Apr. 2 | 792 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 10 | Mar. 14 | 1634 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Jan. 30 | Jan. 20 | 2267 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 9 | Feb. 2 | 1864 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Nov. 9 | †Nov. 30 | 1573 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 31 | †Nov. 18 | 1538 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 2 | Feb. 26 | 997 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | †Dec. 22 | †Dec. 26 | 1154 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 14 | †Dec. 9 | 1348 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | Apr. 27 | 809 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 23 | †Dec. 15 | 1533 |
| 60. GLASS, R. L., Electricity-Heating, Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 16 | Jan. 16 | 1317 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 19 | Feb. 21 | 1303 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 5 | †Dec. 9 | 2090 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 27 | Jan. 16 | 1682 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | July 12 | July 10 | 863 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Dec. 7 | †Dec. 8 | 1505 |
| Trade-Marks: RICHMOND, F. A | July 30 | Sept. 5 | 3255 |
| Designs: KALUPY, H. H | July 26 | Sept. 11 | 1909 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Vitamin preparation containing vitamin C. Serial No. 488,181; Dec. 4. Class 6.

Aero-Liter Manufacturing Company, Wichita, Kans. Pyrophoric cigarette and cigar lighters. Serial No. 485,390; Dec. 4. Class 34.

Aircraft Screw Products Company, Inc., Long Island City, N. Y. Screw connections and parts of screw connections. Serial No. 480,972; Dec. 4. Class 13.

American Tank and Fabricating Company, The, Cleveland, Ohio. Non-electric industrial crucibles, non-electric industrial kettles, pots, pans, etc., and non-electric annealing boxes, etc. Serial No. 487,111; Dec. 4. Class 34.

Associated Dehydrating Corporation, Vernalis, Calif. Dehydrated alfalfa products. Serial No. 487,162; Dec. 4. Class 46.

Basic Foods Sales Corp., New York, N. Y. Icing for cakes and cookies. Serial No. 474,106; Dec. 4. Class 46.

Billboard Publishing Company, The, Cincinnati, Ohio. Weekly poster. Serial No. 485,262; Dec. 4. Class 38.

Bradford Dyeing Association (U. S. A.), Bradford, R. I. Piece goods made of cotton, rayon, and nylon mixtures thereof. Serial No. 477,058; Dec. 4. Class 42.

Celanese Corporation of America, New York, N. Y. Publication containing informative matter issued periodically. Serial No. 469,354; Dec. 4. Class 38.

Charles of the Ritz, Inc., New York, N. Y. Toilet soaps. Serial No. 485,756; Dec. 4.

Charms Company, Bloomfield, N. J. Nutted candies. Serial No. 461,918; Dec. 4. Class 46.

Chester Distillers Products Corp., Pittsburgh, Pa. Whiskey. Serial No. 487,114; Dec. 4. Class 49.

Cleevelandt Corporation, New York, N. Y. Cigarette cases. Serial No. 486,984; Dec. 4. Class 8.

Columbian Steel Tank Company, Kansas City, Mo. Electric switch cabinets, electric knockout boxes, and transformer cabinets. Serial No. 478,496; Dec. 4. Class 21.

Crescent Bronze Powder Co., Chicago, Ill. Mixed aluminum paint. Serial No. 472,942; Dec. 4. Class 16.

Crown Willamette Paper Company: *See*—
Crown Zellerbach Corporation.

Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif. Gummed tape. Serial No. 485,330; Dec. 4. Class 37.

D'Ger French Dressing Co.: *See*—
Spandau, Rose P.

Dix, Henry A., & Sons Corporation, New York, N. Y. Piece gods of silk, rayon, or worsted, or combinations thereof. Serial No. 483,814; Dec. 4. Class 42.

Dri-Steam Products, Inc., New York, N. Y. Separators and strainers. Serial No. 475,686; Dec. 4. Class 13.

Dunn, Thomas W., Co. Inc., New York, N. Y. Flexible glues, glue and gelatine coating compounds etc. Serial No. 477,761; Dec. 4. Class 5.

Etsol Synthetic Products: *See*—
Schulte, Edwin F.

Everson, F. E.: *See*—
Everson, Franklin E.

Everson, Franklin E., doing business as F. E. Everson, New York, N. Y. Detergent preparation. Serial No. 479,787; Dec. 4. Class 4.

Exoln Products Co., Los Angeles, Calif. Compound containing a liquid metal. Serial No. 475,149; Dec. 4. Class 6.

Farmer, E. Weston, Minneapolis, Minn. Toy construction sets. Serial No. 487,705; Dec. 4. Class 22.

Feldstein, Zadek, Co., Inc., New York, N. Y. Teething necklaces. Serial No. 475,674; Dec. 4. Class 44.

Fine, Max, & Sons, Inc., New York, N. Y. Jewelry. Serial No. 484,049; Dec. 4. Class 28.

Florence Distributing Co., Chicago, Ill. Egg shipping crates. Serial No. 487,317; Dec. 4. Class 2.

General Aniline & Film Corporation, New York, N. Y. Light sensitive diazotype papers, cloths, films, etc. Serial No. 487,130; Dec. 4. Class 26.

General Foods Corporation, New York, N. Y. Salt. Serial No. 483,174; Dec. 4. Class 46.

Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass. Smoked bloaters, smoked herring, salt codfish, etc. Serial No. 474,628; Dec. 4. Class 46.

Grandin, D. H., Milling Company, Jamestown, N. Y. Periodical publications. Serial No. 485,770; Dec. 4. Class 38.

Hartley, Newell D., Devon, Conn. Clothes cabinets. Serial No. 485,911; Dec. 4. Class 32.

Henry Publishing Co., New York, N. Y. Monthly bulletin and guide. Serial No. 479,477; Dec. 4. Class 38.

Hollingshead, R. M., Corporation, Camden, N. J. Insect spray. Serial No. 472,640; Dec. 4. Class 6.

Hollywood Doll Manufacturing Company: *See*—
Ippolito, Domenick.

Imperial Chemical (Pharmaceuticals) Limited, Slough, England. Chemical substances for use as antiseptics, bactericides, antimalarials, etc. Serial No. 463,200; Dec. 4. Class 6.

International Nickel Company, Inc., The, New York, N. Y. Nickel-containing iron castings. Serial No. 484,953; Dec. 4. Class 14.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls. Serial No. 481,227; Dec. 4. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls. Serial No. 481,229; Dec. 4. Class 22.

Jeurelle, Inc., New York, N. Y. Cologne. Serial No. 486,900; Dec. 4. Class 6.

Jeurelle, Inc., New York, N. Y. Perfume. Serial No. 486,901; Dec. 4. Class 6.

Jeurelle, Inc., New York, N. Y. Leg make-up. Serial No. 486,902; Dec. 4. Class 6.

Kellogg Company, Battle Creek, Mich. Corn grits and corn meal. Serial No. 486,259; Dec. 4. Class 46.

Knothe Brothers Co. Inc., New York, N. Y. Men's, women's and boys' pajamas, and robes. Serial No. 472,867; Dec. 4. Class 39.

Koppers Company, Inc., Kearny, N. J. Insecticides and naphthalene. Serial No. 478,395; Dec. 4. Class 6.

La Motte Chemical Products Company, Towson, Md. Chemical reagent. Serial No. 486,410; Dec. 4. Class 6.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Perfume; toilet water; talcum powder; etc. Serial No. 484,305; Dec. 4. Class 6.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Cleaner and detergent having incidental disinfectant properties. Serial No. 478,634; Dec. 4. Class 4.

Lo-Bel Co., The, New York, N. Y. Children's snow suits. Serial No. 486,264; Dec. 4. Class 39.

Lyons-Magnus, Inc., San Francisco, Calif. Chocolate flavoring syrups for food products. Serial No. 479,684; Dec. 4. Class 46.

M. V. C. Laboratories, Inc., Toledo, Ohio. Nail polish drier. Serial No. 484,693; Dec. 4. Class 6.

Mark-Jeffrey Company, Hollywood, Calif. Cleansing tissues. Serial No. 484,849; Dec. 4. Class 37.

McCoy, Jones & Company, Inc., Chicago, Ill. Cleansing tissues. Serial No. 474,493; Dec. 4. Class 37.

Midland Cooperative Dairy Ass'n., Shawano, Wis. Evaporated milk. Serial No. 486,999; Dec. 4. Class 46.

Miller, Madalyn, Los Angeles, Calif. Women's, misses', and girls' dresses and sportwear. Serial No. 481,234; Dec. 4. Class 39.

Multanol Laboratories: *See*—
Semenoff, Paul V.

National Agrol Company, The, Washington, D. C. Chewing gum. Serial No. 474,381; Dec. 4. Class 46.

National Engineering Company, Chicago, Ill. News publication. Serial No. 476,848; Dec. 4. Class 38.

Nedlyn, Inc., St. Louis, Mo. Nail polish remover and conditioner. Serial No. 487,273; Dec. 4. Class 6.

Nichols, Oscar Moore, Waltham, Mass. Monthly periodical. Serial No. 482,214; Dec. 4. Class 38.

Norton Company, Worcester, Mass. Oilstones, abrasive stones, cleaning stones, etc. Serial No. 486,586; Dec. 4. Class 4.

Norwich Pharmacal Company, The, Norwich, N. Y. Preparation for the care of the hair. Serial No. 487,430; Dec. 4. Class 6.

Oxy-Ferrolene Limited, Leicester, England. Gaseous fuels. Serial No. 469,876; Dec. 4. Class 6.

Palay, S. T., Textile Corporation, New York, N. Y. Piece goods of rayon, cotton, or wool. Serial No. 483,443; Dec. 4. Class 42.

Paramount Cosmetics, Inc., New York, N. Y. Liquid make-up base. Serial No. 484,971; Dec. 4. Class 6.

Paramount Cosmetics, Inc., New York, N. Y. Perfumes and toilet water. Serial No. 484,972; Dec. 4. Class 6.

Parke, Davis & Company, Detroit, Mich. Inhalant. Serial No. 485,587; Dec. 4. Class 6.

Parke, Davis & Company, Detroit, Mich. Combination of theophyllin, phenobarbital and mannitol. Serial No. 485,589; Dec. 4. Class 6.

Pinaud Incorporated, New York, N. Y. Eau de cologne. Serial No. 485,883; Dec. 4. Class 6.

Pletcher, G. H., Harlingen, Tex. Fresh grapefruit. Serial No. 484,699; Dec. 4. Class 46.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin tonic. Serial No. 451,774; Dec. 4. Class 6.

Realty and Industrial Corporation, Convent, N. J. Circuit breakers, relays, switches, etc. Serial No. 475,664; Dec. 4. Class 21.

Reproducta, Inc., New York, N. Y. Greeting cards. Serial No. 485,965; Dec. 4. Class 38.

Rodpak Manufacturing Company, San Francisco, Calif. Metallic packing. Serial No. 487,969; Dec. 4. Class 35.
Roe, Arlene, doing business as The Snackwich Co., Denver, Colo. Prepared food product. Serial No. 474,385; Dec. 4. Class 46.
St. Regis Restaurant Corporation, New Orleans, La. Shrimp, fried or cooked, and lunches. Serial No. 480,804; Dec. 4. Class 46.
Schulte, Edwin F., doing business as Etaol Synthetic Products, Detroit, Mich. Bubble producing compound. Serial No. 488,127; Dec. 4. Class 6.
Seegull Manufacturing Company, Philadelphia, Pa. Men's underwear. Serial No. 486,122; Dec. 4. Class 39.
Sel-Mor Garment Company, Inc., St. Louis, Mo. Lingerie, specifically women's and girls' pajamas, night gowns, slips, etc. Serial No. 474,711; Dec. 4. Class 39.
Semenoff, Paul V., doing business as Multanol Laboratories, New York, N. Y. Face cream. Serial No. 487,216; Dec. 4. Class 6.
Seydel Chemical Company, Jersey City, N. J. Compound of benzoate salt for internal use. Serial No. 470,683; Dec. 4. Class 6.
Snackwich Co., The: *See*—
Roe, Arlene.
Societe d'Etudes et d'Expansion de la Perfumerie de Luxe, Paris and Asnieres, near Paris, France. Perfumes. Serial No. 483,494; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. mineral white mineral oil. Serial No. 485,163; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. mineral white mineral oil. Serial No. 485,166; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. mineral white mineral oil. Serial No. 485,169; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. light medicinal white mineral oil. Serial No. 485,170; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. mineral white mineral oil. Serial No. 485,171; Dec. 4. Class 6.
Sonneborn, L., Sons, Inc., New York, N. Y. Water miscible mineral medicinal white oil. Serial No. 485,458; Dec. 4. Class 6.
Spandau, Rose P., doing business as D'Ger French Dressing Co., Pittsburgh, Pa. Salad dressing. Serial No. 486,923; Dec. 4. Class 46.
Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Chemical wood pulp. Serial No. 482,660; Dec. 4. Class 1.
United Farmers Dairy Stores, Inc., Boston and Charlestown, Mass. Ice cream. Serial No. 482,817; Dec. 4. Class 46.
Vandam, Albert H., Co., Inc., New York, N. Y. Textile fabrics in the piece of cotton, rayon, protein fibres. Serial No. 479,825; Dec. 4. Class 42.
Virginia-Lincoln Corporation, Marion, Va. Aircraft structural parts. Serial No. 484,650; Dec. 4. Class 19.
Volitant Publishing Company, New York, N. Y. Magazine. Serial No. 472,482; Dec. 4. Class 38.
Warner, William R., & Co., Inc., Wilmington, Del., and New York, N. Y. Antiseptic and disinfectant. Serial No. 473,166; Dec. 4. Class 6.
Washington, Martha, Candies Company, Chicago, Ill. Candy. Serial No. 486,399; Dec. 4. Class 46.
Western Auto Supply Company, Kansas City, Mo. Refrigerators. Serial No. 487,654; Dec. 4. Class 31.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Inorganic alkaline composition. Serial No. 481,817; Dec. 4. Class 6.
Zondine Game Co., Los Angeles, Calif. Games. Serial No. 482,912; Dec. 4. Class 22.

# LIST OF REGISTRANTS OF TRADE-MARKS

Ack-Roy-Lyne Laboratories: *See*—
Patterson, Roy McClure.
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany, to Du Pont Semesan Company, Wilmington, Del. Agents for destroying parasites. 202,205; renewed Aug. 18, 1945. O. G. Dec. 4. Class 6.
Adler, Adam N., to Leo Adam Adler, doing business as Adler Mayonnaise Co., Evansville, Ind. Sandwich dressing, mayonnaise, thousand island dressing. 206,405; renewed Dec. 1, 1945. O. G. Dec. 4. Class 46.
Adler, Leo A.: *See*—
Adler, Adam N.
Adler Mayonnaise Co.: *See*—
Adler, Adam N.
Air Treatment Corp. of America, New York, N. Y. Deodorant. 418,149; Dec. 4. Class 6.
Aircraft Standard Parts Company, Rockford, Ill. Hose clamps. 418,083; Dec. 4; Serial No. 464,498; published Sept. 25, 1945. Class 13.
Alien Property Custodian: *See*—
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler.
Mülhens & Kropff.
American Automatic Typewriter Co., Chicago, Ill. Power operated aviation training apparatus. 418,117; Dec. 4; Serial No. 482,235; published Sept. 25, 1945. Class 26.
American Lubricants, Inc.: *See*—
Glido Oil & Chemical Company, Inc.
American Oil & Supply Company, Newark, N. J. Liquid and semi-solid anti-friction bearing lubricants and greases. 418,161; Dec. 4. Class 15.
American Oil & Supply Company, Newark, N. J. Liquid and semi-solid gear lubricants. 418,162; Dec. 4. Class 15.
Ancell, Nathan S., New York, N. Y. Furniture. 418,107; Dec. 4; Serial No. 479,411; published Sept. 25, 1945. Class 32.
Annis, George W., Forest Hills, N. Y. Ointment for treatment of the skin. 418,157; Dec. 4. Class 6.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Face and body creams. 418,183; Dec. 4. Class 6.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Face and body creams. 418,187; Dec. 4. Class 6.
Arlene Chocolate Co.: *See*—
Beltscher, Eugene.
Associated Fruit Company, The, Delta, to Palmer and Company, Cedaredge, Colo. Fresh apples and peaches. 200,970; renewed July 14, 1945. O. G. Dec. 4. Class 46.
Associated Fruit Company, The, Delta, to Palmer and Company, Cedaredge, Colo. Fresh apples. 201,024; renewed July 14, 1945. O. G. Dec. 4. Class 46.
Atlantic Mills, The, Olneyville, R. I., and Stottsville, to A. D. Juilliard & Co., Inc., New York, N. Y. Woolen dress goods. 205,827; renewed Nov. 17, 1945. O. G. Dec. 4. Class 42.
Aucoin: *See*—
Decker, Mamie C. A.
Aufhauser, Alfred, doing business as Industrial Raw Materials Company, New York, N. Y. Wax compositions. 418,128; Dec. 4; Serial No. 483,756; published Sept. 18, 1945. Class 16.
Babbitt, B. T., Inc.: *See*—
Schield, Wm., Mfg. Co.
Ballou, B. A., & Co. Incorporated, Providence, R. I. Cuff buttons, cuff links, buckles, etc. 208,865; renewed Feb. 9, 1946. O. G. Dec. 4. Class 28.
Bayer Company, Inc., The, New York, N. Y., to Sterling Drug Inc., Wilmington, Del. Rodenticides. 208,439; renewed Feb. 2, 1946. O. G. Dec. 4. Class 6.
Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 208,451; renewed Feb. 2, 1946. O. G. Dec. 4. Class 17.
Behlen, H. & Bro., Inc., New York, N. Y. Ready-mixed paints, paint enamels, varnish, etc. 418,093; Dec. 4; Serial No. 474,190; published Jan. 23, 1945. Class 16.
Beltscher, Eugene, doing business as Arlene Chocolate Co., Brooklyn, N. Y. Candy. 418,167; Dec. 4. Class 46.
Bennetch, Adaline A.: *See* Kline, Urias B.
Birk, David, doing business as Birk Paint Company, Jersey City, N. J. Paints. 418,096; Dec. 4; Serial No. 474,529; published Feb. 20, 1945. Class 16.
Birk Paint Company: *See*—
Birk, David.
Bonita Candies, Inc.: *See*—
Bonita Co., The.
Bonita Company, The: *See*—
Bonita Co., The.
Bonita Co., The, also doing business as The Bonita Company, to Bonita Candies, Inc., Fond du Lac, Wis. Candy. 202,459; renewed Aug. 25, 1945. O. G. Dec. 4. Class 46.
Booth Fisheries Company, Chicago, Ill., to Pacific American Fisheries, Inc., South Bellingham, Wash. Canned salmon. 202,901; renewed Sept. 8, 1945. O. G. Dec. 4. Class 46.
Bor-Lenz Enterprises, Los Angeles, Calif. Pyrophoric cigarette, cigar and pipe lighters. 418,132; Dec. 4; Serial No. 484,159; published Sept. 4, 1945. Class 34.
Boston Drug & Chemical Co., Boston, Mass. After-shaving lotion. 418,173; Dec. 4. Class 6.
Bostonian Manufacturing Company, New York, N. Y. Handbags. 418,140; Dec. 4; Serial No. 484,932; published Sept. 25, 1945. Class 3.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling-alley pin setters and supplies and equipment therefor. 208,402; renewed Feb. 2, 1946. O. G. Dec. 4. Class 22.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alley cleaner and polish. 418,148; Dec. 4. Class 16.
Buquseal Company: *See*—
Chapman, Clyde D.
Buten M., & Sons, Philadelphia, Pa. Paints and varnishes of all kinds. 207,050; renewed Dec. 15, 1945. O. G. Dec. 4, 1945. Class 16.



California Fig Syrup Co., San Francisco, Calif., to Sterling Drug Inc., Wilmington, Del. Liquid purgative compounds. 40,561; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 6.
California Fruit Growers Exchange: *See*—
Exchange Orange Products Company, The.
Calumet and Hecla Consolidated Copper Company, Boston, Mass. Finned tubing. 418,091; Dec. 4; Serial No. 473,902; published May 15, 1945. Class 34.
Caradine Harvest Hat Company to Caradine Hat Company, St. Louis, Mo. Straw hats. 206,813; renewed Dec. 8, 1945. O. G. Dec. 4. Class 39.
Caradine Hat Company: *See*—
Caradine Harvest Hat Company.
Superior Hat Co.
Carlisle & Swope, doing business as Carlisle and Swope Company, Denver, Colo. Acrylic denture material. 418,087; Dec. 4; Serial No. 470,481; published Mar. 6, 1945. Class 44.
Carlisle and Swope Company: *See*—
Carlisle & Swope.
Carr, Adams & Collier Company, Dubuque, Iowa. Kitchen cabinets. 418,143; Dec. 4; Serial No. 485,721; published Sept. 25, 1945. Class 32.
Celite Products Co., Los Angeles, Calif., to Johns-Manville Corporation, New York, N. Y. Materials comprising diatomaceous earth or infusorial earth, etc. 206,241; renewed Nov. 24, 1945. O. G. Dec. 4. Class 1.
Celite Products Company, Los Angeles, Calif., to Johns-Manville Corporation, New York, N. Y. Finely-divided solid material having selective absorptive properties. 206,291; renewed Nov. 24, 1945. O. G. Dec. 4. Class 31.
Celluloid Starch Company, The, New York, N. Y., to A. E. Staley Manufacturing Co., Decatur, Ill. Laundry starch. 49,688–89; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 6.
Celotex Company, The, to The Celotex Corporation, Chicago, Ill. Decorative wall finish used for accoustical correction. 203,689; renewed Sept. 22, 1945. O. G. Dec. 4. Class 12.
Celotex Corporation, The: *See*—
Celotex Company.
Central States Paper and Bag Company. *See*—
Central States Paper Distributing Co.
Central States Paper Distributing Co. to Central States Paper and Bag Company, St. Louis, Mo. Printed craft paper. 208,558; renewed Feb. 2, 1946. O. G. Dec. 4, 1945. Class 37.
Chapman, Clyde D., doing business as Buquseal Company, Spokane, Wash. Liquid cleaning, glazing and polishing material. 418,126; Dec. 4; Serial No. 483,654; published Sept. 25, 1945. Class 16.
Chemische Fabrik Pott & Co., Dresden, Germany, to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparations for treating textile fabers and fabrics. 202,957; renewed Sept. 8, 1945. O. G. Dec. 4. Class 6.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 201,948; renewed Aug. 11, 1945. O. G. Dec. 4. Class 42.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 202,303–4; renewed Aug. 18, 1945. O. G. Dec. 4. Class 42.
Cheney Brothers, South Manchester, Conn. Strand-examining machines. 202,456; renewed Aug. 25, 1945. O. G. Dec. 4. Class 23.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 203,532; renewed Sept. 22, 1945. O. G. Dec. 4. Class 42.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 203,635; renewed Sept. 22, 1945. O. G. Dec. 4. Class 42.
Chipman Knitting Mills: *See*—
Pennsylvania Silk Hosiery Mills, Inc.
Colton Razor Blade Company: *See*—
Roth, Otto, Inc.
Columbia Publications, Inc., New York, N. Y. and Holyoke, Mass. Magazine. 418,146–7; Dec. 4. Class 38.
Columbian Steel Tank Company, Kansas City, Mo. Respirators. 418,105; Dec. 4; Serial No. 478,498; published Sept. 25, 1945. Class 44.
Consolidated Cosmetics, Chicago, Ill. Lipsticks, facial make-up, face powder, and perfumes. 418,184; Dec. 4. Class 6.
Consolidated Cosmetics, Chicago, Ill. Lipsticks, face powder, hand lotion, etc. 418,188; Dec. 4. Class 6.
Corning Glass Works, Corning, N. Y. Glass articles. 418,005; Dec. 4; Serial No. 474,481; published Sept. 25, 1945. Class 44.
Crescent Bottling Works, Newark, N. J. Cidar vinegar, white vinegar, prepared mustard. 206,008; renewed Nov. 24, 1945. O. G. Dec. 4. Class 46.
Crescent Manufacturing Co., Seattle, Wash. Flavoring extracts. 48,449; renewed Jan. 2, 1946. O. G. Dec. 4. Class 46.
Crescent Manufacturing Co., Seattle, Wash. Coffee. 49,068; re-renewed Jan. 23, 1946. O. G. Dec. 4. Class 46.
Crowley, Charles H., New York, N. Y. Needles. 49,431; re-renewed Feb. 6, 1946. O. G. Dec. 4. Class 40.
Curtiss-Wright Corporation, New York and Buffalo, N. Y.; Columbus, Ohio; Louisville, Ky.; and St. Louis, Mo. Airplanes and structural parts thereof. 418,103; Dec. 4; Serial No. 478,112; published Sept. 11, 1945. Class 19.
D-A Lubricant Company, Inc., Indianapolis, Ind. Lubricating greases. 208,213; renewed Jan. 19, 1946. O. G. Dec. 4. Class 15.
Davis Bros. Cheese Co., Plymouth, to Kraft Cheese Company of Wisconsin, Green Bay, Wis. Cheese. 205,082; renewed Nov. 3, 1945. O. G. Dec. 4. Class 46.
Davis, Lyman T., doing business as Lyman's Pure Food Products Co., to Wolf Brand Products, Corsicana, Tex. Canned chili made of beef. 203,858; renewed Sept. 29, 1945. O. G. Dec. 4. Class 46.
Decker, Mamie C. A., doing business as Aucoin, New Orleans, La. Perfume. 418,174; Dec. 4. Class 6.
De Welles, Roy W., Kansas City, Mo. Apparatus for irrigating the human bowels. 418,166; Dec. 4. Class 44.
Diamond Crystal Salt Co., St. Clair, Mich., to General Foods Corporation, New York, N. Y. Salt for table, cooking, dairy and general household uses. 48,072; re-renewed Dec. 5, 1945. O. G. Dec. 4. Class 46.
Diversey Corporation, The, Chicago, Ill. Product in liquid form. 418,098; Dec. 4; Serial No. 475,557; published Sept. 18, 1945. Class 16.
Dudley, Carl, Productions: *See*—
Dudley, Carl.
Duetache Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian, Washington, D. C. Chemicals for destroying vermin, animal and plant pests. 201,635; renewed Aug. 4, 1945. O. G. Dec. 4. Class 6.
Du Pont, E. I., de Nemours and Company: *See*—
Chemische Fabrik Pott & Co.
Roessler & Hasslacher Chemical Company.
Du Pont Semesan Company: *See*—
Actien-Gesellschaft für Anilin-Fabrikation.
Durgin-Park, Boston, Mass. Coffee. 418,145; Dec. 4.
Emel Packing Company, Seattle, Wash., and Valdez, Alaska, to Pacific American Fisheries, Inc., South Bellingham, Wash. Canned salmon. 201,977; renewed Aug. 11, 1945. O. G. Dec. 4. Class 46.
Emeralite Company, Inc.: *See*—
McFaddin, H. G., & Co.
Eureka Springs Water Co., to Richard R. Thompson, Eureka Springs, Ark. Mineral water. 46,314; re-renewed Apr. 12, 1945. O. G. Dec. 4. Class 45.
Exchange Orange Products Company, The, San Dimas, to California Fruit Growers Exchange, Los Angeles, Calif. Nonalcoholic beverages. 208,518; renewed Feb. 2, 1946. O. G. Dec. 4. Class 45.
Fairchild Bros. and Foster, New York, N. Y. Medicinal preparation. 418,163; Dec. 4. Class 6.
Fisher Governor Company, Marshalltown, Iowa. Constant pump governors; excess or differential pump governors; pressure reducing valves, etc. 418,084; Dec. 4; Serial No. 470,178; published Sept. 18, 1945. Class 13.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum containing chlorophyll carotenoids complex and Brewers' yeast. 418,159; Dec. 4. Class 6.
Fountain Service Company: *See*—
Price, Robert I.
Franklin Baker Company, Hoboken, N. J., to General Foods Corporation, New York, N. Y. Prepared coconut. 206,884; renewed Dec. 15, 1945. O. G. Dec. 4. Class 46.
Frost Fishing Tackle Company, to The Weber Lifeline Fly Co., Stevens Point, Wis. Fishing tackle. 208,417; renewed Feb. 2, 1946. O. G. Dec. 4. Class 22.
Garay Toiletries, Inc., New York, N. Y. Brushless shave cream and shave soap. 418,131; Dec. 4; Serial No. 483,967; published Sept. 25, 1945. Class 4.
General Aircraft Equipment, Inc., South Norwalk, Conn. Electrical and mechanical refrigerators and parts thereof, etc. 418,124; Dec. 4; Serial No. 483,524; published Sept. 25, 1945. Class 31.
General Foods Corporation: *See*—
Diamond Crystal Salt Co.
Franklin Baker Company.
Postum Cereal Co., Limited.
General Furnaces Corporation, New York, N. Y. Steam and hot water generators and boiler-burner units therefor, etc. 418,081; Dec. 4; Serial No. 455,624; published May 15, 1945. Class 34.
General Water Heater Corporation, Burbank, Calif. Water heaters. 418,085–6; Dec. 4; Serial Nos. 470,303–4; published Sept. 25, 1945. Class 34.
Gilbert, Martin, Reedley, Calif. Fresh grapes, pears, plums, etc. 208,292; renewed Jan. 26, 1946. O. G. Dec. 4. Class 46.
Glastonbury Knitting Company, Addison, Conn., to Wright's Underwear Company, Inc., New York, N. Y. Knitted underwear. 49,768; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 39.
Glido Oil & Chemical Company, Inc., to American Lubricants, Inc., Buffalo, N. Y. Lubricating oils and greases. 201,220; renewed July 21, 1945. O. G. Dec. 4. Class 15.

Gold Seal Co.: *See*—
Schafer, Harold L.

Goodman, L. A., Manufacturing Company, Chicago, Ill. Dolls and table tennis balls. 418,119; Dec. 4; Serial No. 482,570; published Sept. 25, 1945. Class 22.

Goodman-Scheinhorn, New York, N. Y. Ladies' dresses. 418,154; Dec. 4. Class 39.

Gorton Heating Corporation: *See*—
Gorton & Lidgerwood Co.

Gorton & Lidgerwood Co., New York, N. Y., to Gorton Heating Corporation, Cranword, N. J. Heating apparatus. 206,466; renewed Dec. 1, 1945. O. G. Dec. 4. Class 34.

Graham Paper Company, St. Louis, Mo. Sanitary napkins. 418,186; Dec. 4. Class 44.

Greenbaum, Harry L., doing business as Technical Color & Chemical Works, to Technical Color and Chemical Works, Inc., Brooklyn, N. Y. Prepared shellac, banana bronzing liquids, hard wax polish, etc. 207,016; renewed Dec. 15, 1945. O. G. Dec. 4. Class 16.

Greenbaum, Harry L., doing business as Technical Color & Chemical Works, to Technical Color and Chemical Works, Inc., Brooklyn, N. Y. Oxalic acid, bismarck brown aniline, electric-bulb coloring, etc. 208,110; renewed Jan. 19, 1946. O. G. Dec. 4. Class 6.

Harbor Plywood Corporation, Hoquiam, Wash. Plywood. 418,092; Dec. 4; Serial No. 474,077; published Sept. 25, 1945. Class 12.

Harvey Machine Co., Inc., Los Angeles, Calif. Toy boats and toy airplanes. 418,106; Dec. 4; Serial No. 479,124; published Sept. 25, 1945. Class 22.

Havana Commercial Company, New York, N. Y., to Havana Commercial Company, Trenton, N. J. Havana cigars. 49,375; re-renewed Feb. 6, 1946. O. G. Dec. 4. Class 17.

Hitchner Biscuit Co., The, West Pittston, Pa. Biscuits, crackers, and wafers. 49,547: re-renewed Feb. 6, 1946. O. G. Dec. 4. Class 46.

Hoffman, E. A., Candy Co., to E. A. Hoffman Candy Co., Inc., Los Angeles, Calif. Candy. 207,146; renewed Dec. 22, 1945. O. G. Dec. 4. Class 46.

Hoffman, E. A., Candy Co., Inc.: *See*—
Hoffman, E. A., Candy Co.

Hoffman, E. A., Candy Co., Inc., Los Angeles, Calif. Candy. 201,350; renewed July 21, 1945. O. G. Dec. 4. Class 46.

Hollins Mill Co., The.: *See*—
Jones Brothers & Co.

Holsum Products: *See*—
Jewett & Sherman Co.

Honegger Feed Mills: *See*—
Honeggers' & Co.

Honeggers' & Co., also doing business as Honegger Feed Mills, Forrest, Ill. Feed for baby chicks. 418,165; Dec. 4. Class 46.

Howell Company, Inc., The, New Orleans, La. Deodorizer. 418,164; Dec. 4. Class 6.

Igleheart Brothers Incorporated: *See*—
Phoenix Flour Mill.

Industrial Raw Materials Company: *See*—
Aufhauser, Alfred.

Jackson Company, Nashua, N. H., to Nasbua Manufacturing Company, Boston, Mass. Cotton piece goods. 49,437; re-renewed Feb. 6, 1946. O. G. Dec. 4. Class 42.

Jenkins, Alfred B., New York, N. Y., and Boston, Mass., to Jenkins Bros., New York, N. Y., and Bridgeport, Conn. Valves and parts of valves and cocks and parts of cocks. 48,373; re-renewed Dec. 26, 1945. O. G. Dec. 4. Class 13.

Jenkins Bros.: *See*—
Jenkins, Alfred B.

Jewett & Sherman Co., doing business as Holsum Products, Milwaukee, Wis. Peanut butter. 418,181; Dec. 4. Class 46.

Johns-Manville Corporation: *See*—
Celite Products Co.
Johns-Manville, Incorporated.

Johns-Manville, Incorporated, to Johns-Manville Corporation, New York, N. Y. Sectional pipe covering. 204,576; renewed Oct. 20, 1945. O. G. Dec. 4. Class 12.

Jolly Toys, Inc., New York, N. Y. Stuffed toys. 418,099; Dec. 4; Serial No. 476,292; published Jan. 30, 1945. Class 22.

Jones Brothers & Co., to The Hollins Mill Co., Limited, Manchester, England. Ribbons, trimmings, dress material, etc. 27,170; re-renewed Nov. 5, 1945. O. G. Dec. 4. Classes 39, 40, 42, and 44.

Joyce, Melvin D., Saginaw, Mich. Clothes line reels. 418,108; Dec. 4; Serial No. 479,482; published Sept. 25, 1945. Class 24.

Juilliard, A. D., & Co., Inc.: *See*—
Atlantic Mills, The.

Kantor, Irving, doing business as Kantor Surgical Co., New York, N. Y. Ptosis supports, sacro-iliac supports, abdominal supports, etc. 418,138; Dec. 4; Serial No. 484,745; published Sept. 25, 1945. Class 44.

Kantor Surgical Co.: *See*—
Kantor, Irving.

Kendall, Dr. B. J., Company, Enosburg Falls, Vt. Powders for use as a remedy for cattle and horses. 45,697; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 6.

Kendall, Dr. B. J., Company, Enosburg Falls, Vt. Liquid preparation used as a remedy for ring-bone, spavin, shint, etc. 45,698; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 6.

Kennel Food Supply Company, The, Fairfield, Conn. Dog biscuits, canned dog food, and dog meal. 418,133; Dec. 4; Serial No. 484,410; published Sept. 25, 1945. Class 46.

Kline, Urias B., to Adaline A. Bennetch, Reamstown, Pa. Remedy for the cure of dyspepsia and indigestion. 43,784; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 6.

Knapp, Sherriff & Koelle, Donna, Tex. Fresh citrus fruits. 418,168; Dec. 4. Class 46.

Koppers Company, Inc., Kearny, N. J. Cakes of refined naphthalene with gum camphor. 418,171; Dec. 4. Class 6.

Kraft Cheese Company of Wisconsin: *See*—
Davis Bros. Cheese Co.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Tooth brushes. 418,090; Dec. 4; Serial No. 473,254; published Sept. 18, 1945. Class 29.

Lair, J. T., doing business as J. T. Lair Co., Seattle, Wash. Canned salmon. 418,172; Dec. 4. Class 46.

Lair, J. T., Co: *See*—
Lair, J. T.

Lamont Watch Corporation, New York, N. Y. Watches. 418,160; Dec. 4. Class 27.

Lampl, Walter, New York, N. Y. Small containers, sold empty. 418,150; Dec. 4. Class 28.

Lawson, Holger, doing business as Lawson Machine Works, Montreal, Quebec, Canada. Fishing rods and fishing reels. 418,169; Dec. 4. Class 22.

Lawson Machine Works: *See*—
Lawson, Holger.

Lewis, A. Rockford, New Orleans, La. Oil for the treatment of rheumatism. 208,222; renewed Jan. 19, 1946. O. G. Dec. 4. Class 6.

Lithaloys Corporation, New York, N. Y. Metals and alloys. 418,102; Dec. 4; Serial No. 477,333; published Sept. 25, 1945. Class 14.

Little Elmer Toy Company, Eau Claire, Wis. Assembled toys. 418,144; Dec. 4; Serial No. 485,731; published Sept. 25, 1945. Class 22.

Lord Baltimore Press, The, Baltimore, Md. Boxes and cartons. 418,100; Dec. 4; Serial No. 476,808; published Sept. 25, 1945. Class 2.

Louisiana State Rice Milling Company, Inc., Abbeville, La. Rice. 418,089; Dec. 4; Serial No. 472,570; published Sept. 25, 1945. Class 46.

Lyman's Pure Food Products Co.: *See*—
Davis, Lyman T.

Lyons-Magnus, Inc., San Francisco, Calif. Root beer fountain syrups and bottled root beer. 418,175; Dec. 4. Class 45.

Maltine Company, The, Brooklyn, to The Maltine Company, New York, N. Y. Medicinal preparations containing the nutritive elements of grain. 48,761; re-renewed Jan. 9, 1946. O. G. Dec. 4. Class 6.

Marathon Corporation, Rothschild, Wis. Paper cartons. 418,142; Dec. 4; Serial No. 485,509; published Sept. 25, 1945. Class 2.

Martin, Geo. F., & Company, Watsonville, Calif. Dry edible beans. 418,153; Dec. 4. Class 46.

Matulich, T. J., doing business as T. J. Matulich Co., Watsonville, Calif. Fresh vegetables. 418,180; Dec. 4. Class 46.

Matulich, T. J., Co.: *See*—
Matulich, T. J.

McFaddin, H. G., & Co., to Emeralite Company, Inc., New York, N. Y. Portable electric-lighting fixtures, electric desk lamps, electric dresser lamps, etc. 208,901; renewed Feb. 9, 1946. O. G. Dec. 4. Class 21.

Mevi Incorporated, New York, N. Y. Game boards. 418,116; Dec. 4; Serial No. 482,110; published Sept. 25, 1945. Class 22.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Polish for varnished painted, lacquered and enameled surfaces. 418,129; Dec. 4; Serial No. 483,778; published Sept. 18, 1945. Class 16.

Minute Tapioca Company, Inc.: *See*—
Whitman Grocery Company.

Model Brassiere Co. Inc., New York, to Model Brassiere Corp., Brooklyn, N. Y. Combination garment. 207,932; renewed Jan. 12, 1946. O. G. Dec. 4. Class 39.

Model Brassiere Corp.: *See*—
Model Brassiere Co. Inc.

Moffats Limited, Town of Weston, Ontario, Canada. Refrigerating apparatus. 418,115; Dec. 4; Serial No. 481,419; published Sept. 25, 1945. Class 31.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Antiseptic fluid for internal and external use. 44,947; re-renewed Aug. 1, 1945. O. G. Dec. 4. Class 6.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Toilet soap. 45,428; re-renewed Aug. 15, 1945. O. G. Dec. 4. Class 4.



Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Perfumes and toilet-water. 45,479; re-renewed Aug. 22, 1945. O. G. Dec. 4. Class 6.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Cologne water, Florida water, and perfumery. 45,617; re-renewed Aug. 22, 1945. O. G. Dec. 4. Class 6.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Toilet soap. 45,709; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 4.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Perfumery. 45,743; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 6.

Mülhens & Kropff, New York, N. Y.; vested in the Alien Property Custodian, Washington, D. C. Hair tonic. 45,775; re-renewed Aug. 29, 1945. O. G. Dec. 4. Class 6.

Mullen, John D., Palestine, Ill. French dressing. 418,178; Dec. 4. Class 46.

Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables. 418,141; Dec. 4; Serial No. 485,093; published Sept. 25, 1945. Class 46.

Myers, Ralph E., Co.: *See*—
Myers, Ralph E.

Nashua Manufacturing Company: *See*—
Jackson Company.

National Cocoanut Soap Co., Tacoma, Wash. Soap. 204,872; renewed Oct. 27, 1945. O. G. Dec. 4. Class 4.

National Screw & Manufacturing Company, The, Cleveland, Ohio. Bolts, nuts, rivets, etc. 418,101; Dec. 4; Serial No. 476,815; published Sept. 18, 1945. Class 13.

National Stamping & Electric Works, Chicago, Ill. Electric heating pads, electric hair dryers, electric vibratory outfits, etc. 418,094; Dec. 4; Serial No. 474,344; published Sept. 25, 1945. Class 44.

Nedick's Stores, Inc., New York, N. Y. Meat products, bakery products, coffee, etc. 418,088; Dec. 4.; Serial No. 471,165; published Sept. 25, 1945. Class 46.

Newspaper PM, Inc., The, New York, N. Y. Comic strip. 418,179; Dec. 4. Class 38.

Niagara Units, Inc., New York, N. Y. Therapeutic apparatus for imparting gyratory impulse to the human body. 418,123; Dec. 4; Serial No. 483,198; published Sept. 25, 1945. Class 44.

North Atlantic Packing Company, Bar Harbor, Maine. Canned flaked fish, canned sea mussels, and canned seafood chowder-mix. 418,185; Dec. 4. Class 46.

Nuodex Products Co. Inc., Elizabeth, N. J. Wetting and dispersing agents. 418,113; Dec. 4; Serial No. 481,121; published Sept. 18, 1945. Class 16.

Oakes & Co., also doing business as Tru-Test, Chicago, Ill. Ready-mixed paints, varnishes, paint enamels, etc. 418,111; Dec. 4; Serial No. 480,611; published Sept. 25, 1945. Class 16.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Thermal and acoustic insulation. 418,151; Dec. 4. Class 12.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Air filters, air filtration pads and mats, etc. 418,152; Dec. 4. Class 34.

Pacific American Fisheries, Inc.: *See*—
Booth Fisheries Company.
Emel Packing Company.

Packaging Industries Limited, Montclair, N. J. Adhesive material in liquid form. 418,121; Dec. 4; Serial No. 482,697; published Sept. 25, 1945. Class 5.

Pacolet Mfg. Co., Pacolet and Spartanburg, S. C., and New Holland, Ga. Cotton piece goods. 208,699; renewed Feb. 9, 1946. O. G. Dec. 4. Class 42.

Padre Vineyard Company, Los Angeles, Calif. Wines. 418,182; Dec. 4. Class 47.

Palmer and Company: *See*—
Associated Fruit Company, The.

Patterson, Roy McClure, doing business under the name of the Ack-Roy-Lyne Laboratories, Detroit, Mich. Denture refitting or lining material. 418,082; Dec. 4; Serial No. 483,820; published Sept. 25, 1945. Class 44.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. General cleansing preparation with water-softening properties. 202,019; renewed Aug. 11, 1945. O. G. Dec. 4. Class 4.

Pennsylvania Silk Hosiery Mills, Inc., Bangor, Pa., to Chipman Knitting Mills, Easton, Pa. Hosiery. 203,934; renewed Sept. 25, 1945. O. G. Dec. 4. Class 39.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Adhesive cement for attaching labels. 418,114; Dec. 4; Serial No. 481,377; published Sept. 25, 1945. Class 5.

Phoenix Flour Mill, Evansville, Ind., to Igleheart Brothers Incorporated, New York, N. Y. Wheat-flour. 46,894; re-renewed Oct. 17, 1945. O. G. Dec. 4. Class 46.

Phoenix Glass Co., The, Pittsburgh, to The Phoenix Glass Co., Monaca, Pa. Glass electric globes and glass shades. 49,741; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 34.

Pilot Electric Manufacturing Company, Inc., The, Brooklyn, to Pilot Radio Corporation, Long Island City, N. Y. Radio receiving sets and parts thereof. 206,973; renewed Dec. 15, 1945. O. G. Dec. 4. Class 21.

Pilot Radio Corporation: *See*—
Pilot Electric Manufacturing Company, Inc., The.

Pittman, Herbert Crawford, Cotulla, to Herbert Crawford Pittman, Tyler, Tex. Fresh vegetables. 208,860; renewed Feb. 9, 1946. O. G. Dec. 4. Class 46.

Plymouth Citrus Growers Association, Plymouth, Fla. Fresh citrus fruits. 418,080; Dec. 4; Serial No. 446,143; published May 29, 1945. Class 46.

Portable Light Co., The, to The Portable Light Co., Inc., New York, N. Y. Searchlights and flash lights. 203,852; renewed Sept. 29, 1945. O. G. Dec. 4. Class 21.

Portable Light Co., Inc., The: *See*—
Portable Light Co., The.

Postum Cereal Co. Limited, Battle Creek, Mich., to General Foods Corporation, New York, N. Y. Food drinks. 27,402; re-renewed Dec. 3, 1945. O. G. Dec. 4. Class 46.

Potter Drug & Chemical Corporation, Boston, to Potter Drug & Chemical Corporation, Malden, Mass. Ointment. 49,573; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 6.

Price, Robert I., doing business as Fountain Service Company, New York, N. Y. Cola-flavored syrup concentrate. 418,156; Dec. 4. Class 45.

Putney, Stephen, Shoe Co., Richmond Va. Boots and shoes. 45,295; re-renewed Aug. 8, 1945. O. G. Dec. 4. Class 39.

Redhill Products, Inwood, Long Island, N. Y. Toys. 418,155; Dec. 4. Class 22.

Rite-way Products Company, Chicago, Ill. Stall cocks. 418,130; Dec. 4; Serial No. 483,875; published Sept. 25, 1945. Class 13.

Roberts, Sidney S., Long Island City, N. Y. Slide fasteners. 418,125; Dec. 4; Serial No. 483,553; published Sept. 25, 1945. Class 13.

Roessler & Hasslacher Chemical Company, The, New York, N. Y., to E. I. du Pont de Nemours and Company, Wilmington, Del. Hexamethylenetetramine, paraformaldehyde, aldehyde, ammonia, etc. 203,176; renewed Sept. 15, 1945. O. G. Dec. 4. Class 6.

Rose-Derry Company, Newton, Mass. Bumper and draft guards. 418,134; Dec. 4; Serial No. 484,426; published Sept. 25, 1945. Class 32.

Roth, Otto, Inc., Newark, N. J., to Colton Razor Blade Company, Boston, Mass. Razor blades and safety-razor blades. 208,419; renewed Feb. 2, 1946. O. G. Dec. 4. Class 23.

Sayles Finishing Plants Inc., to Sayles Finishing Plants, Inc., Sayles, R. I. Cotton piece goods. 208,814; renewed Feb. 9, 1946. O. G. Dec. 4. Class 42.

Schafer, Harold L., doing business as Gold Seal Co., Bismarck, N. Dak. Furniture polish. 418,118; Dec. 4; Serial No. 482,399; published Sept. 25, 1945. Class 16.

Sell's Planned Foods, Inc., New York, N. Y. Liver paste mix. 418,170; Dec. 4. Class 46.

Seybold Paper Company, The, Cincinnati, Ohio. Liquid cleaner for vitreous ware. 418,120; Dec. 4; Serial No. 482,591; published Sept. 25, 1945. Class 4.

Shield, Wm., Mfg. Co., St. Louis, Mo., to B. T. Babbitt, Inc., Albany and New York, N. Y. Cleanser or cleaning, scouring, or washing powder. 207,580; renewed Jan. 5, 1946. O. G. Dec. 4. Class 4.

Simplex Shoe Manufacturing Company, Milwaukee, Wis. Leather shoes. 202,732–3; renewed Sept. 1, 1945. O. G. Dec. 4. Class 39.

Sonneborn, L., Sons, Inc., New York, N. Y. Preparation for removing varnish from floors. 418,109; Dec. 4; Serial No. 480,201; published Sept. 25, 1945. Class 16.

Spenada Company: *See*—
Spencer-Adams Paint Company.

Spencer-Adams Paint Company, trading as Spenada Company, Atlanta, Ga. Paint enamels. 418,122; Dec. 4; Serial No. 483,121; published Sept. 25, 1945. Class 16.

Staffin Johns Co., Chicago, Ill. Mattresses. 418,158; Dec. 4. Class 32.

Staley, A. E., Manufacturing Co: *See*—
Celluloid Starch Company, The.

Sterling Drug Inc.: *See*—
Bayer Company, Inc., The.
California Fig Syrup Co.

Stern, L. & H., Inc., Brooklyn, N. Y. Smoking pipes, cigar holders, and cigarette holders. 208,736; renewed Feb. 9, 1946. O. G. Dec. 4. Class 8.

Stor-Aid, Inc., New York, N. Y. Containers. 418,112; Dec. 4; Serial No. 480,803; published Sept. 25, 1945. Class 2.

Street & Smith Publications, Inc., New York, N. Y. Section in a periodical publication. 418,176; Dec. 4. Class 38.

Sullivan Company, The: *See*—
Sullivan, F. Daly.

Sullivan, F. Daly, doing business as The Sullivan Company, to The Sullivan Company, Memphis, Tenn. Chemical compound. 204,935; renewed Oct. 27, 1945. O. G. Dec. 4. Class 6.

Superior Hat Co., to Caradine Hat Company, St. Louis, Mo. Harvest, outing, and sport hats. 206,797; renewed Dec. 8, 1945. O. G. Dec. 4. Class 39.

Technical Color & Chemical Works: *See*—
Greenbaum, Harry L.

Technical Color and Chemical Works, Inc.: *See*—
Greenbaum, Harry L.

Thompson, Richard R.: *See*—
Eureka Springs Water Co.
Titanine, Inc., Union, N. J. Ready mixed paints and lacquers. 418,104; Dec. 4; Serial No. 478,193; published May 15, 1945. Class 16.
Turner, Grover B., Indianapolis, Ind. Dolls. 418,135; Dec. 4; Serial No. 484,470; published Sept. 25, 1945. Class 22.
Van Brunt Manufacturing Company, The, Horicon, Wis. Grain drills and seeders. 47,918; re-renewed Nov. 28, 1945. O. G. Dec. 4. Class 23.
Vic Cleaning Machine Co., Minneapolis, Minn. Industrial dry cleaning and industrial laundry machines. 418,097; Dec. 4; Serial No. 475,407; published Aug. 28, 1945. Class 24.
Wahl, M., & Son, doing business as Wahlson Co., New York, N. Y. Pads used in permanent hair waving. 418,136; Dec. 4; Serial No. 484,473; published Sept. 25, 1945. Class 44.
Wahlson Co.: *See*—
Wahl, M., & Son.
Wait Associates, Inc., The, New York, N. Y. Composition formed principally of ground slag. 418,139; Dec. 4; Serial No. 484,865; published Sept. 11, 1945. Class 12.
Waitt & Bond, Inc., Newark, N. J. Cigars. 207,483; renewed Jan. 5, 1946. O. G. Dec. 4. Class 17.
Warren Tool and Forge Co., The, Warren, Ohio. Adzes. 208,516; renewed Feb. 2, 1946. O. G. Dec. 4. Class 23.
Weber Lifeline Fly Co., The: *See*—
Frost Fishing Tackle Company.
Weiss & Zahler, to Zahler Bros. Inc., New York, N. Y. Mufflers. 207,229; renewed Dec. 22, 1945. O. G. Dec. 4. Class 39.
Whitman Grocery Company, Orange, Mass., to Minute Tapioca Company, Inc., New York, N. Y. Prepared gelatin. 48,295; re-renewed Dec. 19, 1945. O. G. Dec. 4. Class 46.
Whitman Grocery Company, Orange, Mass., to Minute Tapioca Company, Inc., New York, N. Y. Prepared tapioca. 48,387; re-renewed Dec. 26, 1945. O. G. Dec. 4. Class 46.
Wiard Plow Company, Batavia, N. Y. Plows, cultivators, rollers, and harrows. 49,608; re-renewed Feb. 13, 1946. O. G. Dec. 4. Class 23.
Winckler & Smith Citrus Products Company, Anaheim, Calif. Canned citrus juices. 418,137; Dec. 4; Serial No. 484,513; published Sept. 25, 1945. Class 46.
Wirth, Anthony F., Cleveland, Ohio. Paint brushes. 418,127; Dec. 4; Serial No. 483,708; published Sept. 25, 1945. Class 29.
Wolf Brand Products: *See*—
Davis, Lyman T.
Wright's Underwear Company, Inc.: *See*—
Glastonbury Knitting Company.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Sodium silicate composition. 418,177; Dec. 4. Class 4.
Ybry, Inc., to Ybry, Inc., New York, N. Y. Perfumes, toilet water, face and talcum powders, etc. 208,726; renewed Feb. 9, 1946. O. G. Dec. 4. Class 6.
Zahler Bros. Inc.: *See*—
Weiss & Zahler.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Materials comprising diatomaceous earth or infusorial earth, etc. Celite Products Co. 206,241; renewed Nov. 24, 1945. O. G. Dec. 4.

## CLASS 2

Boxes and cartons. Lord Baltimore Press. 418,100; Dec. 4; Serial No. 476,808; published Sept. 25, 1945.
Cartons, Paper. Marathon Corporation. 418,142; Dec. 4; Serial No. 485,509; published Sept. 25, 1945.
Containers. Stor-Aid, Inc. 418,112; Dec. 4; Serial No. 480,803; published Sept. 25, 1945.

## CLASS 3

Handbags. Bostonian Manufacturing Company. 418,140; Dec. 4; Serial No. 484,932; published Sept. 25, 1945.

## CLASS 4

Cleaner for vitreous ware, Liquid. Seybold Paper Company. 418,120; Dec. 4; Serial No. 482,591; published Sept. 25, 1945.
Cleansing preparation with water-softening properties, General. Pennsylvania Salt Manufacturing Company. 202,019; renewed Aug. 13, 1945. O. G. Dec. 4.
Powder, Cleanser or cleaning, scouring, or washing. Wm. Schield Mfg. Co. 207,580; renewed Jan. 5, 1946. O. G. Dec. 4.
Shave cream and shave soap, Brushless. Garay Toiletries, Inc. 418,131; Dec. 4; Serial No. 483,967; published Sept. 25, 1945.
Soap. National Cocoanut Soap Co. 204,872; renewed Oct. 27, 1945. O. G. Dec. 4.
Soap, Toilet. Mülhens & Kropff. 45,428; re-renewed Aug. 15, 1945. O. G. Dec. 4.
Soap, Toilet. Mülhens & Kropff. 45,709; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Sodium silicate composition. Wyandotte Chemicals Corporation. 418,177; Dec. 4.

## CLASS 5

Adhesive material in liquid form. Packaging Industries Limited. 418,121; Dec. 4; Serial No. 482,697; published Sept. 25, 1945.
Cement for attaching labels, Adhesive. Phelan-Faust Paint Mfg. Co. 418,114; Dec. 4; Serial No. 481,377; published Sept. 25, 1945.

## CLASS 6

Acid, Bismarck brown aniline, electric-bulb coloring, etc., Oxalic. H. L. Greenbaum. 208,110; renewed Jan. 19, 1946. O. G. Dec. 4.
Agents for destroying parasites. Actien-Gesellschaft für Anilin-Fabrikation. 202,205; renewed Aug. 18, 1945. O. G. Dec. 4.
Antiseptic fluid for internal and external use. Mülhen & Kropff. 44,947; re-renewed Aug. 1, 1945. O. G. Dec. 4.
Cakes of refined naphthalene with camphor. Koppers Company, Inc. 418,171; Dec. 4.
Chemical compound. F. Daly Sullivan. 204,935; renewed Oct. 27, 1945. O. G. Dec. 4.
Chemicals for destroying vermin, animal, and plant pests. Deutsche Gold- und Silber-Schneideanstalt vormals Roessler. 201,635; renewed Aug. 4, 1945. O. G. Dec. 4.
Chewing gum containing chlorophyll carotenoids complex and brewers' yeast. Frank H. Fleer Corporation. 418,159; Dec. 4.
Cologne water, Florida water, and perfumery. Mülhens & Kropff. 45,617; re-renewed Aug. 22, 1945. O. G. Dec. 4.
Creams, Face and body. Elizabeth Arden Sales Corporation. 418,183; Dec. 4.
Creams, Face and body. Elizabeth Arden Sales Corporation. 418,187; Dec. 4.
Deodorant. Air Treatment Corp. of America. 418,149; Dec. 4.
Deodorizer. Howell Company, Inc. 418,164; Dec. 4.
Hair tonic. Mülhens & Kropff. 45,775; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Hexamethylenetetramine, paraformaldehyde, aldehyde ammonia, etc. Roessler & Hasslacher Chemical Company. 203,176; renewed Sept. 15, 1945. O. G. Dec. 4.
Lipsticks, face powder, hand lotion, etc. Consolidated Cosmetics. 418,188; Dec. 4.
Lipsticks, facial make-up, face powder, and perfumes. Consolidated Cosmetics. 418,184; Dec. 4.
Liquid preparation used as a remedy for ring-bone, spavin, splint, etc. Dr. B. J. Kendall Company. 45,698; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Liquid purgative compounds. California Fig Syrup Co. 49,561; re-renewed Feb. 13, 1946. O. G. Dec. 4.
Lotion, After-shaving. Boston Drug & Chemical Co. 418,173; Dec. 4.
Medicinal preparation. Fairchild Bros. and Foster. 418,163; Dec. 4.
Medicinal preparations containing the nutritive elements of grain. Maltine Company. 48,761; re-renewed Jan. 9, 1946. O. G. Dec. 4.
Oil for the treatment of rheumatism. A. Rockford Lewis. 208,222; renewed Jan. 19, 1945. O. G. Dec. 4.
Ointment. Potter Drug & Chemical Corporation. 49,573; re-renewed Feb. 13, 1946. O. G. Dec. 4.
Ointment for treatment of the skin. G. W. Annis. 418,157; Dec. 4.
Perfume. M. C. A. Decker. 418,174; Dec. 4.
Perfumery. Mülhens & Kropff. 45,743; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Perfumes and toilet-water. Mülhens & Kropff. 45,479; re-renewed Aug. 22, 1945. O. G. Dec. 4.
Powders for use as a remedy for cattle and horses. Dr. B. J. Kendall Company. 45,697; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Preparations for treating textile fibers and fabrics. Chemische Fabrik Pott & Co. 202,957; renewed Sept. 8, 1945. O. G. Dec. 4.
Remedy for the cure of dyspepsia and indigestion. U. B. Kline. 45,784; re-renewed Aug. 29, 1945. O. G. Dec. 4.
Rodenticides. Bayer Company, Inc. 208,439; renewed Feb. 2, 1946. O. G. Dec. 4.
Starch, Laundry. Celluloid Starch Company. 49,688–9; re-renewed Feb. 13, 1946. O. G. Dec. 4.
Toilet water, face and talcum powders, etc., Perfumes. Ybry, Inc. 208,726; renewed Feb. 9, 1946. O. G. Dec. 4.

## CLASS 8

Pipes, cigar holders, and cigarette holders, Smoking. L. & H. Stern, Inc. 206,736; renewed Feb. 9, 1946. O. G. Dec. 4.



## CLASS 12

Composition formed principally of ground slag. Wait Associates, Inc. 418,139; Dec. 4; Serial No. 484,865; published Sept. 11, 1945.
Insulation, Thermal and acoustic. Owens-Corning Fiberglas Corporation. 418,151; Dec. 4.
Pipe covering, Sectional. Johns-Manville, Incorporated. 204,576; renewed Oct. 20, 1945. O. G. Dec. 4.
Plywood. Harbor Plywood Corporation. 418,092; Dec. 4; Serial No. 474,077; published Sept. 25, 1945.
Wall finish used for acoustical correction, Decorative. Celotex Company. 203,689; renewed Sept. 22, 1945. O. G. Dec. 4.

## CLASS 13

Bolts, nuts, rivets, etc. National Screw & Manufacturing Company, The. 418,101; Dec. 4; Serial No. 476,815; published Sept. 18, 1945.
Clamps, Hose. Aircraft Standard Parts Company. 418,083; Dec. 4; Serial No. 464,498; published Sept. 25, 1945.
Cocks, Stall. Rite-Way Products Company. 418,130; Dec. 4; Serial No. 483,875; published Sept. 25, 1945.
Fasteners, Slide. S. S. Roberts. 418,125; Dec. 4; Serial No. 483,553; published Sept. 25, 1945.
Pump governors; excess or differential pump governors, pressure reducing valves, etc., Constant. Fisher Governor Company. 418,084; Dec. 4; Serial No. 470,178; published Sept. 18, 1945.
Valves and parts of valves and cocks and parts of cocks. A. B. Jenkins. 48,373; re-renewed Dec. 26, 1945. O. G. Dec. 4.

## CLASS 14

Metal and alloys. Lithaloys Corporation. 418,102; Dec. 4; Serial No. 477,333; published Sept. 25, 1945.

## CLASS 15

Greases, Lubricating. D–A Lubricant Company. 208,213; renewed Jan. 19, 1945. O. G. Dec. 4.
Lubricants and greases, Liquid and semi-solid anti-friction bearing. American Oil & Supply Company. 418,161; Dec. 4.
Lubricants, Liquid and semi-solid gear. American Oil & Supply Company. 418,162; Dec. 4.
Oils and greases, Lubricating. Glido Oil & Chemical Company, Inc. 201,220; renewed July 21, 1945.

## CLASS 16

Cleaner and polish, Bowling alley. Brunswick-Balke-Collender Company. 418,148; Dec. 4.
Cleaning, glazing and polishing material, Liquid. C. D. Chapman. 418,126; Dec. 4; Serial No. 483,654; published Sept. 25, 1945.
Enamels, Paint. Spencer-Adams Paint Company. 418,122; Dec. 4; Serial No. 483,121; published Sept. 25, 1945.
Paints. D. Birk. 418,096; Dec. 4; Serial No. 474,529; published Feb. 20, 1945.
Paints and lacquers, Ready mixed. Titanine, Inc. 418,104; Dec. 4; Serial No. 478,193; published May 15, 1945.
Paints and varnishes of all kinds. M. Buten & Sons. 207,050; renewed Dec. 15, 1945. O. G. Dec. 4.
Paints, paint enamels, varnish, etc., Ready-mixed. H. Behlen & Bro., Inc. 418,093; Dec. 4; Serial No. 474,190; published Jan. 23, 1945.
Paints, varnishes, paint enamels, etc., Ready-mixed. Oakes & Co. 418,111; Dec. 4; Serial No. 480,611; published Sept. 25, 1945.
Polish for varnished, painted, lacquered and enameled surfaces. Minnesota Mining & Manufacturing Company. 418,129; Dec. 4; Serial No. 483,778; published Sept. 18, 1945.
Polish, Furniture. H. L. Schafer. 418,118; Dec. 4; Serial No. 482,399; published Sept. 25, 1945.
Preparation for removing varnish from floors. L. Sonneborn Sons, Inc. 418,109; Dec. 4; Serial No. 480,201; published Sept. 25, 1945.
Products in liquid form. Diversey Corporaiton. 418,098; Dec. 4; Serial No. 475,557; published Sept. 18, 1945.
Shellac, banana bronzing liquids, hard wax polish, etc., Prepared. H. L. Greenbaum. 207,016; renewed Dec. 15, 1945. O. G. Dec. 4.
Wax compositions. A. Aufhauser. 418,128; Dec. 4; Serial No. 483,756; published Sept. 18, 1945.
Wetting and dispersing agents. Nuodex Products Co. Inc. 418,113; Dec. 4; Serial No. 481,121; published Sept. 18, 1945.

## CLASS 17

Cigars. Bayuk Cigars Incorporated. 208,451; renewed Feb. 2, 1946. O. G. Dec. 4.
Cigars. Waitt & Bond, Inc. 207,483; renewed Jan. 5, 1946. O. G. Dec. 4.
Cigars, Havana. Havana Commercial Company. 49,375; re-renewed Feb. 6, 1945. O. G. Dec. 4.

## CLASS 19

Airplanes and structural parts thereof. Curtiss-Wright Corporation. 418,103; Dec. 4; Serial No. 478,112; published Sept. 11, 1945.

## CLASS 21

Electric-lighting fixtures, electric desk lamps, electric dresser lamps, etc., Portable. H. G. McFaddin & Co. 208,901; renewed Feb. 9, 1946. O. G. Dec. 4.
Radio receiving sets and parts thereof. Pilot Electric Manufacturing Company, Inc. 206,973; renewed Dec. 17, 1945. O. G. Dec. 4.
Searchlights and flash lights, Portable Light Co. 203,852; renewed Sept. 29, 1945. O. G. Dec. 4.

## CLASS 22

Bowling-alley pin setters and supplies and equipment therefor. Brunswick-Balke-Collender Company. 208,402; renewed Feb. 2, 1946. O. G. Dec. 4.
Dolls. G. B. Turner. 418,135; Dec. 4; Serial No. 484,470; published Sept. 25, 1945.
Dolls and table tennis balls. L. A. Goodman Manufacturing Company. 418,119; Dec. 4; Serial No. 482,570; published Sept. 25, 1945.
Fishing rods and fishing reels. H. Lawson. 418,169; Dec. 4.
Fishing tackle. Frost Fishing Tackle Company. 208,417; renewed Feb. 2, 1946. O. G. Dec. 4.
Game boards. Mevi Incorporated. 418,116; Dec. 4; Serial No. 482,110; published Sept. 25, 1945.
Toy boats and toy airplanes. Harvey Machine Co., Inc. 418,106; Dec. 4; Serial No. 479,124; published 25, 1945.
Toys. Redhill Products. 418,155; Dec. 4.
Toys, Assembled. Little Elmer Toy Company. 418,144; Dec. 4; Serial No. 485,731; published Sept. 25, 1945.
Toys, Stuffed. Jolly Toys, Inc. 418,099; Dec. 4; Serial No. 476,292; published Jan. 30, 1945.

## CLASS 23

Adzes. Warren Tool and Forge Co. 208,516; renewed Feb. 2, 1946. O. G. Dec. 4.
Drills and seeders, Grain. Van Brunt Manufacturing Company. 47,918; re-renewed Nov. 28, 1945. O. G. Dec. 4.
Plows, cultivators, rollers, and harrows. Wiard Plow Company. 49,608; re-renewed Feb. 13, 1946. O. G. Dec. 4.
Razor blades and safety-razor blades. Otto Roth, Inc. 208,419; renewed Feb. 2, 1946. O. G. Dec. 4.
Strand-examining machines. Cheney Brothers. 202,456; renewed Aug. 25, 1945. O. G. Dec. 4.

## CLASS 24

Cleaning and industrial laundry machines, Industrial dry. Vic Cleaning Machine Co. 418,097; Dec. 4; Serial No. 475,407; published Aug. 28, 1945.
Clothes line reels. M. D. Joyce. 418,108; Dec. 4; Serial No. 479,482; published Sept. 25, 1945.

## CLASS 26

Aviation training apparatus, Power operated. American Automatic Typewriter Co. 418,117; Dec. 4; Serial No. 482,235; published Sept. 25, 1945.
Motion picture productions. C. Dudley. 418,110; Dec. 4; Serial No. 480,280; published Sept. 25, 1945.

## CLASS 27

Watches. Lamont Watch Corporation. 418,160; Dec. 4.

## CLASS 28

Containers, sold empty, Small. W. Lampl. 418,150; Dec. 4.
Buttons, cuff links, buckles, etc., Cuff. B. A. Ballou & Co. Incorporated. 208,865; renewed Feb. 9, 1945. O. G. Dec. 4.

## CLASS 29

Brushes, Paint. A. F. Wirth. 418,127; Dec. 4; Serial No. 483,708; published Sept. 25, 1945.
Brushes, Tooth. Kroger Grocery and Baking Company. 418,090; Dec. 4; Serial No. 473,254; published Sept. 18, 1945.

## CLASS 31

Material having selective absorptive properties, Finely-divided solid. Celite Products Company. 206,291; renewed Nov. 24, 1945. O. G. Dec. 4.
Refrigerating apparatus. Moffats Limited. 418,115; Dec. 4; Serial No. 481,419; published Sept. 25, 1945.
Refrigerators and parts thereof, etc., Electrical and mechanical. General Aircraft Equipment, Inc. 418,124; Dec. 4; Serial No. 483,524; published Sept. 25, 1945.

## CLASS 32

Cabinets, Kitchen. Carr, Adams & Collier Company. 418,143; Dec. 4; Serial No. 485,721; published Sept. 25, 1945.
Furniture. N. S. Ancell. 418,107; Dec. 4; Serial No. 479,411; published Sept. 25, 1945.
Guards, Bumper and draft. Rose-Derry Company. 418,134; Dec. 4; Serial No. 484,426; published Sept. 25, 1945.
Mattresses. Staffin Johns Co. 418,158; Dec. 4.

## CLASS 34

Filters, air filtration pads and mats, etc., Air. Owens-Corning Fiberglas Corporation. 418,152; Dec. 4.

Generators and boiler-burner units therefor, etc., Steam and hot water. General Furnaces Corporation. 418,081; Dec. 4; Serial No. 455,624; published May 15, 1945.
Globes and glass shades, Glass electric. Phoenix Glass Co. 49,741; re-renewed Feb. 13, 1946. O. G. Dec. 4.
Heaters, Water. General Water Heater Corporation. 418,085–6; Dec. 4; Serial Nos. 470,303–4; published Sept. 25, 1945.
Heating apparatus. Gorton & Lidgerwood Co. 206,466; renewed Dec. 1, 1945. O. G. Dec. 4.
Lighters, Pyrophoric cigarette, cigar and pipe. Bor-Lenz Enterprises. 418,132; Dec. 4; Serial No. 484,159; published Sept. 4, 1945.
Tubing, Finned. Cabinet and Hecla Consolidated Copper Company. 418,091; Dec. 4; Serial No. 473,902; published May 15, 1945.

CLASS 37

Paper, Printed craft. Central States Paper Distributing Co. 208,558; renewed Feb. 2, 1946. O. G. Dec. 4.

CLASS 38

Comic strip. Newspaper PM, Inc. 418,179; Dec. 4.
Magazine. Columbia Publications, Inc. 418,146–7; Dec. 4.
Section in a periodical publication. Street & Smith Publications, Inc. 418,176; Dec. 4.

CLASS 39

Boots and shoes. Stephen Putney Shoe Co. 45,295; re-renewed Aug. 8, 1945. O. G. Dec. 4.
Dresses, Ladies'. Goodman-Scheinhorn. 418,154; Dec. 4.
Garment, Combination. Model Brassiere Co. Inc. 207,932; renewed Jan. 12, 1946. O. G. Dec. 4.
Hats, Harvest, outing, and sport. Superior Hat Co. 206,797; renewed Dec. 8, 1945. O. G. Dec. 4.
Hats, Straw. Caradine Harvest Hat Company. 206,813; renewed Dec. 8, 1945. O. G. Dec. 4.
Hosiery. Pennsylvania Silk Hosiery Mills, Inc. 203,934; renewed Sept. 29, 1945. O. G. Dec. 4.
Mufflers. Weiss & Zahler. 207,229; renewed Dec. 22, 1945. O. G. Dec. 4.
Ribbons, trimmings, dress material, etc. Jones Brothers & Co. 27,170; re-renewed Nov. 5, 1945. O. G. Dec. 4.
Shoes, Leather. Simplex Shoe Manufacturing Company. 202,732–3; renewed Sept. 1, 1945. O. G. Dec. 4.
Underwear, Knitted. Glastonbury Knitting Company. 49,768; re-renewed Feb. 13, 1946. O. G. Dec. 4.

CLASS 40

Needles. C. H. Crowley. 49,431; re-renewed Feb. 6, 1946. O. G. Dec. 4.
Ribbons, trimmings, dress material, etc. Jones Brothers & Co. 27,170; re-renewed Nov. 5, 1945. O. G. Dec. 4.

CLASS 42

Cotton piece goods. Jackson Company. 49,437; re-renewed Feb. 6, 1946. O. G. Dec. 4.
Cotton piece goods. Pacolet Mfg. Co. 208,699; re-newed Feb. 9, 1946. O. G. Dec. 4.
Cotton piece goods. Sayles Finishing Plants Inc. 208,814; renewed Feb. 9, 1946. O. G. Dec. 4.
Ribbons, trimmings, dress material, etc. Jones Brothers & Co. 27,170; re-renewed Nov. 5, 1945. O. G. Dec. 4.
Textile, and pile fabrics in the piece, Woven, knitted, netted. Cheney Brothers. 201,948; renewed Aug. 11, 1945. O. G. Dec. 4.
Textile, and pile fabrics in the piece, Woven, knitted, netted. Cheney Brothers. 202,303–4; renewed Aug. 18, 1945. O. G. Dec. 4.
Textile and pile fabrics in the piece, Woven, knitted, netted. Cheney Brothers. 203,532; renewed Sept. 22, 1945. O. G. Dec. 4.
Textile, and pile fabrics in the piece, Woven, knitted, netted. Cheney Brothers. 203,635; renewed Sept. 22, 1945. O. G. Dec. 4.
Woolen dress goods. Atlantic Mills. 205,827; renewed Nov. 17, 1945. O. G. Dec. 4.

CLASS 44

Apparatus for irrigating the human bowels. R. W. De Welles. 418,166; Dec. 4.
Denture material, Acrylic. Carlisle & Swope. 418,087; Dec. 4; Serial No. 470,481; published Mar. 6, 1945.
Denture refitting or lining material. R. McC. Patterson. 418,082; Dec. 4; Serial No. 463,820; published Sept. 25, 1945.
Glass articles. Corning Glass Works. 418,095; Dec. 4; Serial No. 474,481; published Sept. 25, 1945.
Napkins, Sanitary. Graham Paper Company. 418,186; Dec. 4.
Pads, electric hair dryers, electric vibratory outfits, etc., Electric heating. National Stamping & Electric Works. 418,094; Dec. 4; Serial No. 474,344; published Sept. 25, 1945.
Pads used in permanent hair waving. M. Wahl & Son. 418,136; Dec. 4; Serial No. 484,473; published Sept. 25, 1945.
Respirators. Columbian Steel Tank Company. 418,105; Dec. 4; Serial No. 478,498; published Sept. 25, 1945.
Ribbons, trimmings, dress material, etc. Jones Brothers & Co. 27,170; re-renewed Nov. 5, 1945. O. G. Dec. 4.
Supports, sacro-iliac supports, abdominal supports, etc., Ptosis. I. Kantor. 418,138; Dec. 4; Serial No. 484,745; published Sept. 25, 1945.
Therapeutic apparatus for imparting gyratory impulse to the human body. Niagara Units, Inc. 418,123; Dec. 4; Serial No. 483,198; published Sept. 25, 1945.

CLASS 45

Beverages, Nonalcoholic. Exchange Orange Products Company. 208,518; renewed Feb. 2, 1946. O. G. Dec. 4.
Mineral water. Eureka Springs Water Co. 46,314; re-renewed Sept. 13, 1945. O. G. Dec. 4.
Syrup concentrate, Cola-flavored. R. I. Price. 418,156; Dec. 4.
Syrups and bottled root beer, Root beer fountain. Lyons-Magnus, Inc. 418,175; Dec. 4.

CLASS 46

Apples and peaches, Fresh. Associated Fruit Company, 200,970; renewed July 14, 1945. O. G. Dec. 4.
Apples, Fresh. Associated Fruit Company. 201,024; re-newed July 14, 1945. O. G. Dec. 4.
Beans, Dry edible. Geo. F. Martin & Company. 418,153; Dec. 4.
Biscuits, canned dog food, and dog meal, Dog. Kennel Food Supply Company. 418,133; Dec. 4; Serial No. 484,410; published Sept. 25, 1945.
Biscuits, crackers, and wafers. Hitchner Biscuit Co. 49,547; re-renewed Feb. 6, 1946. O. G. Dec. 4.
Candy. E. Beltscher. 418,167; Dec. 4.
Candy, Bonita Co. 202,459; renewed Aug. 25, 1945. O. G. Dec. 4.
Candy. E. A. Hoffman Candy Co. 207,146; renewed Dec. 22, 1945. O. G. Dec. 4.
Candy. E. A. Hoffman Candy Co., Inc. 201,350; renewed July 21, 1945. O. G. Dec. 4.
Canned chili made of beef. L. T. Davis. 203,858; re-newed Sept. 29, 1945. O. G. Dec. 4.
Canned citrus juices. Winckler & Smith Citrus Prod-ucts Company. 418,137; Dec. 4; Serial No. 484,513; published Sept. 25, 1945.
Canned flaked fish, canned sea mussels, and canned sea-food chowder-mix. North Atlantic Packing Company. 418,185; Dec. 4.
Canned salmon. Booth Fisheries Company. 202,901; renewed Sept. 8, 1945. O. G. Dec. 4.
Canned salmon. Emel Packing Company. 201,977; re-newed Aug. 11, 1945. O. G. Dec. 4.
Canned salmon. J. T. Lair. 418,172; Dec. 4.
Cheese. Davis Bros. Cheese Co. 205,082; renewed Nov. 3, 1945. O. G. Dec. 4.
Coconut, Prepared. Franklin Baker Company. 206,884; renewed Dec. 15, 1945. O. G. Dec. 4.
Coffee. Crescent Manufacturing Co. 49,068; re-renewed Jan. 23, 1946. O. G. Dec. 4.
Coffee. Durgin-Park. 418,145; Dec. 4.
Dressing, French. J. D. Mullen. 418,178; Dec. 4.
Extracts, Flavoring. Crescent Manufacturing Co. 48,449; re-renewed Jan. 2, 1945. O. G. Dec. 4.
Feed for baby chicks. Honeggers' & Co. 418,165; Dec. 4.
Food drinks. Postum Cereal Co., Limited. 27,402; re-renewed Dec. 3, 1945. O. G. Dec. 4.
Fruits, Fresh citrus. Knapp, Sherriff & Koelle. 418,168; Dec. 4.
Fruits, Fresh citrus. Plymouth Citrus Growers Associa-tion. 418,080; Dec. 4; Serial No. 446,143; published May 29, 1945.
Gelatin, Prepared. Whitman Grocery Company. 48,295; renewed Dec. 19, 1945. O. G. Dec. 4.
Grapes, Pears, pluma, etc., Fresh. M. Gilbert. 208,292; renewed Jan. 26, 1946. O. G. Dec. 4.
Liver paste mix. Sell's Planned Foods, Inc. 418,170; Dec. 4.
Meat products, bakery products, coffee, etc. Nedick's Stores, Inc. 418,088; Dec. 4; Serial No. 471,165; pub-lished Sept. 25, 1945.
Peanut butter. Jewett & Sherman Co. 418,181; Dec. 4.
Rice. Louisiana State Rice Milling Company, Inc. 418,089; Dec. 4; Serial No. 472,570; published Sept. 25, 1945.
Salt for table, cooking, dairy, and general household uses. Diamond Crystal Salt Co. 48,072; re-renewed Dec. 5, 1945. O. G. Dec. 4.
Sandwich dressing, mayonnaise, thousand island dressing. A. N. Adler. 206,405; renewed Dec. 1, 1945. O. G. Dec. 4.
Tapioca, Prepared. Whitman Grocery Company. 48,387; re-renewed Dec. 26, 1945. O. G. Dec. 4.
Vegetables, Fresh. T. J. Matulich. 418,180; Dec. 4.
Vegetables, Fresh. R. E. Myers. 418,141; Dec. 4; Serial No. 485,093; published Sept. 25, 1945.
Vegetables, Fresh. H. C. Pittman. 208,860; renewed Feb. 9, 1946. O. G. Dec. 4.
Vinegar, white vinegar, prepared mustard, Cider. Cres-cent Bottling Works. 206,008; renewed Nov. 24, 1945. O. G. Dec. 4.
Wheat-flour. Phoenix Flour Mill. 46,894; re-renewed Oct. 17, 1945. O. G. Dec. 4.

CLASS 47

Wines. Padre Vineyard Company. 418,182; Dec. 4.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Davidson Manufacturing Corporation: *See*—
Davidson, William W., assignor.
Davidson, William W., Evanston, assignor to Davidson Manufacturing Corporation, Chicago, Ill. Printing press. Re. 22,702; Dec. 4.
Dow Company, The: *See*—
Kelly, E. M., Kivari, Kite, Roberts, and Sutherland, assignors.
Geigy, J. R., A. G.: *See*—
Müller, Paul, assignor.
Kelly, Earl M., and A. M. Kivari, Los Angeles, Calif., R. P. Kite, Larchmont, N. Y., E. J. Roberts, Westport, Conn., and D. B. Sutherland, Montclair, N. J., assignors to The Dow Company. Liquid clarification. Re. 22,701; Dec. 4.
Kite, Robert P.: *See*—
Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.
Kivari, Arthur M.: *See*—
Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.
Müller, Paul, assignor to the Firm J. R. Geigy A. G., Basel, Switzerland. Devitalizing composition of matter. Re. 22,700; Dec. 4.
Roberts, Elliott J.: *See*—
Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.
Sutherland, David B.: *See*—
Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.

# LIST OF DESIGN PATENTEES

American Optical Company: *See*—
Geis, L., and Metzler, assignors.
Bastian-Blessing Company, The: *See*—
Connell, William S., assignor.
Beaver Pipe Tools, Inc.: *See*—
Phillis, William A., assignor.
Belknap, Eugene M., et al.: *See*—
Coble, Earl W., assignor.
Casalino, Joseph, Forest Hills Gardens, assignor to Nuvo-plas Corporation, New York, N. Y. Compact. 143,058; Dec. 4.
Case, W. A., and Son Manufacturing Company: *See*—
Young, Willard G., assignor.
Clover Manufacturing Co.: *See*—
Gallaher, Edward B., assignor.
Coble, Earl W., Waterville, assignor to D. W. Moor, Jr., and E. M. Belknap, Toledo, Ohio. Hand toy. 143,059; Dec. 4.
Connell, William S., Norwood Park Township, Cook County, assignor to The Bastian-Blessing Company, Chicago, Ill. Refrigerator panel. 143,060; Dec. 4.
Creed, George J., Milton, assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent lighting fix-ture. 143,061; Dec. 4.
Cutler, Elizabeth, New York, N. Y. Dress. 143,062; Dec. 4.
Cutler, Elizabeth, New York, N. Y. Dress. 143,063; Dec. 4.
Cutler, Elizabeth, New York, N. Y. Dress. 143,064; Dec. 4.
Cutler, Elizabeth, New York, N. Y. Dress. 143,065; Dec. 4.
Enger-Kress Company: *See*—
Pence, William A., assignor.
Gallaher, Edward B., assignor to Clover Manufacturing Co., Norwalk, Conn. Display stand for grinding wheels and similar articles. 143,066; Dec. 4.
Geis, Lester, New York, N. Y., and C. L. Metzler, Palisades Park, N. J., assignors to American Optical Company, Southbridge, Mass. Projector. 143,067; Dec. 4.
Glad, Jack, New York, N. Y. Dress. 143,068; Dec. 4.
Glad, Jack, New York, N. Y. Dress. 143,069; Dec. 4.
Glad, Jack, New York, N. Y. Dress. 143,070; Dec. 4.
Glad, Jack, New York, N. Y. Dress. 143,071; Dec. 4.
Grand Specialties Company: *See*—
Sagen, Anthony M., assignor.
Helke, Gustav A., Mondovi, Wis. Sign. 143,072; Dec. 4.
Helfenbein, Richard C.: *See*—
Zabel, W. C. P., and Helfenbein.
Hiltenbrand, Frank X., Weehawken, N. J., assignor to Harry Rosenfeld Co., New York, N. Y. Handbag. 143,073; Dec. 4.
Hovey, C. Earl: *See*—
Maulsby, John D., Jr., assignor.
Ingle, John J., Colville, Wash. Dental press. 143,074; Dec. 4.
Ingwer, Carl H., Elyria, Ohio. Pipe cutting tool. 143,075; Dec. 4.
Joesting, Harry F.: *See*—
Le Claire, Eugene J., assignor.
Kellerman, Murray, Brooklyn, N. Y. Toy musical merry-go-round. 143,076; Dec. 4.
Kimball, Donald E., Cleveland Heights, Ohio. Eye shield. 143,077; Dec. 4.
Langan, Thomas, Annapolis, Md. Bilge pump or similar article. 143,078; Dec. 4.
Langan, Thomas, Annapolis, Md. Bilge pump or similar article. 143,079; Dec. 4.
Lear, Incorporated: *See*—
Lear, W. P., and Wehner, assignors.
Lear, William P., North Hollywood, and J. M. Wehner, Culver City, Calif., assignors to Lear, Incorporated, Piqua, Ohio. Automatic actuator for airplane wing flaps. 143,080; Dec. 4.
Le Claire, Eugene J., assignor to H. F. Joesting, St. Paul, Minn. Combined pressure cooker door and securing apparatus. 143,081; Dec. 4.
Leser, Tina, New York, N. Y. Bathing suit. 143,082; Dec. 4.
Lewis, William H., Altadena, Calif. Road broom frame. 143,083; Dec. 4.
Littlefield, John B., Mahanoy City, J. H. Schneider, Irwin, and W. P. Yant, Murraysville, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Breathing ap-paratus. 143,084; Dec. 4.
Littlefield, John B., Mahanoy City, J. H. Schneider, Irwin, and W. P. Yant, Murraysville, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Breathing ap-paratus. 143,085; Dec. 4.
Lowdermilk, Elbert, Denver, Colo. Nut bowl. 143,086; Dec. 4.
Maid, Herbert R., Berwyn, Ill. Pipe. 143,087; Dec. 4.
Maulsby, John D., Jr., assignor to C. E. Hovey, trustee, Kansas City, Mo. Combined battery tester and charger. 143,088; Dec. 4.
Metzler, Charles L.: *See*—
Geis, L., and Metzler.
Mills, Aubrey R., Southgate, England. Die casting ma-chine. 143,089; Dec. 4.
Mine Safety Appliances Company: *See*—
Littlefield, J. B., Schneider, and Yant, assignors.
Schneider, John H., assignor.
Moor, Dudley W., Jr., et al.: *See*—
Coble, Earl W., assignor.
Mullins Manufacturing Corporation: *See*—
Stanitz, Jacques, assignor.
Nelson, Ted, San Leandro, Calif. Stud welding machine. 143,090; Dec. 4.
Nuvoplas Corporation: *See*—
Casalino, Joseph, assignor.
Panzer, William C., Chicago, Ill. Ash tray or similar article. 143,091; Dec. 4.
Pearson, Joseph T., Jr., Huntingdon Valley, Pa. Shoe shine box. 143,092; Dec. 4.
Pence, William A., Adell, assignor to Enger-Kress Com-pany, West Bend, Wis. Billfold. 143,093; Dec. 4.
Phillis, William A., assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Cutting machine. 143,094; Dec. 4.
Rajah, Mildred, Buffalo, N. Y. Basket. 143,095; Dec. 4.
Ray, Kenneth B.: *See*—
Yant, W. P., and Ray.
Rosenfeld, Harry, Co.: *See*—
Hiltenbrand, Frank X., assignor.
Sagen, Anthony M., assignor to Grand Specialties Com-pany, Chicago, Ill. C-clamp. 143,096; Dec. 4.
Schneider, John H.: *See*—
Littlefield, J. B., Schneider, and Yant.
Schneider, John H., Irwin, assignor to Mine Safety Ap-pliances Company, Philadelphia, Pa. Breathing ap-paratus. 143,097; Dec. 4.
Scranton, Charles J., La Porte, Ind. Housing for thresh-ing and separating mechanism of a harvester-thresher. 143,098; Dec. 4.

Stack, James L., Jr., Crystal Bay, Nev. Toy automobile or the like. 143,099; Dec. 4.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Valve handle. 143,100; Dec. 4.

Sylvania Electric Products Inc.: *See*—
Creed, George J., assignor.

Temko, Richard S., New York, N. Y. Plastic unit for use on handbags or the like. 143,101; Dec. 4.

Wehner, John M.: *See*—
Lear, W. P., and Wehner.

Yant, William P.: *See*—
Littlefield, J. B., Schneider, and Yant.

Yant, William P., and K. B. Ray, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Air purifying canister. 143,102; Dec. 4.

Yates, George, Glendale, Calif. Spring-clip hanger. 143,103; Dec. 4.

Young, Willard G., Kenmore, assignor to W. A. Case and Son Manufacturing Company, Buffalo, N. Y. Lavatory. 143,104; Dec. 4.

Zabel, William C. P., and R. C. Helfenbein, Chicago, Ill. Strainer. 143,105; Dec. 4.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adams, Floyd W., Huntington Park, Calif., assignor to The Celotex Corporation, Chicago, Ill. Making composite siding and roofing. 2,390,045; Dec. 4.

Adams, Robert C., El Cerrito, Calif. Portable elevator. 2,390,286; Dec. 4.

Adams, Thomas O., Jr., and T. H. Troller, New Philadelphia, Ohio, assignors to La-Del Conveyor & Manufacturing Company. Adjustable pitch propeller mechanism. 2,390,068; Dec. 4.

Aget Manufacturing Company: *See*—
Gilmore, Harry L., assignor.

Agriculture, of the United States of America, Claude R. Wickard, as Secretary of, and his successors in office: *See*—
Behrberg, C. E., and Fisher, assignors.

Aiken, Charles B., North Plainfield, N. J., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Electrical logging. 2,390,400; Dec. 4.

Akerman, John D., Minneapolis, and W. M. Boothby, A. H. Bulbulian, and W. R. Lovelace, II, Rochester, Minn. Sealed aviator's suit and helmet and means for controlling gas pressure and oxygen delivery therein. 2,390,233; Dec. 4.

Aktiebolaget J. C. Ljungman: *See*—
Eklund, Hans E., assignor.

Albrecht, Otto, Neue-Welt, near Basel, assignor to the Swiss firm of Society of Chemical Industry in Basle, Basel, Switzerland. Rendering fibrous textile materials fast to slipping. 2,390,046; Dec. 4.

Alien Property Custodian: *See*—
Allard, Pierre Jean-Marie T.
Barth, Gustav.
Bernstorff, H., and Allendörfer.
D'Accadia, Eduardo U.
Freudenberg, K., and Lautsch.
Hijmans, Ernst.
Kern, Rudolf.
Meyer, K., and Lapp.
Mez, E., Pott, and Heinze.
Orthner, L., Luce, and Wagner.
Piot, Marius.
Pogioli, Vittorio.
Sahlberg, Wilhelm.
Sarthou, Henri.
Schirrmeister, Hans.
Seligman, Roger A. L.
Seng, Manfred.
Tandetzke, Karl.
Voss, A., Dietz, and Thomas.
Wünsch, Guido.

Allard, Pierre J.-M. T., Chantilly, France; vested in the Alien Property Custodian. Grab used for boring wells. 2,390,047; Dec. 4.

Allen, Elijah F., Los Angeles, Calif. Sacculated article of footwear. 2,390,287; Dec. 4.

Allendörfer, Albert: *See*—
Bernstorff, H., and Allendörfer.

Allied Chemical & Dye Corporation: *See*—
Flett, Lawrence H., assignor.

AlnCin, Inc.: *See*—
Walker, Victor, assignor.

Aluminum Company of America: *See*—
Colson, Herman H., assignor.
Dean, Walter A., assignor.
Riesmeyer, A. H., and Stowe, assignors.

American Can Company: *See*—
Beaton, Robert G., assignor.
Dawn, George J., assignor.
Geertsen, Nelson, assignor.
Murch, John H., assignor.
Peters, John F., assignor.

American Cyanamid Company: *See*—
Anderson, G. W., and Roblin, Jr., assignors.
Thurston, Jack T., assignor.
West, Byron L., assignor.

American District Telegraph Company: *See*—
Lindsay, M. H. A., and Woloschak, assignors.
Muehter, Manfred W., assignor.

American Locomotive Company: *See*—
Gunter, Addison Y., assignor.

American Steel Foundries: *See*—
Light, David M., assignor.

American Steel and Wire Company of New Jersey, The: *See*—
Johnson, H. O., and O'Hare, assignors.
Kramer, John, assignor.

Andershock, Chester E., assignor to Goodman Manufacturing Company, Chicago, Ill. Material gathering and loading machine. 2,390,410; Dec. 4.

Anderson, George W., Stamford, and R. O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Sulphonyl cyanamides. 2,390,411; Dec. 4.

Andrew, Thomas A.: *See*—
Johnston, M. O., Andrew, Graham, and Smith.

Angell, Charles J.: *See*—
Brown, John H., assignor.

Applebaum, Milton, New York, N. Y. Safety lockable cover for gas ranges. 2,390,234; Dec. 4.

Appleford Paper Products, Ltd.: *See*—
Willis, Cecil H. N. R., assignor.

Arens, Charles A., assignor to Arens Controls, Inc., Chicago, Ill. Control mechanism. 2,390,069; Dec. 4.

Arens Controls, Inc.: *See*—
Arens, Charles A., assignor.

Arps Corporation: *See*—
Arps, Frederick B., assignor.

Arps, Frederick B., assignor to Arps Corporation, New Holstein, Wis. Dump scoop attachment for tractors. 2,390,040; Dec. 4.

Aske, Irving E., Muskegon, Mich. Piston. 2,390,343; Dec. 4.

Associated Patentees, Inc.: *See*—
Powers, Walter P., assignor.

Atlas Powder Company: *See*—
Soltzberg, Sol, assignor.

Automatic Turbine Drive Company, Inc.: *See*—
Snyder, Raymond R., assignor.

Autoyre Company, Incorporated, The: *See*—
Sanford, Roy S., assignor.

Austin, John M., Warwick, R. I., assignor to Davol Rubber Company. Adhesion preventing agent for catheters and the like. 2,390,070; Dec. 4.

Avery, Harold T., and T. H. Lasagne, Oakland, Calif., assignors to Marchant Calculating Machine Company. Calculating machine. 2,390,041; Dec. 4.

Axberg, Arthur H., Bayside, N. Y. Carton. 2,390,412; Dec. 4.

Ayers, Edgar H., and A. G. Elmendorf, Schenectady, N. Y., assignors to General Electric Company. Electric switch. 2,390,344; Dec. 4.

Ayres, Waldemar A., Kew Gardens, assignor to International Business Machines Corporation, New York, N. Y. Printing machine. 2,390,413; Dec. 4.

Ayres, Waldemar A., Kew Gardens, N. Y., and R. E. Page, West Orange, N. J., assignors to International Business Machines Corporation, New York, N. Y. Stenographic machine. 2,390,414; Dec. 4.

Bach, Henry M., Lawrence, assignors to Premier Crystal Laboratories, Inc., New York, N. Y. Piezo-crystal device. 2,390,048; Dec. 4.

Bacon, Leslie R.: *See*—
Wegat, W. F., McNabney, and Bacon.

Bailey, William J., Packanack Lake, N. J., and C. E. Whiteman, Richmond Hill, assignors to International Business Machines Corporation, New York, N. Y. Record controlled annunciator. 2,390,415; Dec. 4.

Baldwin, Wayne A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,390,049; Dec. 4.

Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Plate and bearing assembly. 2,390,050; Dec. 4.

Ballamy, Leslie M., Caterham-on-Hill, and R. H. Sheepshanks, Eyke, Woodbridge, England. Needlebar mechanism for sewing machines. 2,390,288; Dec. 4.

Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Automatic control equipment. 2,390,345; Dec. 4.

Bardwell & McAlister: *See*—
Rose, J. C., and Stankey, assignors.

Barna, Joseph W., assignor of one-third to C. A. Laystrom, one-third to V. E. Hoffman, and one-third to M. T. Barna, Chicago, Ill. Shoe and making same. 2,390,042; Dec. 4.

Barna, Mary T., et al.: *See*—
Barna, Joseph W., assignor.

Barnard, Kenneth H., Short Hills, N. J., and Boris Frankfurt, New York, N. Y., assignors to Pacific Mills, Boston, Mass. Textile treatment. 2,390,235; Dec. 4.

Barnett, Louis, Brooklyn, assignor to National Urn Bag Company, Inc., Long Island City, N. Y. Infusion package manufacture. 2,390,071; Dec. 4.

Barr & Stroud, Limited: *See*—
MacGill, Charles D., assignor.

Bartels, Charles R.: *See*—
Sherman, L. R., and Bartels.

Barth, Gustav, Berlin, Germany; vested in the Alien Property Custodian. Measuring magnetic fields. 2,390,051; Dec. 4.

Bausch & Lomb Optical Company: *See*—
Bouchard, Samuel E., assignor.
Flint, Edward F., assignor.
Rayton, W. B., and Hudson, assignors.

Bayer, Clyde E., Steubenville, Ohio, and C. E. Carr, Maryland Heights, W. Va., assignors to National Steel Corporation. Making deep drawing steel. 2,390,346; Dec. 4.

Beaton, Robert G., Brooklyn, assignor to American Can Company, New York, N. Y. Producing potential openings in fiber containers or other fiber articles. 2,390,072; Dec. 4.

Beckwith, Edwin L., Brookline, and A. P. Swett, Westwood, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H. Shoe stiffener and making the same. 2,390,347; Dec. 4.

Beckwith, James E., Kosmos, Wash. Self-aligning piston. 2,390,289; Dec. 4.

Beckwith Manufacturing Company: *See*—
Beckwith, E. L., and Swett, assignors.

Beebe, John D., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Resilient wheel cushion. 2,390,290; Dec. 4.

Bell Aircraft Corporation: *See*—
Trotter, John C., assignor.

Belmont Radio Corporation: *See*—
D'Orio, P. A., and Huff, assignors.

Bendix Aviation Corporation: *See*—
Lawrence, D. M., and Lehman, assignors.

Bernstorff, Hans, Frankfort-on-the-Main, and A. Allendörfer, Bad Homburg, Germany; vested in the Alien Property Custodian. Device for stirring melts. 2,390,052; Dec. 4.

Bettmann, Ernest H., assignor to W. Liebrecht, New York, N. Y. Orthopedic child's sandal. 2,390,416; Dec. 4.

Beutel, Ralph H.: *See*—
Tishler, M., and Beutel.

Black, Elam L., et al.: *See*—
Black, James E., assignor.

Black, James E., assignor to J. E., E. L., W. J., and V. Black, a partnership doing business as Black Systems, Chicago, Ill. Building covering. 2,390,348; Dec. 4.

Black Systems: *See*—
Black, James E.

Black, Virginia, et al.: *See*—
Black, James E., assignor.

Black, Whitfield J., et al.: *See*—
Black, James E., assignor.

Blackman, Stanley, Brooklyn, N. Y. Receptacle closure. 2,390,291; Dec. 4.

Blanchette, Eli O., Killingly, Conn. Toy firearm. 2,390,349; Dec. 4.

Blessing, Harry A.: *See*—
Liebmann, August G., assignor.

Bocji Corporation: *See*—
La Place, Desmond R., assignor.

Bodle, Walter H., Birmingham, Mich. Package. 2,390,350; Dec. 4.

Bolton, Archer L., Jr., executor: *See*—
Bolton, Archer Le R.

Bolton, Archer Le R., deceased, North Andover, Mass.; A. L. Bolton, Jr., executor, assignor to J. W. Bolton & Sons, Inc. Making jordan engine. 2,390,351; Dec. 4.

Bolton, John W., & Sons, Inc.: *See*—
Bolton, Archer Le R., assignor.

Boothby, Walter M.: *See*—
Akerman, J., Boothby, Bulbulian, and Lovelace.

Boothby, Walter M., and W. R. Lovelace, II, Rochester, Minn. Portable field oxygen therapy apparatus. 2,390,236; Dec. 4.

Borden, David M., Royal Oak, assignor to Chrysler Corporation, Highland, Mich. Control apparatus. 2,390,043; Dec. 4.

Borg, George W., Corporation: *See*—
Gibbs, T. B., and Brown, assignors.
Johnston, Samuel A., assignor.

Bouchard, Samuel E., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Head protector. 2,390,352; Dec. 4.

Bousky, Samuel, Shaker Heights, assignor, by mesne assignments, to Jack & Heintz, Inc., Cleveland, Ohio. Self-aligning bearing assembly. 2,390,353; Dec. 4.

Bowers, Thomas A., assignor to Power Research Corporation, Boston, Mass. Piston ring. 2,390,044; Dec. 4.

Bowman, Philip I.: *See*—
Burrell, H., and Bowman.

Boyer, Harry: *See*—
Pooler, Earl E., assignor.

Bradford, James J., Burbank, Calif. Film mount slide. 2,390,053; Dec. 4.

Bramberry, Harry M., Oak Park, Ill. Manufacturing piston rings. 2,390,417; Dec. 4.

Brandtjen & Kluge, Inc.: *See*—
Kluge, Eneval, assignor.

Brauner, Fred: *See*—
Ullman, R., and Brauner.

Bredenbeck, Bill C., Parma, assignor to Thompson Products, Inc., Cleveland, Ohio. Seal assembly. 2,390,201; Dec. 4.

Breuer Electric Mfg. Co.: *See*—
Jason, John P., assignor.

Bristol Company, The: *See*—
Hart, Eugene H., assignor.

Bristol, John E.: *See*—
Hunsley, V. L., and Bristol.

British Ropes Limited: *See*—
Hitchen, Herbert, assignor.

Brown, John H., Houston, Tex., assignor of one-fourth to C. J. Angell, Monroe, La. Building structure. 2,390,418; Dec. 4.

Brown, Leonard C.: *See*—
Brown, W. T., W. L., and L. C.

Brown, Morris E.: *See*—
Gibbs, T. B., and Brown.

Brown, Walter T., W. L., and L. C., assignors of one-fourth to J. M. Deason, Lumpkin, Ga. Peanut plant harvester. 2,390,419; Dec. 4.

Brown, William L.: *See*—
Brown, W. T., W. L., and L. C.

Broyles, Lawren E., and B. J. Pittenger, Chico, Calif. Casting device. 2,390,054; Dec. 4.

Bryant, Niles, Augusta, Mich. Tuning apparatus for musical instruments. 2,390,237; Dec. 4.

Buda Company, The: *See*—
Smith, Harold G., assignor.

Bulbulian, Arthur H.: *See*—
Akerman, J., Boothby, Bulbulian, and Lovelace.

Burke, Wilbur B., Cleveland, Ohio. Drilling machine. 2,390,420; Dec. 4.

Burrell, Harry, Paramus, N. J., and P. I. Bowman, Syracuse, N. Y., assignors, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y. Synthetic drying oils. 2,390,202; Dec. 4.

Burton, Frank A., Poplar Bluff, Mo. Holder for upright staffs and the like. 2,390,292; Dec. 4.

Cadwell, Edwin B., Saugerties, N. Y.; H. Cadwell, executrix of said E. B. Cadwell, deceased. Machine for removing snow. 2,390,421; Dec. 4.

Cadwell, Helen, executrix: *See*—
Cadwell, Edwin B.

Calva, Jose B., St. Paul, Minn. Hair treatment. 2,390,073; Dec. 4.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,390,203; Dec. 4.

Carlisle, William A., Sr.: *See*—
Goss, Worth C., assignor.

Carr, Charles E.: *See*—
Bayer, C. E., and Carr.

Carson, Clarence M., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Producing a coating composition. 2,390,422; Dec. 4.

Carter, Jack W., Winter Haven, Fla., assignor to Fulton Bag and Cotton Mills, Atlanta, Ga. Bag closure. 2,390,423; Dec. 4.

Celanese Corporation of America: *See*—
Seymour, G. W., and White, assignors.

Celotex Corporation, The: *See*—
Adams, Floyd W., assignor.

Champagne Paper Corporation: *See*—
Goepfert, Otto F., assignor.

Chemical Laboratories, Inc.: *See*—
Whitner, Thomas C., assignor.

Chrysler Corporation: *See*—
Borden, David M., assignor.
Lamb, E. P., and Duff, assignors.
Utz, Chester C., assignor.

Cities Service Oil Company: *See*—
Morgan, John D., assignor.

Clapp, Charles W., assignor to Corning Glass Works, Corning, N. Y. Molding glass. 2,390,354; Dec. 4.

Clark, Gerald T., Hazel Crest, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway skate control and operating apparatus. 2,390,055; Dec. 4.

Cleaver-Brooks Company: *See*—
Cleaver, J. C., and Resek, assignors.

Cleaver, John C., Whitfish Bay, and J. V. Resek, assignors to Cleaver-Brooks Company, Milwaukee, Wis. Oil burner. 2,390,056; Dec. 4.

Club Aluminum Products Co.: *See*—
Peterson, Amos J., assignor.

Coe Laboratories, Inc.: *See*—
Vallandigham, Vance V., assignor.

Cohn, Edwin J., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Protein product and process. 2,390,074; Dec. 4.

Colbert, William H., Brackenridge, Pa., assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mirror or reflector. 2,390,424; Dec. 4.

Cole, Gilmoure N.: *See*—
Parkins, W. A., Cole, and Smith.

Colson, Herman H., Teaneck, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa. Work handling unit. 2,390,293; Dec. 4.

Columbia Blindstitch Machine Co., Inc.: *See*—
Schifter, Joseph, assignor.

Continental Can Company, Inc.: *See*—
Pearson, P. E., and Treff, assignors.

Cooper, Max, Paterson, N. J. Coin holder. 2,390,057; Dec. 4.





Corning Glass Works: *See*—
Clapp, Charles W., assignor.
Hyde, James F., assignor.

Creo-Dipt Company, Inc.: *See*—
Fink, Carl J., assignor.

Crestensen, Christian A.: *See*—
Pooler, Earl E., assignor.

Crompton & Knowles Loom Works: *See*—
Wakefield, Walter H., assignor.

Cross, Carroll M., Middleboro, Mass. Display mount. 2,390,294; Dec. 4.

Crown Cork & Seal Company, Inc.: *See*—
Patrick, W. A., Jr., and (Elder, assignor).

Crum, Stephen, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,390,425; Dec. 4.

Curtis Pump Company: *See*—
Curtis, Russell R., assignor.

Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Combination booster pump. 2,390,204; Dec. 4.

Cutler-Hammer, Inc.: *See*—
Lilquist, A. E., and Proudfoot, assignors.

D'Arcadia, Eduardo U., Milano, Italy; vested in the Alien Property Custodian. Gas producer by solid fuel, and suitable to feed gas motors, and especially auto motors. 2,390,058; Dec. 4.

Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber. 2,390,205; Dec. 4.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car truck. 2,390,206; Dec. 4.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,390,207; Dec. 4.

Davidson, John A., Brooklyn, N. Y. Machine for perforating, slitting, or scoring sheets. 2,390,426; Dec. 4.

Davies, Clarence J., assignor to National Automotive Fibres, Inc., Detroit, Mich. Heating apparatus. 2,390,208; Dec. 4.

Davol Rubber Company: *See*—
Auzin, John M., assignor.

Dawn, George J., Waukegan, Ill., assignor to American Can Company, New York, N. Y. Conveyer for ovens. 2,390,075; Dec. 4.

Deal, Erastus C., Wilkes-Barre, Pa., assignor to Deal Slide-Lock Devices, Inc., Bronx, N. Y. Lock, latch, and the like. 2,390,076; Dec. 4.

Deal Slide-Lock Devices, Inc.: *See*—
Deal, Erastus C., assignor.

Dean, Walter A., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Quenching of aluminum-magnesium alloys. 2,390,238; Dec. 4.

Deason, Johnston M.: *See*—
Brown, W. T., W. L., and L. C., assignors.

De Grasia, Joseph, Washington, D. C. Drawstring for trouser legs. 2,390,077; Dec. 4.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,081; Dec. 4.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,082; Dec. 4.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,083; Dec. 4.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,078; Dec. 4.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,079; Dec. 4.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,390,080; Dec. 4.

De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Liquid fuel burner. 2,390,059; Dec. 4.

De Lancey, Warren H., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Counting mechanism. 2,390,239; Dec. 4.

De Lancey, Warren H., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Power transmitting mechanism. 2,390,240; Dec. 4.

Dempsey, Oscar E., Tulsa, Okla. Lifting apparatus. 2,390,241; Dec. 4.

Detjen, Edgar W., Milwaukee, Wis. Water motor for lawn sprinklers, etc. 2,390,355; Dec. 4.

Dickey, Joseph B.: *See*—
McNally, J. G., and Dickey.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Record controlled computing machine. 2,390,427; Dec. 4.

Dietz, Karl: *See*—
Voss, Arthur, Dietz, and Thomas.

Dike, Theodore W.: *See*—
Laucks, I. F., Merritt, Lawshe, and Dike.

Dileo, Dominick, Utica, N. Y. Fishing line reel brake. 2,390,356; Dec. 4.

Disken, Martin B., Brooklyn, N. Y. Card holding attachment. 2,390,357; Dec. 4.

Disse, Josef A., Detroit, Mich. Universal vise. 2,390,428; Dec. 4.

Dons, Eddie M., and O. G. Mauro, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Extracting constituents of mineral oils. 2,390,429; Dec. 4.

Dons, Eddie M., and O. G. Mauro, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Apparatus for extracting constituents of mineral oils. 2,390,430; Dec. 4.

D'Orio, Pat A., Oak Park, and J. W. Huff, Elmwood Park, assignors, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. Radio receiving system. 2,390,209; Dec. 4.

Doty, Charles R., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Record punching machine. 2,390,486; Dec. 4.

Dowty Equipment Limited: *See*—
Snarey, George N., assignor.

Duff, Robert H.: *See*—
Lamb, E. P., and Duff

Dunham, Charles E., Los Angeles, Calif. Razor rack. 2,390,060; Dec. 4.

Du Pont, E. I., de Nemours & Company: *See*—
Hansley, V. L., and Bristol, assignors.
Harmon, Jesse, assignor.
Henke, Clyde O., assignor.
Mighton, C. J., assignor.
Smith, A. F., and Stevenson, assignors.

Durite Plastics, Incorporated: *See*—
Novotny, Emil E., assignor.

Eastman Kodak Company: *See*—
McNally, J. G., and Dickey, assignors.

Edenboro, Edward E. K., Greenville, Ala. Protective device for ships. 2,390,358; Dec. 4.

Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Regulating apparatus. 2,390,084; Dec. 4.

Eklund, Hans E., assignor to Aktiebolaget J. C. Ljungman, Malmo, Sweden. Disconnector means in self-charging firearms. 2,390,061; Dec. 4.

Elder, John D.: *See*—
Patrick, W. A., Jr., and Elder.

Elmendorf, Andrew G.: *See*—
Ayers, E. H., and Elmendorf.

Engberg, Arthur W., Madison, Wis. Piston skirt expander. 2,390,431; Dec. 4.

Engler, Robert J., assignor of one-fourth to H. M. Seippel, as trustee for P. J. Seippel, Beaver Dam, Wis. Article transferring apparatus. 2,390,242; Dec. 4.

English, Elmer D.: *See*—
Langenberg, George O., assignor.

Erland af Kleen, Nils, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J. Refrigeration. 2,390,085; Dec. 4.

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Triple action automobile body press. 2,390,359; Dec. 4.

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Control mechanism for hydraulic pumps. 2,390,360; Dec. 4.

Essex Wire Corporation: *See*—
Murphy, Charles J., assignor.

Esterer, Arnulf K.: *See*—
Katz, D. L., and Esterer.

Evans, Cyril H., Snaresbrook, London, E. 11, England. Preparation of chlorine dioxide and nitrogen oxides. 2,390,432; Dec. 4.

Fairchild Aviation Corporation: *See*—
Roters, Herbert C., assignor.

Faltico, Frank J., assignor to the Maico Company Incorporated, Minneapolis, Minn. Hearing aid device. 2,390,243; Dec. 4.

Fenron, Robert E., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well survey method and apparatus. 2,390,433; Dec. 4.

Ferris, William D., Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill. Closure operating mechanism. 2,390,086; Dec. 4.

Fester, Eri I., Bloomsburg, Pa. Corn cutter and sled wagon. 2,390,245; Dec. 4.

Fieger, Ernest A., and V. R. Williams, assignors to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. Fortification of rice. 2,390,210; Dec. 4.

Fink, Carl J., Buffalo, assignor to Creo-Dipt Company, Inc., North Tonawanda, N. Y. Sheathing unit. 2,390,087; Dec. 4.

Finlayson, Duncan K., Bronxville, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Catalytic conversion of hydrocarbons. 2,390,244; Dec. 4.

Fisher, Charles H.: *See*—
Rehberg, C. E., and Fisher.

Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Soap composition. 2,390,295; Dec. 4.

Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Median device. 2,390,361; Dec. 4.

Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. 2,390,362; Dec. 4.

Flowers, Ralph G., Pittsfield, Mass., assignor to General Electric Company. Production of acenaphthylene. 2,390,363; Dec. 4.

Folkman, Marvin L., Shaker Heights, Ohio. Syringe. 2,390,246; Dec. 4.

Ford, Walter B., Los Angeles, assignor of forty-six and two-thirds percent to C. B. Jamison, Beverly Hills, and twenty percent to C Mason, Beverly Hills, Calif. Toy gun. 2,390,247; Dec. 4.

Form Fashion, Inc.: *See*—
Sholder, Morris, assignor.

Formsell, Eric G., Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Film holders. 2,390,211; Dec. 4.

Fox, Sereck H., Birmingham, and L. P. Opferman, Detroit, assignors to Gelatin Products Corporation, Detroit, Mich. Enteric gelatin capsule shell or envelope. 2,390,088; Dec. 4.

Frankfurt, Boris: *See*—
Barnard, K. K., and Boris.

Franks Manufacturing Corporation: *See*—
Woody, W. B., and Scott, assignors.

Frantz Manufacturing Co.: *See*—
Ferris, William D., assignor.

French, Ralph T., Upper Darby, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker mechanism. 2,390,062; Dec. 4.

Freundenberg, Karl, and W. Lautsch, Heidelberg, Germany; vested in the Alien Property Custodian. Preparation of products from lignin by hydrogenation. 2,390,063; Dec. 4.

Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds. 2,390,089; Dec. 4.

Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds. 2,390,090; Dec. 4.

Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds. 2,390,091; Dec. 4.

Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds. 2,390,092; Dec. 4.

Fritz, James H., Montclair, assignor to National Oil Products Company, Harrison, N. J. Antifoaming agents. 2,390,212; Dec. 4.

Fulton Bag and Cotton Mills: *See*—
Carter, Jack W., assignor.

Gardner, Irving, Brooklyn, N. Y. Paper hat. 2,390,064; Dec. 4.

Garrison, Murray E., Dayton, Ohio. Airplane wing deicing means. 2,390,093; Dec. 4.

Geertsen, Nelson, Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. 2,390,094; Dec. 4.

Geigy, J. R., A. G.: *See*—
Keller, Ernst, assignor.

Gelatin Products Corporation: *See*—
Fox, S. H., and Opferman, assignors.

Gelb, Joseph, New York, N. Y. Photographic camera-enlarger. 2,390,065; Dec. 4.

Geldhof, Peter E., and L. Ringer, assignors to Nineteen Hundred Corporation, St. Joseph, Mich. Floating supporting structure for automatic washers. 2,390,213; Dec. 4.

General Controls Co.: *See*—
Ray, William A., assignor.

General Electric Company: *See*—
Ayers, E. H., and Elsendorf, assignors.
Bany, Herman, assignor.
Edwards, Martin A., assignor.
Flowers, Ralph G., assignor.
Goff, Robert W., assignor.
Jordan, W. B., and Johnson, assignors.
Marsden, James, assignor.
Stanworth, John E., assignor.
Uhlig, Herbert H., assignor.

General Foods Corporation: *See*—
Rector, Thomas M., assignor.

General Motors Corporation: *See*—
Bales, Max G., assignor.
Marvin, John T., assignor.
Poole, Lora E., assignor.

Gibbs, Thomas B., and M. R. Brown, Delavan, Wis., assignors, by mesne assignments, to George W. Borg Corporation, Chicago, Ill. Timing apparatus. 2,390,364; Dec. 4.

Gilbert & Barker Manufacturing Company: *See*—
De Lancey, Warren H., assignor.

Gilbert, George R., Elizabeth, N. J., assignor to Standard Oil Development Company. Increasing cetane number of fuel oil. 2,390,296; Dec. 4.

Gilmore, Harry L., assignor to Aget Manufacturing Company, Adrian, Mich. Gas purification. 2,390,297; Dec. 4.

Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car structure. 2,390,434; Dec. 4.

Glassmer, Mitchel, assignor to Maryland Baking Company, Inc., Baltimore, Md. Jacket removing plug. 2,390,298; Dec. 4.

Gloss, Gunter H., Redwood City, assignor to Marine Magnesium Products Corporation, South San Francisco, Calif. Manufacture of magnesium products. 2,390,095; Dec. 4.

Goepfert, Otto F., Brevard, N. C., assignor to Champagne Paper Corporation. Machine for applying fasteners to paper booklets. 2,390,096; Dec. 4.

Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 2,390,365; Dec. 4.

Goodman Manufacturing Company: *See*—
Andershock, Chester E., assignor.

Goodrich, B. F., Company, The: *See*—
Beebe, John D., assignor.
Herzegh, Frank, assignor.

Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Raceway clearing device. 2,390,066; Dec. 4.

Goss, Worth C., assignor to W. A. Carlisle, Sr., Seattle, Washington. Apparatus for preparation of carbon. 2,390,067; Dec. 4.

Gossling, Clement E., Toronto, Ontario, Canada, assignor to Rogers Majestic Corporation, Dover, Del. Speed control system. 2,390,144; Dec. 4.

Grabau, William C., assignor to Submarine Signal Company, Boston, Mass. Voltage regulator. 2,390,214; Dec. 4.

Graham, Adelbert M.: *See*—
Johnston, M. O., Andrew, Graham, and Smith.

Graves, Theodore E., Orange, assignor to The Wilcolator Company, Elizabeth, N. J. Electric switch. 2,390,145; Dec. 4.

Grill, George M., Kew Gardens Hills, N. Y., assignor to Lewyt Corporation. Swivel chair. 2,390,215; Dec. 4.

Gubisch, Erwin A., assignor to Teletype Corporation, Chicago, Ill. Perforating machine. 2,390,435; Dec. 4.

Guedon, Emile C., Audubon, N. J., assignor to Radio Corporation of America. Light shutter. 2,390,216; Dec. 4.

Gunter, Addison Y., Larchmont, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,390,436; Dec. 4.

Gutkin, Louis A., Winnipeg, Manitoba, Canada. Air circulating fan. 2,390,299; Dec. 4.

Hackney, Ray, Glendale, Calif. Spreader for water heaters. 2,390,248; Dec. 4.

Hadley, E. V.: *See*—
Steinmetz, Harry G., assignor.

Hall, Charles T., and R. W. Harris, Deptford, London, S. E. 8, England. Machine for manipulating belts of cartridges for automatic guns. 2,390,097; Dec. 4.

Hall, Stanley A., Mt. Rainier, Md., and B. V. Travis and H. A. Jones, Orlando, Fla.; dedicated to the free use of the people of the territory of the United States. Insect-repellent composition. 2,390,249; Dec. 4.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Cathode ray tube and circuit. 2,390,250; Dec. 4.

Hanaley, Virgil L., and J. E. Bristol, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of lactonitrile acetate. 2,390,098; Dec. 4.

Harbert, Carl J., Shaker Heights, Ohio, and W. C. Morris, Gainesville, Fla., assignors to The Harahaw Chemical Company, Elyria, Ohio. Glass enamel composition. 2,390,366; Dec. 4.

Harding, William G.: *See*—
Nisbet, R. H., and Harding.

Harmon, Jesse, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,390,099; Dec. 4.

Harris, Frederic R., New York, N. Y. Shock-absorbing floating dry dock. 2,390,300; Dec. 4.

Harris, Richard W.: *See*—
Hall, C. T., and Harris.

Harshaw Chemical Company, The: *See*—
Harbert, C. J., and Morris, assignors.

Hart, Eugene H., assignor to The Bristol Company, Waterbury, Conn. Pneumatic telemetering system. 2,390,301; Dec. 4.

Harvey, Valentine P.: *See*—
Musson, A. H., and Harvey.

Hasbrouck, John S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Ignition timing control device. 2,390,146; Dec. 4.

Hatton, William, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Device for testing coins. 2,390,147; Dec. 4.

Hayes, Ralph F., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Production of brushes and the like. 2,390,437; Dec. 4.

Hayward, John A., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter chain. 2,390,251; Dec. 4.

Hayward, John T., Tulsa, Okla. Apparatus for determining permeabilities of porous media. 2,390,252; Dec. 4.

Hazel-Atlas Glass Company: *See*—
Ross, James W., assignor.

Heinze, Werner: *See*—
Mes, E., Pott, and Heinze.

Henke, Clyde O., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphonyl compounds and processes for their production. 2,390,253; Dec. 4.

Henkle, William A., Chicago, Ill. Milling cutter unit and assembly. 2,390,254; Dec. 4.

Hennessy, James J., Montclair, N. J. Journal lubricator structure. 2,390,367; Dec. 4.





Henricksen, Bjarne, Hudson County, N. J., assignor to Sedgwick Machine Works, Inc., Poughkeepsie, N. Y. Conveyer. 2,390,302; Dec. 4.

Henry Pratt Company: *See*—
Smith, William S., assignor.

Herzegh, Frank, Shaker Heights, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bead locking ring. 2,390,303; Dec. 4.

Hess, Frederic O., Germantown, Pa., assignor to Selas Corporation of America. Airplane heating means. 2,390,255; Dec. 4.

Heyden Chemical Corporation: *See*—
Burrell, H., and Bowman, assignors.

Hijmans, Ernst, The Hague, Netherlands; vested in the Alien Property Custodian. Tool mounting. 2,390,148; Dec. 4.

Hitchen, Herbert, assignor to British Ropes Limited, Doncaster, England. Determining and recording the stresses in wire ropes, chains, etc. 2,390,304; Dec. 4.

Hlavin, William S.: *See*—
Sigmund, F. J., and Hlavin.

Hobson, Stanley H., and H. H. Ring, assignors to Geo. D. Roper Corporation, Rockford, Ill. Range construction. 2,390,438; Dec. 4.

Hochwalt, Carroll A., Dayton, Ohio, assignor to Monsanto Chemical Company. Production of para-divinylbenzene. 2,390,368; Dec. 4.

Hoffman, Valentine E., et al.: *See*—
Barna, Joseph W., assignor.

Holbrook, Max A., Coldwater, Mich. Coasting sled. 2,390,256; Dec. 4.

Holmgren, Gustave: *See*—
Tator, K., and Gustave.

Hopper, Floyd, Paterson, N. J. Stripping machine. 2,390,369; Dec. 4.

Hopper, Oscar B., Long Beach, Calif. Arc welding device. 2,390,149; Dec. 4.

Howe, Albert E.: *See*—
Tour, S., and Howe.

Hudson, Lena M.: *See*—
Rayton, W. B., and Hudson.

Huff, John W.: *See*—
D'Orio, P. A., and Huff.

Hughes, Everett C., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Hydrocarbon polymerization. 2,390,100; Dec. 4.

Hulbert, Ivan J.: *See*—
Tatlow, P., and Hulbert.

Hunter, Dean F., Ogden, Iowa. Holder and insulator for electric fence wire. 2,390,305; Dec. 4.

Hunters, James, Machine Company, The: *See*—
Morrill, Frank B., assignor.

Hunziker, Freda E., administratrix: *See*—
Hunziker, Sidney H.

Hunziker, Sidney H., deceased, by F. E. Hunziker, Drexel, Mo., administratrix. Discharge chute for hay balers. 2,390,306; Dec. 4.

Hyde, James F., assignor to Corning Glass Works, Corning, N. Y. Manufacture of glass yarn. 2,390,370; Dec. 4.

Hydraulic Brake Company: *See*—
Katz, D. L., and Esterer, assignors.

Hydraulic Development Corp. Inc., The: *See*—
Ernst, Walter, assignor.

I-T-E Circuit Breaker Company: *See*—
Scott, William M., Jr., assignor.

I. T. E. Circuit Breaker Company: *See*—
Scott, William M., Jr., assignor.

Illinois Tool Works: *See*—
Poupitch, Ougljesa J., assignor.

Interchemical Corporation: *See*—
Jeuck, F. J., and Rietz, assignors.
Rietz, C. A., and Jeuck, assignors.

International Business Machines Corporation: *See*—
Ayres, Waldemar A., assignor.
Ayres, W. A., and Pare, assignors.
Bailey, W. J., and Whiteman, assignors.
Dickinson, Arthur H., assignor.
Doty, Charles R., assignor.
Johnson, Reynold B., assignor.
Keen, H. H., and Wright, assignors.
Watson, A. K., Lewis, and Walsh, assignors.

International Nickel Company, Inc., The: *See*—
Kalil, Eugene J., assignor.
Mudge, William A., assignor.

International Standard Electric Corporation: *See*—
Hatton, William, assignor.

Ivy, Jessie T., Seattle, Wash. Punching machine. 2,390,371; Dec. 4.

Jack & Heintz, Inc.: *See*—
Bousky, Samuel, assignor.

Jahn, Walter K., Los Angeles, Calif. Disappearing hanger. 2,390,257; Dec. 4.

Jamison, C. Bland: *See*—
Ford, Walter B., assignor.

Jason, John P., assignor to Breuer Electric Mfg. Co., Chicago, Ill. Suction cleaning apparatus. 2,390,101; Dec. 4.

Jeffrey Manufacturing Company, The: *See*—
Le Roy, Franklin J., assignor.

Jeuck, Francis J.: *See*—
Rietz, C. A., and Jeuck.

Jeuck, Francis J., Chicago, and C. A. Rietz, Park Ridge, Ill., assignors to Interchemical Corporation, New York, N. Y. Printing inks. 2,390,102; Dec. 4.

Johnson, Frithiof V.: *See*—
Jordan, W. B., and Johnson.

Johnson, Harry O., and M. O'Hare, Donora, Pa., assignors to The American Steel and Wire Company of New Jersey. Valve. 2,390,150; Dec. 4.

Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Optical record interpreter. 2,390,439; Dec. 4.

Johnson, William J., Dayton, Ohio. Union tube connection locking nut. 2,390,103; Dec. 4.

Johnston, Mordica O., and T. A. Andrew, Glendale, and A. M. Graham and W. C. L. Smith, Los Angeles, Calif. Open hole sleeve packer. 2,390,372; Dec. 4.

Johnston, Samuel A., Delavan, Wis., assignor to George W. Borg Corporation, Chicago, Ill. Automatic battery charging system. 2,390,151; Dec. 4.

Jones, Chas. E., et al.: *See*—
Williams, Dan T., assignor.

Jones, Ernest G., and G. O. Leach, Seattle, Wash. Hot top. 2,390,373; Dec. 4.

Jones, Howard A.: *See*—
Hall, S. A., Travis, and Jones.

Jordan, William B., and F. V. Johnson, Schenectady, N. Y., assignors to General Electric Company. Trunnion tilt corrector apparatus. 2,390,374; Dec. 4.

Kalil, Eugene J., Huntington, W. Va., assignor to The International Nickel Company, Inc., New York, N. Y. Lead coating. 2,390,440; Dec. 4.

Katz, Donald L., and Arnulf K. Esterer, Ann Arbor, assignors to Hydraulic Brake Company, Detroit, Mich. Hydraulic pressure fluid. 2,390,258; Dec. 4.

Kaufman, Hiram J., Detroit, Mich. Cooling and dehydrating apparatus. 2,390,104; Dec. 4.

Keczeli, Géza M.: *See*—
Runcie, W. O., and Keczeli.

Keen, Harold H., and T. O. Wright, Letchworth, England, assignors to International Business Machines Corporation, New York, N. Y. Adding and subtracting mechanism. 2,390,441; Dec. 4.

Keiser, Bernhard: *See*—
De Groote, M., and Keiser.

Keith, Kenneth M.: *See*—
Ronning, M., and Keith.

Kelecius, Anthony S., Oaklawn, Ill. Gas powered model airplane control line apparatus. 2,390,307; Dec. 4.

Keller, Ernst, assignor to J. R. Geigy, A. G. Basel, Switzerland. Substantive azo dyestuffs. 2,390,152; Dec. 4.

Keller, Theodore W., Council Bluffs, Iowa. Moistureproof base. 2,390,308; Dec. 4.

Kellogg, M. W., Company, The: *See*—
Finlayson, Duncan K., assignor.

Kerlow Steel Flooring Company: *See*—
Taref, Ernest L., assignor.

Kern, Rudolf, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Condensation products and producing same. 2,390,153; Dec. 4.

Kerr, James Gordon, Washington, D. C., assignor to Moore Business Forms, Inc. Carbon interleaved record assembly. 2,390,259; Dec. 4.

Kessler, Wilbur, Newtown Square, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,390,154; Dec. 4.

Kessler, Wilbur, Newtown Square, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker. 2,390,155; Dec. 4.

Keuffel & Esser Company: *See*—
Schneider, Walter H., assignor.

Keys, Theodore F., Jeannette, Pa. Piercer. 2,390,309; Dec. 4.

King, Harold A., Birmingham, Mich. Automotive vehicle. 2,390,260; Dec. 4.

Kirkpatrick, William C., Alhambra, assignor to J. R. and W. Thompson, Los Angeles, Calif. Method and apparatus for converting ore. 2,390,105; Dec. 4.

Kleen Refrigerator, Inc.: *See*—
Erland af Kleen, Nils, assignor.

Kluge, Eneval, assignor to Brandtjen & Kluge, Inc., St. Paul, Minn. Platen mounting. 2,390,156; Dec. 4.

Knowles, Silvy H., Oklahoma City, Okla. Turnbuckle tool. 2,390,310; Dec. 4.

Kramer, John, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Wire pay-off reel. 2,390,157; Dec. 4.

Kramer, John, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Reel for wire-drawing machines. 2,390,158; Dec. 4.

Krieble, Vernon K., Hartford, Conn., and R. H. Smellie, Oak Ridge, Tenn. Preparing carboxylic anhydrides. 2,390,106; Dec. 4.

Krieger, Joseph L., Baltimore, Md. Coating and coating methods. 2,390,217; Dec. 4.

Kucera, Joseph B., Traer, Iowa. Hemp turning machine. 2,390,375; Dec. 4.

Kuchlinsky, Esther M.: *See*—
Kuchlinsky, Fred W., assignor.

Kuchlinsky, Fred W., Newark, assignor to Esther M. Kuchlinsky, Montclair, N. J. Packaging machine. 2,390,107; Dec. 4.

Kupiec, Harry P., and E. Stewart, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Hydraulic brake. 2,390,311; Dec. 4.

La-Del Conveyor & Manufacturing Company: *See*— Adams, T. O., Jr., and Troller, assignors.

Lamb, Ernest P., Grosse Point Park, and R. H. Duff, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Motor vehicle. 2,390,218; Dec. 4.

Langdon, Jesse D., Long Beach, Calif. Combined check valve and vacuum breaker. 2,390,108; Dec. 4.

Langenberg, George O., Ballwin, assignor of one-half to E. D. English, Clayton, Mo. Cutting machine. 2,390,376; Dec. 4.

Langley, Sarah L., administratrix: *See*— Neely, Charles A.

La Place, Desmond R., assignor to Bocjl Corporation, Pittsburgh, Pa. Staple. 2,390,219; Dec. 4.

Lapp, Hans: *See*— Meyer, K., and Lapp.

Larsen, Olai F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Ball-operated toy. 2,390,442; Dec. 4.

Lassagne, Theodore H.: *See*— Avery, H. T., and Lassagne.

Laucks, I. F., Inc.: *See*— Laucks, I. F., Merritt, Lawshe, and Dike, assignors.

Laucks, Irving F., Seattle, Wash., E. H. Merritt, Lockport, N. Y., and W. D. Lawshe and T. W. Dike, assignors to I. F. Laucks, Inc., Seattle, Wash. Handling and pressing means and method. 2,390,159; Dec. 4.

Lautsch, Willy: *See*— Freudenberg, K., and Lautsch.

Lawrence, Donald M., Caldwell, N. J., and S. K. Lehman, Brooklyn, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Flow regulating system. 2,390,487; Dec. 4.

Lawshe, Walter D.: *See*— Laucks, I. F., Merritt, Lawshe, and Dike.

Laystrom, C. A., et al.: *See*— Barna, Joseph W., assignor.

Leach, George O.: *See*— Jones, Ernest G.

Lehman, Samuel K.: *See*— Lawrence, D. M., and Lehman.

Le Roy, Franklin J., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer. 2,390,261; Dec. 4.

Le Vesconte, Harold J., Western Springs, and A. M. Schweda, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine drive. 2,390,220; Dec. 4.

Lewis, William L.: *See*— Watson, A. K., Lewis, and Walsh.

Lewyt Corporation: *See*— Grill, George M., assignor.

Libbey-Owens-Ford Glass Company: *See*— Colbert, William H., assignor.

Liebmann, August G., assignor of one-half to H. A. Blessing, Washington, D. C. Airport landing signal apparatus. 2,390,109; Dec. 4.

Liebrecht, Walter: *See*— Bettmann, Ernest H., assignor.

Light, David M., assignor to American Steel Foundries, Chicago, Ill. Spring group. 2,390,110; Dec. 4.

Liljquist, Arvid E., Milwaukee, and O. P. Proudfoot, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for lifting magnets. 2,390,377; Dec. 4.

Lindsay, Maxwell H. A., Summit, N. J., and K. Woloschak, Port Chester, N. Y., assignors to American District Telegraph Company, Jersey City, N. J. Alarm system. 2,390,221; Dec. 4.

Livingstone, Harry, Longsight, Manchester, 12, assignor to Manchester Repetition Engineers Limited, Manchester, England. Roller box or steady for lathes and like machines. 2,390,312; Dec. 4.

Logue, Leland H., assignor to Mining Process and Patent Company, Denver, Colo. Aerating apparatus. 2,390,111; Dec. 4.

Louisiana State University and Agricultural and Mechanical College, Board of Supervisors of: *See*— Fieger, E. A., and Williams, assignors.

Lovelace, William R., II: *See*— Akerman, J., Boothby, Bulbulian, and Lovelace. Boothby, W., and Lovelace.

Luce, Wilhelm: *See*— Orthner, L., Luce, and Wagner.

Macgill, Charles D., Glasgow, W. 3, assignor to Barr & Stroud, Limited, Glasgow, Scotland. Gas and liquid mixer. 2,390,313; Dec. 4.

Maico Company Incorporated, The: *See*— Faltico, Frank J., assignor.

Manchester Repetition Engineers Limited: *See*— Livingstone, Harry, assignor.

Marchant Calculating Machine Company: *See*— Avery, H. T., and Lassagne, assignors.

Marco Chemicals, Inc.: *See*— Shobert, Samuel M., assignor.

Marine Magnesium Products Corporation: *See*— Gloss, Gunter H., assignor.

Marsden, James, Schenectady, N. Y., assignor to General Electric Company. Making silicone resins. 2,390,378; Dec. 4.

Martin, Edward W., Roxbury, Conn. Wall plate. 2,390,379; Dec. 4.

Martin, Glenn L., Company, The: *See*— Kupiec, H. P., and Stewart, assignors.

Marvin, John T., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method of manufacture. 2,390,160; Dec. 4.

Maryland Baking Company, Inc.: *See*— Glassner, Mitchel, assignor.

Mason, Collins: *See*— Ford, Walter B., assignor.

Massey, William B., Richmond, Va. Dispensing device for paste tubes. 2,390,314; Dec. 4.

Mauro, Oswald G.: *See*— Dons, E. M., and Mauro.

Mazer, Jacob, Miami Beach, Fla. Acoustical structure. 2,390,262; Dec. 4.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. 2,390,380; Dec. 4.

McCollum, Thelma, executrix: *See*— McCollum, Henry J. De N.

McConnell, Samuel V.: *See*— Simpkins, Carl R., assignor.

McGaffey, Edgar W., Bakersfield, assignor of forty-five per cent to C. C. Taylor, Long Beach, and ten per cent to D. W. Ward, Huntington Park, Calif. Well packer. 2,390,112; Dec. 4.

McKinnis, Ronald B., Winter Haven, Fla. Apparatus for filling containers. 2,390,443; Dec. 4.

McNabney, Ralph: *See*— Wegst, W. F., McNabney, and Bacon.

McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Monoazo compounds. 2,390,113; Dec. 4.

McNitt, Robert J., Perth Amboy, N. J. Electrolysis of fused baths. 2,390,114; Dec. 4.

McNitt, Robert J., Perth Amboy, N. J. Apparatus for purifying light metals. 2,390,115; Dec. 4.

McRoberts, Richard C., Tania, Iowa. Nail cleaning attachment for nail files. 2,390,381; Dec. 4.

Mefferd, Paul H., Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio. Counting mechanism. 2,390,444; Dec. 4.

Mercier, Jean, New York, N. Y. Oil tight joint. 2,390,445; Dec. 4.

Mercier, Pierre E., Westport, Conn. Airplane power plant. 2,390,161; Dec. 4.

Merck & Co., Inc.: *See*— Sletzinger, M., and Paulsen, assignors. Tishler, M., and Beutel, assignors.

Merk, George S., Flushing, N. Y. Handbag frame strip for attaching bag material to bag frames. 2,390,315; Dec. 4.

Merritt, Ericsson H.: *See*— Laucks, I. F., Merritt, Lawshe, and Dike.

Metal Textile Corporation: *See*— York, Otto H., assignor.

Meyer, Kurt, Berlin-Zehlendorf, and H. Lapp, Klein-Machnow, near Berlin, Germany; vested in the Alien Property Custodian. Producing light polarizing bodies. 2,390,162; Dec. 4.

Mez, Erich, Berlin-Charlottenburg, and F. Pott and W. Heinze, Zella-Mehlis, Germany; vested in the Alien Property Custodian. Typewriting accounting machine. 2,390,163; Dec. 4.

Michelman, Nathan, Brooklyn, N. Y. Rolling door construction. 2,390,116; Dec. 4.

Michelman, Nathan, Brooklyn, N. Y. Rolling door construction. 2,390,117; Dec. 4.

Mid-Continent Petroleum Corporation: *See*— Dons, E. M., and Mauro, assignors.

Middleby-Marshall Oven Company: *See*— Nalbach, John R., assignor.

Mighton, Charles J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanizates of furylethylene polymers. 2,390,446; Dec. 4.

Miller, Alfred L.: *See*— Weisberg, S. M., Stimpson, and Miller.

Miller Company, The: *See*— De Lancey, Ralph W., assignor.

Miller, Gerald W., et al.: *See*— Williams, Dan T., assignor.

Miller, Raymond M., Estacada, Oreg. Cultivator plow. 2,390,447; Dec. 4.

Mills, Aubrey R., Southgate, London, N. 14, England. Die-casting machine. 2,390,263; Dec. 4.

Miner, W. H., Inc.: *See*— Dath, George E., assignor. Forssell, Eric G., assignor.

Mining Process and Patent Company: *See*— Logue, Leland H., assignor.

Minneapolis-Honeywell Regulator Company: *See*— Crum, Stephen, assignor.

Minneapolis-Moline Power Implement Company: *See*— Ronning, M., and Keith, assignors.

Moeller, William C., assignor to A. F. Parmalee, doing business as United States Safety Service Co., Kansas City, Mo. Dispenser. 2,390,448; Dec. 4.

Moffett, Eugene W., Milwaukee, Wis., and R. E. Smith, New York, N. Y., assignors to Pittsburgh Plate Glass Company. Conjoint polymerization products. 2,390,164; Dec. 4.





Mohr, Albert C., Arcadia, Calif., assignor to Stauffer Chemical Company. Soil correctives. 2,390,264; Dec. 4.

Monsanto Chemical Company: *See*— Hayes, Ralph F., assignor. Hochwalt, Carroll A., assignor. Taylor, George E., assignor.

Montgomery, Arvid N., Owensville, Ind. Alarm system. 2,390,449; Dec. 4.

Moore Business Forms, Inc.: *See*— Kerr, James G., assignor.

Morgan, John D., South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y. Lithium base greases. 2,390,450; Dec. 4.

Morrill, Frank B., North Adams, Mass., assignor to The James Hunter Machine Company. Tenter drier. 2,390,451; Dec. 4.

Morris, William C.: *See*— Harbert, C. J., and Morris.

Mottern, Henry O., Hillside, N. J., assignor to Standard Oil Development Company. Acid recovery process. 2,390,316; Dec. 4.

Mount Sinai Hospital Research Foundation, Inc.: *See*— Sobotka, H. H., and Rubin, assignors.

Mudge, William A., assignor to The International Nickel Company, Inc., New York, N. Y. Producing composite metal stock. 2,390,452; Dec. 4.

Muehter, Manfred W., Nutley, assignor to American District Telegraph Company, Jersey City, N. J. Unit transmitter printing and signaling systems. 2,390,222; Dec. 4.

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Coating machine. 2,390,118; Dec. 4.

Murdock, William, Chicago, Ill. Fireplace andiron. 2,390,453; Dec. 4.

Murphy, Charles J., Fort Wayne, Ind., assignor to Essex Wire Corporation. Flier for wrapping yarn around wire. 2,390,454; Dec. 4.

Murray Corporation of America, The: *See*— Wilkins, Howard W., assignor.

Musson, Alfred H., Woolwich, London, S. E. 18, and V. P. Harvey, Deptford, London, S. E. 6, England. Fuse-setting apparatus. 2,390,382; Dec. 4.

Nalbach, John R., Oak Park, assignor to Middleby-Marshall Oven Company, Chicago, Ill. Bake oven conveyer. 2,390,455; Dec. 4.

Nashua Manufacturing Company: *See*— Radford, George S., assignor.

National Automotive Fibres, Inc.: *See*— Davies, Clarence J., assignor.

National Biscuit Company: *See*— Tascher, Eugene S., assignor.

National Blank Book Company: *See*— Schade, Frank S., assignor.

National Cash Register Company, The: *See*— Spurlino, P., and Rauch, assignors.

National Oil Products Company: *See*— Fritz, James H., assignor. Sherman, L. R., and Bartels, assignors.

National Steel Corporation: *See*— Bayer, C. E., and Carr, assignors.

National Urn Bag Company, Inc.: *See*— Barnett, Louis, assignor.

Neely, Charles A., assignor of forty per cent to H. J. Sweeney, Seattle, Wash.; S. L. Langley, administratrix of said C. A. Neely, deceased. Liquid lift. 2,390,265; Dec. 4.

Nehf, Sol, Chicago, Ill. Garment construction. 2,390,456; Dec. 4.

Neufeld, Jacob, Tulsa 5, Okla. Navigational method and apparatus. 2,390,383; Dec. 4.

New York Air Brake Company, The: *See*— Baldwin, Wayne A., assignor.

Nineteen Hundred Corporation: *See*— Geldhof, P. E., and Ringer, assignors.

Nisbet, Robert H., Stroud, and W. G. Harding, Whitton, England, assignors to Sperry Gyroscope Company Incorporated, Brooklyn, N. Y. Control or regulating system employing fluid pressure. 2,390,119; Dec. 4.

Noma Electric Corporation: *See*— Larsen, Olai F., Jr., assignor.

Novotny, Emil E., Prospectville, assignor to Durite Plastics, Incorporated, Philadelphia, Pa. Manufacture of molded composition friction bodies. 2,390,266; Dec. 4.

O'Dwyer, Daniel M., London, England. Steering indicator device for vehicles. 2,390,317; Dec. 4.

Offutt, Claggett, Los Angeles, Calif. Rivet ejector. 2,390,318; Dec. 4.

O'Hare, Martin: *See*— Johnson, H. O., and O'Hare.

Opferman, Laurene P.: *See*— Fox, S. H., and Opferman.

Orthner, Ludwig, W. Luce, and G. Wagner, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Imine condensation process. 2,390,165; Dec. 4.

Overbeke, John W., assignor to Simmonds Aerocessories, Inc., New York, N. Y. Pressure vessel. 2,390,319; Dec. 4.

Overbeke, John W., assignor to Simmonds Aerocessories, Inc., New York, N. Y. Pressure vessel. 2,390,320; Dec. 4.

Pacific Mills: *See*— Barnard, K. K., and Frankfurt, assignors.

Packwood, Heza H., Reserve, La. Grass catching apparatus. 2,390,321; Dec. 4.

Page, Ralph E.: *See*— Ayres, W. A., and Page.

Parkins, Wright A., West Hartford, G. N. Cole, Manchester, Conn., and A. E. Smith, Kansas City, Kans., assignors to United Aircraft Corporation, East Hartford, Conn. Ignition timing. 2,390,166; Dec. 4.

Parmalee, A. F.: *See*— Moeller, William C., assignor.

Parr, Josephus O., Jr., assignor to Olive S. Petty, San Antonio, Tex. Seismic surveying. 2,390,322; Dec. 4.

Patrick, Walter A., Jr., and J. D. Elder; said Elder assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Dehydrating method and apparatus. 2,390,167; Dec. 4.

Paulsen, Grover C., Jr.: *See*— Sletzinger, M., and Paulsen.

Pearce, William E., Montreal, Quebec, Canada. Ski pole. 2,390,267; Dec. 4.

Pearson, Paul E., and A. Treff, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Apparatus for spraying container parts. 2,390,457; Dec. 4.

Peck, Edward B., Elizabeth, N. J., assignor to Standard Oil Development Company. Regeneration of spent catalysts. 2,390,323; Dec. 4.

Pedersen, Hayes N., Racine, Wis. Game. 2,390,458; Dec. 4.

Penney, Raymond A., assignor to St. Paul Hydraulic Hoist Company, Minneapolis, Minn. Truck elevator. 2,390,268; Dec. 4.

People in the territory of the United States, Dedicated to the free use of the: *See*— Hall, S. A., Travis, and Jones.

Peters, Fred D., Webb City, Okla., assignor to Phillips Petroleum Company. Automatic length adjuster. 2,390,324; Dec. 4.

Peters, John F., Leonia, N. J., assignor to American Can Company, New York, N. Y. Can body maker. 2,390,120; Dec. 4.

Peterson, Amos J., Berwyn, assignor to Club Aluminum Products Co., Chicago, Ill. Filter device for coffee maker. 2,390,269; Dec. 4.

Petrolite Corporation, Ltd.: *See*— De Groote, M., and Keiser, assignors. De Groote, Melvin, assignor.

Petty, Olive S.: *See*— Parr, Josephus O., Jr., assignor.

Phillips Petroleum Company: *See*— Peters, Fred D., assignor. Piety, Raymond G., assignor.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of surface prospecting. 2,390,270; Dec. 4.

Plot, Marius, Roanne, France; vested in the Alien Property Custodian. Device for clamping members to shafts. 2,390,168; Dec. 4.

Pittenger, Everett J.: *See*— Broyles, L. E., and Pittenger.

Pittsburgh Plate Glass Company: *See*— Moffett, E. W., and Smith, assignors.

Pogioli, Vittorio, Milan, Italy; vested in the Alien Property Custodian. Valveless engine. 2,390,169; Dec. 4.

Poole, Lora E., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Machine for assembling shafts and armature cores. 2,390,170; Dec. 4.

Poole, Ralph, London, England. Wind indicator. 2,390,384; Dec. 4.

Pooler, Earle E., assignor to himself and H. Boyer, Cambridge, Mass., and C. A. Crestensen, Stoughton, Mass. Mounting for lighting tubes. 2,390,385; Dec. 4.

Pott, Friedrich: *See*— Mez, E., Pott, and Heinze.

Poupitch, Ouglesa J., assignor to Illinois Tool Works, Chicago, Ill. Method and machine for assembling washers with screw-threaded fasteners. 2,390,121; Dec. 4.

Power, Michael J., Nekoosa, Wis. Apparatus for debarking and cleaning logs. 2,390,459; Dec. 4.

Power Research Corporation: *See*— Bowers, Thomas A., assignor.

Powers, Walter P., Newark, assignor to Associated Patentees, Inc., Ampere, N. J. Gauge. 2,390,122; Dec. 4.

Premier Crystal Laboratories, Inc.: *See*— Bach, Henry M., assignor.

Presser, Eric A. F., East Chicago, Ind. Double-acting kneader improvements. 2,390,460; Dec. 4.

Proudfoot, Oliver P.: *See*— Liljquist, A. E., and Proudfoot.

Pyrene Development Corporation: *See*— Timpson, Lewis G. M., assignor.

Racz, Michael, East Chicago, Ind. Blockade device. 2,390,461; Dec. 4.

Radford, George S., Norwalk, Conn., assignor to Nashua Manufacturing Company, Nashua, N. H. Napped fabric and method. 2,390,386; Dec. 4.

Radio Corporation of America: *See*— Guedon, Emile C., assignor. Hansell, Clarence W., assignor. Thomas, Harry E., assignor. Vasselli, Anthony J., assignor.

Rapp, Robert L., Burbank, Calif. Fastening device. 2,390,325; Dec. 4.

Rappl, Anton, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,390,271; Dec. 4.

Ratay, John P., Washington, D. C. Tube machine. 2,390,171; Dec. 4.

Rauch, Konrad: *See*—
Spurlino, P., and Rauch.

Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Burner control system. 2,390,172; Dec. 4.

Rayton, Wilbur B., Rochester, and L. M. Hudson, Brighton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Telephoto objective. 2,390,387; Dec. 4.

Rector, Thomas M., Morristown, N. J., assignor to General Foods Corporation, New York, N. Y. Method and apparatus for solvent extraction. 2,390,388; Dec. 4.

Redler, Arnold, Stroud, England. Cinematograph apparatus. 2,390,389; Dec. 4.

Rehberg, Chessie E., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Allyl and substituted allyl methacrylates. 2,390,326; Dec. 4.

Rehberg, Chessie E., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Allyl and substituted allyl acrylates. 2,390,327; Dec. 4.

Remington Rand Inc.: *See*—
Teichner, Robert W., assignor.

Research Corporation: *See*—
Cohn, Edwin J., assignor.

Resek, Jules V.: *See*—
Cleaver, J. C., and Resek.

Richey, David M., Devon, assignor to United Aircraft Corporation, East Hartford, Conn. Lock fastener. 2,390,173; Dec. 4.

Riesmeyer, August H., and V. M. Stowe, Collinsville, Ill., assignors to Aluminum Company of America, Pittsburgh, Pa. Purification of gelatinous hydroxides. 2,390,272; Dec. 4.

Rietz, Charles A.: *See*—
Jeuck, F. J., and Rietz.

Rietz, Charles A., Park Ridge, and F. J. Jeuck, Chicago, Ill., assignors to Interchemical Corporation, New York, N. Y. Printing inks and vehicles therefor. 2,390,123; Dec. 4.

Rietz, Charles A., Park Ridge, and F. J. Jeuck, Chicago, Ill., assignors to Interchemical Corporation, New York, N. Y. Heat drying printing inks and vehicles therefor. 2,390,390; Dec. 4.

Ring, Harold H.: *See*—
Hobson, S. H., and Ring.

Ringer, Luther: *See*—
Geldhof, P. E., and Ringer.

Ritter, Charles R. H., London, England. Iodization of textile fabrics. 2,390,391; Dec. 4.

Roberts, Robert J., Houston, Tex., assignor to Standard Oil Development Company. Directional seismograph pickup. 2,390,328; Dec. 4.

Roblin, Richard O., Jr.: *See*—
Anderson, G. W., and Roblin.

Roemer, George R., Mount Lebanon, Pa. Continuous manufacture of welded wire mesh. 2,390,174; Dec. 4.

Rogers, Edith H., executrix: *See*—
Schroder, W. L., and Rogers.

Rogers Majestic Corporation: *See*—
Gossling, Clement E., assignor.

Rogers, Thomas A.: *See*—
Schroder, W. L., and Rogers.

Rogos, Morris, Jackson Heights, N. Y. Diamond holding tool. 2,390,175; Dec. 4.

Röhm & Haas Company: *See*—
Sumner, John K., assignor.

Roning, Martin, St. Louis Park, and K. M. Keith, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Combine steering mechanism. 2,390,273; Dec. 4.

Roper, Geo. D., Corporation: *See*—
Hobson, S. H., and Ring, assignors.

Rose, Jess C., and G. E. Stankey, assignors to Bardwell & McAlister, Los Angeles, Calif. Pinch type bending roll method and means. 2,390,274; Dec. 4.

Rosenberg, Gordon W., Elkins Park, Pa. Fabric construction. 2,390,462; Dec. 4.

Ross, James F., Laredo, Tex. System of pumping wells. 2,390,124; Dec. 4.

Ross, James W., assignor to Hazel-Atlas Glass Company, Washington, Pa. Glass feeder. 2,390,176; Dec. 4.

Rossman, Allen M., Wilmette, Ill. Pull rod carrier. 2,390,177; Dec. 4.

Rotax Limited: *See*—
Tatlow, P., and Hulbert, assignors.

Roters, Herbert C., Roslyn, N. Y., assignor to Fairchild Aviation Corporation. Electrical control system. 2,390,463; Dec. 4.

Rous, Arthur, New York, N. Y. Carton and carton blank. 2,390,392; Dec. 4.

Rubin, Martin I.: *See*—
Sobotka, H. H., and Rubin.

Rubly, William, Indianapolis, Ind. Well casing cap. 2,390,393; Dec. 4.

Ruf, Herman P., New York, N. Y. Multiple winding and spooling device. 2,390,223; Dec. 4.

Runcie, Walter O., Lima, Peru. Built-in lens capping mechanism. 2,390,464; Dec. 4.

Runcie, Walter O., and G. M. Kessell, Lima, Peru. Darning attachment for sewing machines. 2,390,329; Dec. 4.

Runyon, Clinton A., Jr., Chicago, Ill. Clarinet attachment. 2,390,275; Dec. 4.

Russo, Florence, New York, N. Y. Undergarment. 2,390,465; Dec. 4.

Rutherford, Homer M., Centralia, Ill. Drilling rate recorder. 2,390,178; Dec. 4.

Rydberg, Fred A., Seattle, Wash. Construction design and shrink joint for ships. 2,390,330; Dec. 4.

Sacks, Charles H., Brooklyn, N. Y. Building construction. 2,390,179; Dec. 4.

Sahlberg, Wilhelm, Niesky, Oberlausitz, Germany; vested in the Alien Property Custodian. Wooden frame truss. 2,390,180; Dec. 4.

St. Clair, John M., Kansas City, Kans. Supporting electric cable. 2,390,192; Dec. 4.

St. Paul Hydraulic Hoist Company: *See*—
Penney, Raymond A., assignor.

Sams, Francis C., Bath, N. Y. Safety ball trap. 2,390,224; Dec. 4.

Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Cartridge belt link. 2,390,331; Dec. 4.

Sarthou, Henri, Saint-Gervais-les-Bains, France; vested in the Alien Property Custodian. Hinged ski. 2,390,181; Dec. 4.

Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Binder case construction for books. 2,390,125; Dec. 4.

Schifter, Joseph, assignor, by mesne assignments, to Columbia Blindstitch Machine Co., Inc., New York, N. Y. Sewing machine. 2,390,126; Dec. 4.

Schirrmeister, Hans, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Refrigerator equipped with motor-driven refrigerating apparatus of the compression type. 2,390,182; Dec. 4.

Schlumberger Well Surveying Corporation: *See*—
Aiken, Charles B., assignor.

Schmidt, Henry F., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Blower apparatus. 2,390,332; Dec. 4.

Schneckloth, Edward H., Davenport, Iowa. Combined fairing and chock for aircraft. 2,390,127; Dec. 4.

Schneider, Walter H., Ridgefield, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J. Drawing instrument. 2,390,466; Dec. 4.

Schnur, Mathew, Chicago, Ill. Lock. 2,390,467; Dec. 4.

Schroder, Walter L., Hortonville, and T. A. Rogers, deceased, by E. H. Rogers, Stevens Point, Wis., executrix. Canning green vegetables. 2,390,468; Dec. 4.

Schweda, Albert M.: *See*—
Le Vesconte, H. J., and Schweda.

Scott, Merle G.: *See*—
Woody, W. B., and Scott, assignors.

Scott, William M., Jr., Bryn Mawr, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Air blast circuit breaker and control therefor. 2,390,128; Dec. 4.

Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Air blast circuit breaker and control therefor. 2,390,333; Dec. 4.

Sealtest, Inc.: *See*—
Weisberg, S. M., Stimpson, and Miller, assignors.

Sedgwick Machine Works, Inc.: *See*—
Henricksen, Bjarne, assignor.

Seippel, H. M., trustee: *See*—
Engler, Robert J., assignor.

Selppel, Peter J.: *See*—
Engler, Robert J.

Selas Corporation of America: *See*—
Hess, Frederic O., assignor.

Seligman, Roger A. L., Paris, France; vested in the Alien Property Custodian. Stamping die. 2,390,183; Dec. 4.

Seng, Manfred, Berlin, Germany; vested in the Alien Property Custodian. Cool wet dressing with bandages. 2,390,184; Dec. 4.

Seymour, George W., and B. B. White, Cumberland, Md., assignors to Celanese Corporation of America. Production of mixed organic esters of cellulose. 2,390,185; Dec. 4.

Sharp, Renwick J., Guatemala, Guatemala. Portable whipping machine. 2,390,186; Dec. 4.

Sharpe, Joseph A., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Seismic surveying. 2,390,187; Dec. 4.

Sheepshanks, Richard H.: *See*—
Ballamy, Leslie M., assignor.

Shelton, Andrew B., Columbus, Ga. Picker for spinner frames. 2,390,469; Dec. 4.

Sherman, Laurence B., Glens Falls, N. Y., and C. R. Bartels, South Orange, assignors to National Oil Products Company, Harrison, N. J. Manufacture of cement. 2,390,225; Dec. 4.

Shobert, Samuel M., Flourtown, assignor, by mesne assignments, to Marco Chemicals, Inc., Sewaren, Pa. Casting apparatus and method. 2,390,129; Dec. 4.





Sholder, Morris, assignor to Form Fashion, Inc., Chicago, Ill. Blouse. 2,390,188; Dec. 4.

Sieb, Henry, Hammond, Ind. Conveyer structure. 2,390,276; Dec. 4.

Sigmund Corporation: *See*—
Sigmund, F. J., and Hiavin, assignors.

Sigmund, Frank J., and W. S. Hiavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Cooling means for dynamoelectric machine. 2,390,130; Dec. 4.

Silver, Harold F., Denver, Colo. Continuous diffusion process. 2,390,131; Dec. 4.

Simmonds Aerocessories, Inc.: *See*—
Overbeke, John W., assignor.

Simpkins, Carl R., Los Angeles, Calif., assignor to S. V. McConnell, Seattle, Wash. Wiener vending machine and process. 2,390,277; Dec. 4.

Sletzinger, Meyer, Bronx, N. Y., and G. C. Paulsen, Jr., Harrisonburg, Va., assignors to Merck & Co., Inc., Rahway, N. J. Production of tropic acid. 2,390,278; Dec. 4.

Smellie, Robert H.: *See*—
Krieble, V. K., and Smellie.

Smith, Albert F., and H. B. Stevenson, Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dry spinning process. 2,390,132; Dec. 4.

Smith, Arthur E.: *See*—
Parkins, W. A., Cole, and Smith.

Smith, Goble D., Dallas, Tex. Window. 2,390,394; Dec. 4.

Smith, Harold G., Chicago, assignor to The Buda Company, Harvey, Ill. Internal-combustion engine. 2,390,279; Dec. 4.

Smith, John P., Reidsville, N. C. Motor actuated eraser. 2,390,226; Dec. 4.

Smith, Roy E.: *See*—
Moffett, E. W., and Smith.

Smith, Walter G. L.: *See*—
Johnston, M. O., Andrew, Graham, and Smith.

Smith, William S., Hinsdale, Ill., assignor to Henry Pratt Company. Damper construction. 2,390,227; Dec. 4.

Snarey, George N., Warwick, assignor to Dowty Equipment Limited, Cheltenham, England. Aircraft retractable alighting gear. 2,390,334; Dec. 4.

Snyder, Raymond R., Toledo, Ohio, assignor to Automatic Turbine Drive Company, Inc. Turbine construction. 2,390,133; Dec. 4.

Sobotka, Harry H., and M. I. Rubin, New York, N. Y., assignors to Mount Sinai Hospital Research Foundation, Inc. Preparing hydroxy derivatives of aliphatic acids and new compounds produced thereby. 2,390,335; Dec. 4.

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Mastic composition. 2,390,189; Dec. 4.

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Chemical process and product. 2,390,190; Dec. 4.

Soltzberg, Sol, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Sorbitan and making the same. 2,390,395; Dec. 4.

Spearman, Lawrence A., Newberry, S. C. Athlete training apparatus. 2,390,336; Dec. 4.

Sperry Gyroscope Company Incorporated: *See*—
Nisbet, R. H., and Harding, assignors.

"Spiku"-Trust: *See*—
Suter, Alexander, assignor.

Spots, Chester A., Lachute, Quebec, Canada. Method and machine for making capsules particularly gelatin capsules. 2,390,337; Dec. 4.

Spurlino, Pascal, and K. Rauch, assignors to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,390,396; Dec. 4.

Stadler, Frank J., New York, N. Y. Dental x-ray film identifier. 2,390,397; Dec. 4.

Standard Oil Company: *See*—
Voorhees, V., and Watts, assignors.

Standard Oil Company, The: *See*—
Hughes, Everett C., assignor.

Standard Oil Development Company: *See*—
Gilbert, George R., assignor.
Mottern, Henry O., assignor.
Peck, Edward B., assignor.
Roberts, Robert J., assignor.
Young, David W., assignor.

Standard Railway Equipment Manufacturing Company: *See*—
Gilpin, Garth G., assignor.
Swann, James S., assignor.

Stankey, George E.: *See*—
Rose, J. C., and Stankey.

Stanolind Oil and Gas Company: *See*—
Sharpe, Joseph A., assignor.

Stanworth, John E., Sheffield, England, assignor to General Electric Company. Phosphate glass. 2,390,191; Dec. 4.

Stauffer Chemical Company: *See*—
Mohr, Albert C., assignor.

Steinmetz, Harry G., Port Chester, assignor to E. V. Hadley, New York, N. Y. Machine for applying strips of material to curved surfaces. 2,390,398; Dec. 4.

Steltenpohl, William R.: *See*—
Webb, Cecil E., assignor.

Stevenson, Halsey B.: *See*—
Smith, A. F., and Stevenson.

Stewart, Earle: *See*—
Kupiec, H. P., and Stewart.

Stimpson, Edwin G.: *See*—
Weisberg, S. M., Stimpson, and Miller.

Stoner-Mudge, Inc.: *See*—
Young, George H., assignor.

Stowe, Vernon M.: *See*—
Riesmeyer, A. H., and Stowe, assignors.

Submarine Signal Company: *See*—
Grabau, William C., assignor.

Sullivan Machinery Company: *See*—
Hayward, John A., assignor.

Sumner, John K., Langhorne, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa. Preparation of $\alpha$-$\beta$-dichloropropionitrile. 2,390,470; Dec. 4.

Suter, Alexander, Basel, Switzerland, assignor to "Spiku"-Trust, Vaduz, (Liechtenstein). Cylinder lock. 2,390,471; Dec. 4.

Svirsky, Bennett, Glendale, Calif. Ball cock valve structure. 2,390,134; Dec. 4.

Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Wall structure. 2,390,472; Dec. 4.

Sweeney, Hugh J.: *See*—
Neely, Charles A., assignor.

Swett, Adelbert P.: *See*—
Beckwith, E. L., and Swett.

Swiss firm of Society of Chemical Industry in Basle: *See*—
Albrecht, Otto, assignor.

Tandetzke, Karl, Berlin, Germany; vested in the Alien Property Custodian. Automobile roof. 2,390,193; Dec. 4.

Tarof, Ernest L., Cupsaw Lake, assignor to Kerlow Steel Flooring Company, Jersey City, N. J. Grating. 2,390,194; Dec. 4.

Tascher, Eugene S., Ingleside, Ill., assignor to National Biscuit Company, New York, N. Y. Flour duster. 2,390,195; Dec. 4.

Tatlow, Percy, and I. J. Hulbert, assignors to Rotax Limited, Willesden Junction, London, England. High-tension spark ignition magneto. 2,390,338; Dec. 4.

Tator, Kenneth, Fairfax County, Va., and G. Holmgren, Washington, D. C. Paper dispenser. 2,390,399; Dec. 4.

Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Suction cleaning apparatus. 2,390,196; Dec. 4.

Taylor, Claude C., et al.: *See*—
Gaffey, Edgar W., assignor.

Taylor, George E., Anniston, Ala., assignor to Monsanto Chemical Company. Production of sodium phosphates. 2,390,400; Dec. 4.

Teichner, Robert W., Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Talcum powder stick. 2,390,473; Dec. 4.

Teletype Corporation: *See*—
Gubisch, Erwin A., assignor.

Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical coupling network. 2,390,474; Dec. 4.

Thomas, Heinz: *See*—
Voss, A., Dietz, and Thomas.

Thomas, Milfred K., Birmingham, Ala. Antifreeze device. 2,390,475; Dec. 4.

Thompson, John R.: *See*—
Kirkpatrick, William C., assignor.

Thompson Products, Inc.: *See*—
Bredenbeck, Bill C., assignor.
Venditty, Anthony, assignor.

Thompson, Seth W., Essex Fells, N. J. Transmission gearing. 2,390,228; Dec. 4.

Thompson, Seth W., Essex Fells, N. J. Transmission gearing for crankshafts. 2,390,229; Dec. 4.

Thompson, Wilma: *See*—
Kirkpatrick, William C., assignor.

Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Sulphoaliphatic guanamines. 2,390,476; Dec. 4.

Timpson, Lewis G. M., Plainfield, N. J., assignor to Pyrene Development Corporation. Apparatus for projecting liquid jets. 2,390,280; Dec. 4.

Tishler, Max, Rahway, and R. H. Beutel, Newark, assignors to Merck & Co., Inc., Rahway, N. J. Brucinelactone compound. 2,390,281; Dec. 4.

Tobias, Herrmann B., Washington, D. C. Double swivel bracket for outboard motors. 2,390,135; Dec. 4.

Toledo Scale company: *See*—
Mefferd, Paul H., assignor.
Williams, Lawrence S., assignor.

Tour, Sam, and A. E. Howe, New York, N. Y., assignors, by mesne assignments, to said Tour. Electrolytic barrel pickling and polishing. 2,390,282; Dec. 4.

Travis, Bernard V.: *See*—
Hall, S. A., Travis, and Jones.

Treff, Alfred: *See*—
Pearson, P. E., and Treff.

Trexler, Richard R., Evanston, Ill. Liquid dispensing apparatus. 2,390,136; Dec. 4.

Trico Products Corporation: *See*—
Rappl, A., and Horton, assignors.

Troller, Theodor H.: *See*—
Adams, T. O., Jr., and Troller.

Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Ordnance. 2,390,401; Dec. 4.

Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Machine gun feed mechanism. 2,390,477; Dec. 4.

Trusty, Harry P., Los Angeles, Calif. Automatic parachute delivery mechanism for aircraft. 2,390,230; Dec. 4.

Uhlig, Herbert H., Schenectady, N. Y., assignor to General Electric Company. Passivating stainless steels. 2,390,402; Dec. 4.

Ullman, Robert, New York, N. Y., and F. Brauner, Laurelton, N. J.; said Brauner, assignor to said Ullman. Magnetic hand tool. 2,390,339; Dec. 4.

Union Special Machine Company: *See*—
Le Vesconte, H. J., and Schweda, assignors.

Union Switch and Signal Company, The: *See*—
Clark, Gerald T., assignor.

United Aircraft Corporation: *See*—
Hasbrouck, John S., assignor.
Parkins, W. A., Cole, and Smith, assignors.
Richey, D. M., assignor.

United Gas Improvement Company, The: *See*—
Soday, Frank J., assignor.

United Shoe Machinery Corporation: *See*—
Gookin, Sylvester L., assignor.

Universal Oil Products Company: *See*—
Zimmerman, Gordon B., assignor.

Utz, Chester C., Magnolia (Redford Station), assignor to Chrysler Corporation, Highland Park, Mich. Steering mechanism. 2,390,231; Dec. 4.

Vallandigham, Vance V., assignor to Coe Laboratories, Inc., Chicago, Ill. Impression material. 2,390,137; Dec. 4.

Vallandigham, Vance V., Park Ridge, assignor to Coe Laboratories, Inc., Chicago, Ill. Conditioning gel molds. 2,390,138; Dec. 4.

Van der Rest, Gerard, Carmel-by-the-Sea, Calif. Method and apparatus for the launching of revetment mats. 2,390,403; Dec. 4.

Vasselli, Anthony J., Newark, N. J., assignor to Radio Corporation of America. Lead wire threading machine. 2,390,139; Dec. 4.

Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Clamp. 2,390,232; Dec. 4.

Voorhees, Vanderveer, Homewood and G. W. Watts, Flossmoor, assignors to Standard Oil Company, Chicago, Ill. Removing coke. 2,390,197; Dec. 4.

Voss, Arthur, deceased, by H. Voss, Frankfort-on-the-Main, administratrix, and K. Dietz, Kronberg in Taunus, and H. Thomas, Hofheim in Taunus, Germany; vested in the Alien Property Custodian. Hardenable resin composition. 2,390,198; Dec. 4.

Voss, Hedwig, administratrix: *See*—
Voss, A., Dietz, and Thomas.

Wagner, George: *See*—
Orthner, L., Luce, and Wagner.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread accumulator for weft replenishing looms. 2,390,478; Dec. 4.

Walker, Victor, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y. Manufacturing optical lenses and the like. 2,390,404; Dec. 4.

Walker, Victor, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y. Processing barium containing glass stock to produce optical elements or the like. 2,390,405; Dec. 4.

Walsh, James A., West Haven, Conn. Inflatable life raft. 2,390,199; Dec. 4.

Walsh, James L.: *See*—
Watson, A. K., Lewis, and Walsh.

Ward, D. W., et al.: *See*—
Gaffey, Edgar W., assignor.

Watson, Arthur K., New Canaan, Conn., W. L. Lewis, Binghamton, N. Y., and J. L. Walsh, Washington, D. C., assignors to International Business Machines Corporation, New York, N. Y. Mobile accounting device. 2,390,479; Dec. 4.

Watts, George W.: *See*—
Voorhees, V., and Watts.

Webb, Cecil E., Norwood, assignor to William R. Steltenpohl, Cincinnati, Ohio. Batt covering machine. 2,390,340; Dec. 4.

Webster Electric Company: *See*—
Campbell, Richard H., assignor.

Wegst, Walter F., R. McNabney, and L. R. Bacon, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Alkaline composition of matter. 2,390,406; Dec. 4.

Weisberg, Samuel M., and E. G. Stimpson, Baltimore, Md., and A. L. Miller, State College, Pa., assignors to Sealtest, Inc., Baltimore, Md. Preparation of alkyl lactates. 2,390,140; Dec. 4.

Well Surveys, Incorporated: *See*—
Fearon, Robert E., assignor.

West, Byron L., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Metallized azo triazoles. 2,390,480; Dec. 4.

Westinghouse Electric Corporation: *See*—
French, Ralph T., assignor.
Kessler, Wilbur, assignor.
Schmidt, Henry F., assignor.
Taylor, Charles H., assignor.

White, Blanche B.: *See*—
Seymour, G. W., and White.

Whiteman, Charles E.: *See*—
Bailey, W. J., and Whiteman.

Whitner, Thomas C., Elizabeth, N. J., assignor to Chemical Laboratories, Inc. Modified formaldehyde-acetone resin and making same. 2,390,481; Dec. 4.

Wiggins, John H., Chicago, Ill. Drainage means for floating tank roofs. 2,390,141; Dec. 4.

Wilcolator Company, The: *See*—
Graves, Theodore E., assignor.

Wilkins, Howard W., Warren, assignor to The Murray Corporation of America, Detroit, Mich. Spring forming machine. 2,390,283; Dec. 4.

Williams, Dan T., Robinson, assignor of one-fourth to G. W. Miller, Oblong, and one-sixteenth to C. E. Jones, Robinson, Ill. Gyroscopic power transmission. 2,390,341; Dec. 4.

Williams, Lawrence S., Toledo, Ohio, assignor to Toledo Scale Company. Printing scale. 2,390,482; Dec. 4.

Williams, Virginia R.: *See*—
Fieger, E. A., and Williams.

Willis, Cecil H. N. R., assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada. Dispensing container for roll paper. 2,390,407; Dec. 4.

Wingert, Paul, Montpelier, Ohio. Internal construction for stoves and furnaces. 2,390,483; Dec. 4.

Wingfoot Corporation: *See*—
Carson, Clarence M., assignor.

Witkower, Max, Los Angeles, Calif. Brassière. 2,390,142; Dec. 4.

Woginrich, Joseph, Walnutport, Pa. Convertible velocipede. 2,390,484; Dec. 4.

Woloschak, Konstantin: *See*—
Lindsay, M. H. A. and Woloschak.

Woody, Wayland B., and Merle G. Scott, assignors to Franks Manufacturing Corporation, Tulsa, Okla. Derrick structure. 2,390,284; Dec. 4.

Wright-Batcheider Corporation: *See*—
Wright, Wallace C., assignor.

Wright, Thomas O.: *See*—
Keen, H. H., and Wright.

Wright, Wallace C., Brookfield, N. H., assignor to Wright-Batcheider Corporation, Boston, Mass. Shoe and welt therefor. 2,390,485; Dec. 4.

Wünsch, Guido, Berlin-Wannsee, Germany; vested in the Alien Property Custodian. Controlling or regulating device for internal-combustion engines. 2,390,143; Dec. 4.

Wyandotte Chemicals Corporation: *See*—
Wegst, W. F., McNabney, and Bacon, assignors.

York, Otto H., Maplewood, assignor to Metal Textile Corporation, West Orange, N. J. Nonraveling edge, reinforcing rib of joint structure for knitted metallic mesh fabrics and method of producing same. 2,390,200; Dec. 4.

Young, David W., Roselle, N. J., assignor to Standard Oil Development Company. Compounded hydrocarbon products. 2,390,342; Dec. 4.

Young, George H., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa. Antifouling composition. 2,390,408; Dec. 4.

Zimmerman, Gordon B., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,390,285; Dec. 4.


# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).


Devitalizing composition of matter. P. Müller. Re. 22,700; Dec. 4.

Liquid clarification. E. M. Kelly, A. M. Kivari, R. P. Kite, E. J. Roberts, and D. B. Sutherland. Re. 22,701; Dec. 4.

Printing press. W. W. Davidson. Re. 22,702; Dec. 4.


# LIST OF DESIGN INVENTIONS


Actuator for airplane wing flaps, Automatic. W. P. Lear and J. M. Wehner. 143,080; Dec. 4.

Basket. M. Rajah. 143,095; Dec. 4.

Battery tester and charger, Combined. J. D. Maultsby, Jr. 143,088; Dec. 4.

Billfold. W. A. Pence. 143,093; Dec. 4.

Bowl. E. Lowdermilk. 143,086; Dec. 4.

Box, Shoe shine. J. T. Pearson, Jr. 143,092; Dec. 4.

Breathing apparatus. J. B Littlefield, J. H. Schneider, and W. P. Yant. 143,084–5; Dec. 4.

Breathing apparatus. J. H Schneider. 143,097; Dec. 4.

Broom frame, Road. W. H. Lewis. 143,083; Dec. 4.

C-clamp. A. M. Sasgen. 143,096; Dec. 4.

Canister, Air purifying. W. P. Yant and K. B. Ray. 143,102; Dec. 4.

Compact. J. Casalino. 143,058; Dec. 4.

Cutting machine. W. A. Phillis. 143,094; Dec. 4.

Die casting machine. A. R. Mills. 143,089; Dec. 4.

Dress. E. Cutler. 143,062–5; Dec. 4.

Dress. J. Glad. 143,068–71; Dec. 4.

Handbag. F. X. Hiltenbrand. 143,073; Dec. 4.

Handle, Valve. J. Stanits. 143,100; Dec. 4.

Hanger, Spring-clip. G. Yates. 143,103; Dec. 4.

Housing for threshing and separating mechanism of a harvester-thresher. C. J. Scranton. 143,098; Dec. 4.

Lavatory. W. G. Young. 143,104; Dec. 4.

Lighting fixture, Fluorescent. G. J. Creed. 143,061; Dec. 4.

Panel, Refrigerator. W. S. Connell. 143,060; Dec. 4.

Pipe. H. R. Maid. 143,087; Dec. 4.

Plastic unit for use on handbags or the like. R. S. Temko. 143,101; Dec. 4.

Press, Dental. J. J. Ingle. 143,074; Dec. 4.

Pressure cooker door and securing apparatus, Combined. E. J. Le Claire. 143,081; Dec. 4.

Projector. L. Geis. 143,067; Dec. 4.

Pump or similar article, Bilge. T. Langan. 143,078–9; Dec. 4.

Shield, Eye. D. E. Kimball. 143,077; Dec. 4.

Sign. G. A. Heike. 143,072; Dec. 4.

Stand for grinding wheels and similar articles, Display. E. B. Gallaher. 143,066; Dec. 4.

Strainer. W. C. P. Zabel and R. C. Helfenbein. 143,105; Dec. 4.

Suit, Bathing. T. Leser. 143,082; Dec. 4.

Tool, Pipe cutting. C. H. Ingwer. 143,075; Dec. 4.

Toy automobile or the like. J. L. Stack, Jr. 143,099; Dec. 4.

Toy, Hand. E. W. Coble. 143,059; Dec. 4.

Toy musical merry-go-round. M. Kellerman. 143,076; Dec. 4.

Tray or similar article, Ash. W. C. Panzer. 143,091; Dec. 4.

Welding machine, Stud. T. Nelson. 143,090; Dec. 4.

# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting device, Mobile. A. K. Watson, W. L. Lewis, and J. L. Walsh. 2,390,479; Dec. 4.
Accounting machine. P. Spurlino and K. Rauch. 2,390,396; Dec. 4.
Accounting machine, Typewriting. E. Mez, F. Pott, and W. Heinze. 2,390,163; Dec. 4.
Acenaphthylene, Production of. R. G. Flowers. 2,390,363; Dec. 4.
Acid, Production of tropic. M. Sletzinger and G. C. Paulsen, Jr. 2,390,278; Dec. 4.
Acid recovery process. H. O. Mottern. 2,390,316; Dec. 4.
Acoustical structure. J. Mazer. 2,390,262; Dec. 4.
Adding and subtracting mechanism. H. H. Keef and T. O. Wright. 2,390,441; Dec. 4.
Adjustable pitch propeller mechanism. T. O. Adams, Jr., and T. H. Troller. 2,390,068; Dec. 4.
Aerating apparatus. L. H. Logue. 2,390,111; Dec. 4.
Air brake. W. A. Baldwin. 2,390,049; Dec. 4.
Aircraft retractable alighting gear. G. N. Snarey. 2,390,334; Dec. 4.
Airplane heating means. F. O. Hess 2,390,255; Dec. 4.
Airplane power plant. P. E. Mercier. 2,390,161; Dec. 4.
Airplane wing deicing means. M. E. Garrison. 2,390,093; Dec. 4.
Alarm system. M. H. A. Lindsay and K. Woloschak. 2,390,221; Dec. 4.
Alarm system. A. N. Montgomery. 2,390,449; Dec. 4.
Alkaline composition of matter. W. F. Wegst, R. McNabney, and L. R. Bacon. 2,390,406; Dec. 4.
Alkyl lactates, Preparation of. S. M. Weisberg, E. G. Stimpson, and A. L. Miller. 2,390,140; Dec. 4.
Allyl and substituted allyl acrylates. C. H. Rehberg and C. H. Fisher. 2,390,327; Dec. 4.
Allyl and substituted allyl methacrylates. C. E. Rehberg and C. H. Fisher. 2,390,326; Dec. 4.
Aluminum-magnesium alloys, Quenching of. W. A. Dean. 2,390,238; Dec. 4.
Andiron, Fireplane. W. Murdock. 2,390,453; Dec. 4.
Annunciator, Record controlled. W. J. Bailey and C. E. Whiteman. 2,390,415; Dec. 4.
Antifoaming agents. J. H. Fritz. 2,390,212; Dec. 4.
Antifreeze device. M. K. Thomas. 2,390,475; Dec. 4.
Apparatus for debarking and cleaning logs. M. J. Power. 2,390,459; Dec. 4.
Apparatus for determining permeabilities of porous media. J. T. Hayward. 2,390,252; Dec. 4.
Apparatus for filling containers. R. B. McKinnis. 2,390,443; Dec. 4.
Apparatus for musical instruments, Tuning. N. Bryant. 2,390,237; Dec. 4.
Apparatus for preparation of carbon. W. C. Goss. 2,390,067; Dec. 4.
Apparatus for projecting liquid jets. L. G. M. Timpson. 2,390,280; Dec. 4.
Apparatus for purifying light metals. R. J. McNitt. 2,390,115; Dec. 4.
Apparatus for spraying container parts. P. E. Pearson and A. Treff. 2,390,457; Dec. 4.
Article of footwear, Sacculated. E. F. Allen. 2,390,287; Dec. 4.
Article transferring apparatus. R. J. Engler. 2,390,242; Dec. 4.
Athlete training apparatus. L. A. Spearman. 2,390,336; Dec. 4.
Attachment for nail files, Nail cleaning. R. C. McRoberts. 2,390,381; Dec. 4.
Attachment- for tractors, Dump scoop. F. B. Arps. 2,390,040; Dec. 4.
Automatic battery charging system. S. A. Johnston. 2,390,151; Dec. 4.
Automatic control equipment. H. Bany. 2,390,345; Dec. 4.
Automatic length adjuster. F. D. Peters. 2,390,324; Dec. 4.
Automatic parachute delivery mechanism for aircraft. H. P. Trusty. 2,390,230; Dec. 4.
Automatic washers, Floating supporting structures for. P. E. Geldhof and L. Ringer. 2,390,213; Dec. 4.
Automotive vehicle. H. A. King. 2,390,260; Dec. 4.
Aviator's suit and helmet and means for controlling gas pressure and oxygen delivery therein, Sealed. J. D. Akerman, W. M. Boothby, A. H. Bulbulian, and W. R. Lovelace, II. 2,390,233; Dec. 4.
Azo dyestuffs, Substantive. E. Keller. 2,390,152; Dec. 4.
Azo triazoles, Metallized. B. L. West. 2,390,480; Dec. 4.
Bag closure. J. W. Carter. 2,390,423; Dec. 4.
Barium containing glass stock to produce optical elements or the like, Processing. V. Walker. 2,390,405; Dec. 4.
Base, Moistureproof. T. W. Keller. 2,390,308; Dec. 4.
Bead locking ring. F. Herregh. 2,390,303; Dec. 4.
Bearing assembly, Self-aligning. S. Bousky. 2,390,353; Dec. 4.
Blockade device. M. Racz. 2,390,461; Dec. 4.
Blouse. M. Shoulder. 2,390,188; Dec. 4.
Blower apparatus. H. F. Schmidt. 2,390,332; Dec. 4.
Brake: *See*—
  Fishing line reel brake. Hydraulic brake.
Brassière. M. Witkower. 2,390,142; Dec. 4.
Brucine-lacone compound. M. Tishler and R. H. Beutel. 2,390,281; Dec. 4.
Brushes and the like, Production of. R. F. Hayes. 2,390,437; Dec. 4.
Building construction. C. H. Sacks. 2,390,179; Dec. 4.
Building structure. J. H. Brown. 2,390,418; Dec. 4.
Burner: *See*—
  Liquid fuel burner. Oil burner.
Burner control system. W. A. Ray. 2,390,172; Dec. 4.
Calculating machine. H. T. Avery and T. H. Lassagne. 2,390,041; Dec. 4.
Can body maker. J. F. Peters. 2,390,120; Dec. 4.
Canning green vegetables. W. L. Schroder and T. A. Rogers. 2,390,468; Dec. 4.
Cap: *See*—
  Well casing cap.
Capsules particularly gelatine capsules, Method and machine for making. C. A. Spotz. 2,390,337; Dec. 4.
Carboxylic anhydrides, Preparing. V. K. Krieble and R. H. Smellie. 2,390,106; Dec. 4.
Card holding attachment. M. B. Disken. 2,390,357; Dec. 4.
Carrier: *See*—
  Pull rod carrier.
Carton. A. H. Axberg. 2,390,412; Dec. 4.
Carton and carton blank. A. Rous. 2,390,392; Dec. 4.
Case construction for books, Binder. F. S. Schade. 2,390,125; Dec. 4.
Casting apparatus and method. S. M. Shobert. 2,390,129; Dec. 4.
Casting device. L. E. Broyles and E. J. Pittenger. 2,390,054; Dec. 4.
Catalysts, Regenerating of spent. E. B. Peck. 2,390,323; Catheters and the like, Adhesion preventing agent for. J. M. Auzin. 2,390,070; Dec. 4.
Cathode ray tube and circuit. C. W. Hansell. 2,390,250; Dec. 4.
Cement, Manufacture of. L. R. Sherman and C. R. Bartels. 2,390,225; Dec. 4.
Chain: *See*—
  Cutter chain.
Chair: *See*—
  Swivel chair.
Chemical process. J. Harmon. 2,390,099; Dec. 4.
Chemical process and product. F. J. Soday. 2,390,190; Dec. 4.
Chlorine dioxide and nitrogen oxides, Preparation of. C. H. Evans. 2,390,432; Dec. 4.
Chute for hay balers, Discharge. S. H. Hunziker. 2,390,306; Dec. 4.
Cinematograph apparatus. A. Redler. 2,390,389; Dec. 4.
Circuit: *See*—
  Cathode ray tube and circuit.
Circuit breaker and control therefor, Air blast. W. M. Scott, Jr. 2,390,128; Dec. 4.
Circuit breaker and control therefor, Air blast. W. M. Scott, Jr. 2,390,333; Dec. 4.
Clamp. A. Venditty. 2,390,232; Dec. 4.
Clarinet attachment. C. A. Runyon, Jr. 2,390,275; Dec. 4.
Closure operating mechanism. W. D. Ferris. 2,390,086; Dec. 4.
Coating and coating methods. J. L. Krieger. 2,390,217; Dec. 4.
Coating composition, Producing a. C. M. Carson 2,390,422; Dec. 4.
Coating, Lead. E. J. Kalil. 2,390,440; Dec. 4.
Coating machine. J. H. Murch. 2,390,118; Dec. 4.
Coinholder. M. Cooper. 2,390,057; Dec. 4.
Coke, Removing. V. Voorhees and G. W. Watts. 2,390,197; Dec. 4.
Combination booster pump. R. R. Curtis. 2,390,204; Dec. 4.
Combine steering mechanism. M. Ronning and K. M. Keith. 2,390,273; Dec. 4.
Combined check valve and vacuum breaker. J. D. Langdon. 2,390,108; Dec. 4.
Communication system. R. H. Campbell. 2,390,203; Dec. 4.
Composite metal stock, Producing. W. A. Mudge. 2,390,452; Dec. 4.





Composite siding and roofing, Making. F. W. Adams. 2,390,045; Dec. 4.
Composition, Antifouling. G. H. Young. 2,390,408; Dec. 4.
Computing machine, Record controlled. A. H. Dickinson. 2,390,427; Dec. 4.
Condensation products and producing same. R. Kern. 2,390,153; Dec. 4.
Construction design and shrink joint for ships. F. A. Rydberg. 2,390,330; Dec. 4.
Container. N. Geertsen. 2,390,094; Dec. 4.
Continuous diffusion process. H. F. Silver. 2,390,131; Dec. 4.
Control apparatus. D. M. Borden. 2,390,043; Dec. 4.
Control apparatus. S. Crum. 2,390,425; Dec. 4.
Control device, Ignition timing. J. S. Hasbrouck. 2,390,146; Dec. 4.
Control mechanism. C. A. Arens. 2,390,069; Dec. 4.
Control or regulating system employing fluid pressure. R. H. Nisbet and W. G. Harding. 2,390,119; Dec. 4.
Control system, Speed. C. E. Gossling. 2,390,144; Dec. 4.
Controller for lifting magnets. A. E. Lilquist and O. P. Proudfoot. 2,390,377; Dec. 4.
Converting ore, Method and apparatus for. W. C. Kirkpatrick. 2,390,105; Dec. 4.
Conveyer. B. Henricksen. 2,390,302; Dec. 4.
Conveyer. F. J. Le Roy. 2,390,261; Dec. 4.
Conveyer, Bake oven. J. R. Naibach. 2,390,455; Dec. 4.
Conveyer for ovens. G. J. Dawn. 2,390,075; Dec. 4.
Conveyer structure. H. Sieb. 2,390,276; Dec. 4.
Cooling and dehydrating apparatus. H. J. Kaufman. 2,390,104; Dec. 4.
Corn cutter and sled wagon. E. L. Fester. 2,390,245; Dec. 4.
Counting mechanism. W. H. De Lancey. 2,390,239; Dec. 4.
Counting mechanism. P. H. Mefferd. 2,390,444; Dec. 4.
Cover for gas ranges, Safety lockable. M. Applebaum. 2,390,234; Dec. 4.
Covering, Building. J. E. Black. 2,390,348; Dec. 4.
Covering machine, Batt. C. E. Webb. 2,390,340; Dec. 4.
Crankshafts, Transmission gearing for. S. W. Thompson. 2,390,229; Dec. 4.
Cutter chain. J. A. Hayward. 2,390,251; Dec. 4.
Cutter unit and assembly, Milling. W. A. Henkle. 2,390,254; Dec. 4.
Cutting machine. G. O. Langenberg. 2,390,376; Dec. 4.
Cylinder lock. A. Suter. 2,390,471; Dec. 4.
Damper construction. W. S. Smith. 2,390,227; Dec. 4.
Dehydrating method and apparatus. W. A. Patrick, Jr., and J. D. Elder. 2,390,167; Dec. 4.
Dental X-ray film identifier. F. J. Stadler. 2,390,397; Dec. 4.
Derrick structure. W. B. Woody and M. G. Scott. 2,390,284; Dec. 4.
Determining and recording the stresses in wire ropes, chains, etc. H. Hitchen. 2,390,304; Dec. 4.
Device for clamping members to shafts. M. Piot. 2,390,168; Dec. 4.
Device for internal-combustion engines, Controlling or regulating. G. Wünsch. 2,390,143; Dec. 4.
Device for stirring melts. H. Bernstorff and A. Allendörfer. 2,390,052; Dec. 4.
Device for testing coins. W. Hatton. 2,390,147; Dec. 4.
Diamond holding tool. M. Rogos. 2,390,175; Dec. 4.
Die: *See*—
  Stamping die.
Die-casting machine. A. R. Mills. 2,390,263; Dec. 4.
Disappearing hanger. W. K. Jahn. 2,390,257; Dec. 4.
Dispenser: *See*—
  Paper dispenser.
Dispenser. W. C. Moeller. 2,390,448; Dec. 4.
Dispensing apparatus, Liquid. R. R. Trexler. 2,390,136; Dec. 4.
Dispensing container for roll paper. C. H. N. R. Willis. 2,390,407; Dec. 4.
Dispensing device for paste tubes. W. B. Massey. 2,390,314; Dec. 4.
Door construction, Rolling. N. Michelman. 2,390,116–17; Dec. 4.
Drainage means for floating tank roofs. J. H. Wiggins. 2,390,141; Dec. 4.
Drawstring for trouser legs. J. De Grasia. 2,390,077; Dec. 4.
Drawing instrument. W. H. Schneider. 2,390,466; Dec. 4.
Dressing with bandages, Cool wet. M. Seng. 2,390,184; Dec. 4.
Drier: *See*—
  Tenter drier.
Dry dock, Shock-absorbing floating. F. R. Harris. 2,390,300; Dec. 4.
Drilling machine. W. B. Burke. 2,390,420; Dec. 4.
Duster, Flour. E. S. Tascher. 2,391,195; Dec. 4.
Dynamoelectric machine, Cooling means for. F. J. Sigmund and W. S. Hlavin. 2,390,130; Dec. 4.
Ejector, Rivet. C. Offutt. 2,390,318; Dec. 4.
Electric cable, Supporting. J. N. St. Clair. 2,390,192; Dec. 4.
Electric switch. E. H. Ayers and A. G. Elmendorf. 2,390,344; Dec. 4.
Electric switch. R. W. Goff. 2,390,365; Dec. 4.
Electric switch. T. E. Graves. 2,390,145; Dec. 4.
Electrical control system. H. C. Roters. 2,390,463; Dec. 4.
Electrical coupling network. H. E. Thomas. 2,390,474; Dec. 4.
Electrical logging. C. B. Aiken. 2,390,409; Dec. 4.
Electrolysis of fused baths. R. J. McNitt. 2,390,114; Dec. 4.
Electrolytic barrel pickling and polishing. S. Tour and A. E. Howe. 2,390,282; Dec. 4.
Elevator, Portable. R. C. Adams. 2,390,286; Dec. 4.
Elevator, Truck. R. A. Penney. 2,390,268; Dec. 4.
Enamel composition, Glass. C. J. Harbert and W. C. Morris. 2,390,366; Dec. 4.
Engine: *See*—
  Internal-combustion engine.
  Valveless engine.
Enteric gelatin capsule shell or envelope. S. H. Fox and L. P. Opferman. 2,390,088; Dec. 4.
Eraser, Motor actuated. J. P. Smith. 2,390,226; Dec. 4.
Esters of cellulose, Production of mixed organic. G. W. Seymour and B. B. White. 2,390,185; Dec. 4.
Expander, Piston skirt. A. W. Engberg. 2,390,431; Dec. 4.
Fabric and method, Napped. G. S. Radford. 2,390,386; Dec. 4.
Fabric construction. G. W. Rosenberg. 2,390,462; Dec. 4.
Fairing and chock for aircraft, Combined. E. H. Schneckloth. 2,390,127; Dec. 4.
Fan, Air circulating. L. A. Gutkin. 2,390,299; Dec. 4.
Fastener: *See*—
  Lock fastener.
Fastening device. R. L. Rapp. 2,390,325; Dec. 4.
Feeder: *See*—
  Glass feeder.
Fiber container or other fiber articles, Producing potential openings in a. R. G. Beaton. 2,390,072; Dec. 4.
Fibrous textile materials fast to slipping, Rendering. O. Albrecht. 2,390,046; Dec. 4.
Film mount slide. J. J. Bradford. 2,390,053; Dec. 4.
Filter devices for coffee makers. A. J. Peterson. 2,390,269; Dec. 4.
Firearms, Disconnector means in self-charging. H. E. Eklund. 2,390,061; Dec. 4.
Fishing line reel brake. D. Dileo. 2,390,356; Dec. 4.
Flow regulating system. D. M. Lawrence and S. K. Lehman. 2,390,487; Dec. 4.
Frame truss, Wooden. W. Sahlberg. 2,390,180; Dec. 4.
Fuse-setting apparatus. A. H. Musson and V. P. Harvey. 2,390,382; Dec. 4.
Game. H. N. Pedersen. 2,390,458; Dec. 4.
Garment construction. S. Nehf. 2,390,456; Dec. 4.
Gas and liquid mixer. C. D. Macgill. 2,390,313; Dec. 4.
Gas powered model airplane control line apparatus. A. S. Kelecius. 2,390,307; Dec. 4.
Gas producer by solid fuel, and suitable to feed gas motors, and especially auto motors. E. U. D'Accadia. 2,390,058; Dec. 4.
Gas purification. H. L. Gilmore. 2,390,297; Dec. 4.
Gauge. W. P. Powers. 2,390,122; Dec. 4.
Gear: *See*—
  Aircraft retractable alighting gear.
Gelatinous hydroxides, Purification of. A. H. Biesmeyer and V. M. Stowe. 2,390,272; Dec. 4.
Glass feeder. J. W. Ross. 2,390,176; Dec. 4.
Glass, Molding. C. W. Clapp. 2,390,354; Dec. 4.
Glass, Phosphate. J. E. Stanworth. 2,390,191; Dec. 4.
Grab used for boring wells. P. J.-M. T. Allard. 2,390,047; Dec. 4.
Grass catching apparatus. H. H. Packwood. 2,390,321; Dec. 4.
Grating. E. L. Tarof. 2,390,194; Dec. 4.
Greases, Lithium base. J. D. Morgan. 2,390,450; Dec. 4.
Hair treatment. J. B. Calva. 2,390,073; Dec. 4.
Handbag frame strip for attaching bag material to bag frames. G. S. Merk. 2,390,315; Dec. 4.
Handling and pressing means and method. I. F. Laucks, E. H. Merritt, W. D. Lawshe, and T. W. Dike. 2,390,159; Dec. 4.
Hanger: *See*—
  Disappearing hanger.
Harvester, Peanut plant. W. T., W. L., and L. C. Brown. 2,390,419; Dec. 4.
Hat, Paper. I. Gardner. 2,390,064; Dec. 4.
Head protector. S. E. Bouchard. 2,390,352; Dec. 4.
Hearing aid device. F. J. Faltico. 2,390,243; Dec. 4.
Heat exchanger. A. Y. Gunter. 2,390,436; Dec. 4.
Heater. H. J. De N. McCollum. 2,390,380; Dec. 4.
Heating apparatus. C. J. Davies. 2,390,208; Dec. 4.
Hemp turning machine. J. B. Kneera. 2,390,375; Dec. 4.
Holder: *See*—
  Coin holder.
Holder and insulator for electric fence wire. D. F. Hunter. 2,390,305; Dec. 4.
Holder for upright staffs and the like. F. A. Burton. 2,390,292; Dec. 4.
Holders, Film. E. G. Forssell. 2,390,211; Dec. 4.
Hot top. R. G. Jones and G. O. Leach. 2,390,373; Dec. 4.
Hydraulic brake. H. P. Kupiec and E. Stewart. 2,390,311; Dec. 4.
Hydraulic pressure fluid. D. L. Katz and A. K. Esterer. 2,390,258; Dec. 4.

Hydrocarbon polymerization. E. C. Hughes. 2,390,100; Dec. 4.
Hydrocarbon products, Compounded. D. W. Young. 2,390,342; Dec. 4.
Hydrocarbons, Catalytic conversion of. D. K. Finlayson. 2,390,244; Dec. 4.
Hydrocarbons, Conversion of. G. B. Zimmerman. 2,390,285; Dec. 4.
Hydroxy derivatives of aliphatic acids and new compounds produced thereby, Preparing. H. H. Sobotka and M. I. Rubin. 2,390,335; Dec. 4.
Ignition timing. W. A. Parkins, G. N. Cole, and A. E. Smith. 2,390,166; Dec. 4.
Imine condensation process. L. Orthner, W. Luce, and G. Wagner. 2,390,165; Dec. 4.
Impression material. V. V. Vallandigham. 2,390,137; Dec. 4.
Indicator: *See*—
Wind indicator.
Infusion package manufacture. L. Barnett. 2,390,071; Dec. 4.
Inks and vehicles therefor, Heat drying printing. C. A. Rietz and F. J. Jeuck. 2,390,390; Dec. 4.
Inks and vehicles therefor, Printing. C. A. Rietz and F. J. Jeuck. 2,390,123; Dec. 4.
Inks, Printing. F. J. Jeuck and C. A. Rietz. 2,390,102; Dec. 4.
Insect-repellent composition. S. A. Hall, V. Travis, and H. A. Jones. 2,390,249; Dec. 4.
Internal-combustion engine. H. G. Smith. 2,390,279; Dec. 4.
Jacket removing plug. M. Glassner. 2,390,298; Dec. 4.
Joint: *See*—
Oil tight joint.
Kneader improvements, Double-acting. E. A. F. Presser. 2,390,460; Dec. 4.
Lactonitrile acetate, Preparation of. V. L. Hansley and J. E. Bristol. 2,390,098; Dec. 4.
Lathes and like machines, Roller box or steady for. H. Livingstone. 2,390,312; Dec. 4.
Lens capping mechanism, Built-in. W. O. Runcle. 2,390,464; Dec. 4.
Lenses and the like, Manufacturing optical. V. Walker. 2,390,404; Dec. 4.
Lifting apparatus. O. E. Dempsey. 2,390,241; Dec. 4.
Light polarizing bodies, Producing. K. Meyer and H. Lapp. 2,390,162; Dec. 4.
Lighting tubes, Mounting for. E. E. Pooler. 2,390,385; Dec. 4.
Linings, Making jordan engine. A. Le R. Bolton. 2,390,351; Dec. 4.
Link, Cartridge belt. R. S. Sanford. 2,390,331; Dec. 4.
Liquid fuel burner. R. W. De Lancey. 2,390,059; Dec. 4.
Liquid lift. C. A. Neely. 2,390,265; Dec. 4.
Lock: *See*—
Cylinder lock.
Lock. M. Schnur. 2,390,467; Dec. 4.
Lock fastener. D. M. Richey. 2,390,173; Dec. 4.
Lock, latch, and the like. E. C. Deal. 2,390,076; Dec. 4.
Lubricator structure, Journal. J. J. Hennessy. 2,390,367; Dec. 4.
Machine for applying fasteners to paper booklets. O. F. Goepfert. 2,390,096; Dec. 4.
Machine for applying strips of material to curved surfaces. H. G. Steinmetz. 2,390,398; Dec. 4.
Machine for assembling shafts and armature cores. L. E. Poole. 2,390,170; Dec. 4.
Machine for manipulating belts of cartridges for automatic guns. C. T. Hall and R. W. Harris. 2,390,097; Dec. 4.
Machine for perforating, slitting, or scoring sheets. J. A. Davidson. 2,390,426; Dec. 4.
Machine for removing snow. E. B. Cadwell. 2,390,421; Dec. 4.
Machine gun feed mechanism. J. C. Trotter. 2,390,477; Dec. 4.
Magnesium products, Manufacture of. G. H. Gloss. 2,390,095; Dec. 4.
Magnetic hand tool. R. Ullman and F. Brauner. 2,390,339; Dec. 4.
Magneto, High-tension spark ignition. P. Tatlow and T. J. Hulbert. 2,390,338; Dec. 4.
Manufacture, Method of. J. T. Marvin. 2,390,160; Dec. 4.
Mastic composition. F. J. Soday. 2,390,189; Dec. 4.
Material gathering and loading machine. C. E. Andershock. 2,390,410; Dec. 4.
Mats, Method and apparatus for the launching of revetment. G. van der Rest. 2,390,403; Dec. 4.
Measuring magnetic fields. G. Barth. 2,390,051; Dec. 4.
Mechanism for hydraulic pumps, Control. W. Ernst. 2,390,360; Dec. 4.
Median device. E. F. Flint. 2,390,361; Dec. 4.
Mirror or reflector. W. H. Colbert. 2,390,424; Dec. 4.
Mixer: *See*—
Gas and liquid mixer.
Molded composition friction bodies, Manufacture of. E. E. Novotny. 2,390,266; Dec. 4.
Molds, Conditioning gel. V. V. Vallandigham. 2,390,138; Dec. 4.
Monoazo compounds. J. G. McNally and J. B. Dickey. 2,390,113; Dec. 4.
Motor for lawn sprinklers, etc., Water. E. W. Detjen. 2,390,355; Dec. 4.
Motor vehicle. E. P. Lamb and R. H. Duff. 2,390,218; Dec. 4.
Motors, Double swivel bracket for outboard. H. B. Tobias. 2,390,155; Dec. 4.
Mount, Display. C. N. Cross. 2,390,294; Dec. 4.
Mounting: *See*—
Platen mounting. Tool mounting.
Navigational method and apparatus. J. Neufeld. 2,390,383; Dec. 4.
Nonraveling edge, reinforcing rib of joint structure for knitted metallic mesh fabrics and producing same. O. H. York. 2,390,200; Dec. 4.
Nut, Union tube connection locking. W. J. Johnson. 2,390,103; Dec. 4.
Oil burner. J. C. Cleaver and J. V. Resek. 2,390,056; Dec. 4.
Oil, Increasing cetane number of fuel. G. R. Gilbert. 2,390,296; Dec. 4.
Oil tight joint. J. Mercier. 2,390,445; Dec. 4.
Oils, Extracting constituents of mineral. E. M. Dons and O. G. Mauro. 2,390,429; Dec. 4.
Oils, Synthetic drying. H. Burrell and P. I. Bowman. 2,390,202; Dec. 4.
Optical instrument. E. F. Flint. 2,390,362; Dec. 4.
Optical record interpreter. R. B. Johnson. 2,390,439; Dec. 4.
Ordnance. J. C. Trotter. 2,390,401; Dec. 4.
Orthopedic child's sandal. E. H. Bettmann. 2,390,416; Dec. 4.
Package. W. H. Bodle. 2,390,350; Dec. 4.
Packaging machine. F. W. Kuklinsky. 2,390,107; Dec. 4.
Packer, Well. E. W. McGaffey. 2,390,112; Dec. 4.
Paper dispenser. K. Tator and G. Holmgren. 2,390,399; Dec. 4.
Para-divinylbenzene, Production of. C. A. Hochwalt. 2,390,368; Dec. 4.
Perforating machine. E. A. Gubisch. 2,390,435; Dec. 4.
Petroleum emulsions, Breaking. M. De Groote. 2,390,081–3; Dec. 4.
Petroleum emulsions, Breaking. M. De Groote and B. Keiser. 2,390,078–80; Dec. 4.
Photographic camera-enlarger. J. Gelb. 2,390,065; Dec. 4.
Piercer. T. F. Keys. 2,390,309; Dec. 4.
Piezo-crystal device. H. M. Bach. 2,390,048; Dec. 4.
Pinch type bending roll. J. C. Rose and G. E. Stankey. 2,390,274; Dec. 4.
Piston. I. E. Aske. 2,390,343; Dec. 4.
Piston ring. T. A. Bowers. 2,390,044; Dec. 4.
Piston rings, Manufacturing. H. M. Bramberry. 2,390,417; Dec. 4.
Platon, Self-aligning. J. E. Beckwith. 2,390,289; Dec. 4.
Plate and bearing assembly. M. G. Bales. 2,390,050; Dec. 4.
Plate, Wall. E. W. Martin. 2,390,379; Dec. 4.
Platen mounting. E. Kluge. 2,390,156; Dec. 4.
Plow, Cultivator. R. M. Miller. 2,390,447; Dec. 4.
Plug: *See*—
Jacket removing plug.
Pole, Ski. W. E. Pearce. 2,390,267; Dec. 4.
Polymerization products, Conjoint. E. W. Moffett and R. E. Smith. 2,390,164; Dec. 4.
Powder stick, Talcum. R. W. Teichner. 2,390,473; Dec. 4.
Power transmitting mechanism. W. H. De Lancey. 2,390,240; Dec. 4.
Power transmission, Gyroscopic. D. T. Williams. 2,390,341; Dec. 4.
Preparation of α-β-dichloropropionitrile. J. K. Sumner. 2,390,470; Dec. 4.
Press: *See*—
Triple action automobile body press.
Printing and signaling system, Unit transmitter. M. W. Muehter. 2,390,222; Dec. 4.
Printing machine. W. A. Ayres. 2,390,413; Dec. 4.
Products from lignin by hydrogenation, Preparation of. K. Freudenberg and W. Lautsch. 2,390,065; Dec. 4.
Prospecting, Surface. R. G. Piety. 2,390,270; Dec. 4.
Protective device for ships. E. E. K. Edenboro. 2,390,358; Dec. 4.
Protector: *See*—
Head protector.
Protein product and process. E. J. Cohn. 2,390,074; Dec. 4.
Pull rod carrier. A. M. Rossman. 2,390,177; Dec. 4.
Pump: *See*—
Combination booster pump.
Pumping wells, System of. J. F. Ross. 2,390,124; Dec. 4.
Punching machine. J. T. Ivy. 2,390,311; Dec. 4.
Punching machine, Record. C. R. Doty. 2,390,486; Dec. 4.
Raceway clearing device. S. L. Gookin. 2,390,066; Dec. 4.
Rack: *See*—
Razor rack.
Radio receiving system. P. A. D'Orlo and J. W. Huff. 2,390,209; Dec. 4.
Raft, Inflatable life. J. A. Walsh. 2,390,199; Dec. 4.
Railway car structure. G. G. Gilpin. 2,390,434; Dec. 4.
Railway skate control and operating apparatus. G. T. Clark. 2,390,055; Dec. 4.





Range construction. S. H. Hobson and H. H. Ring. 2,390,438; Dec. 4.
Razor rack. C. E. Dunham. 2,390,060; Dec. 4.
Receptacle closure. S. Blackman. 2,390,291; Dec. 4.
Record assembly, Carbon interleaved. J. G. Kerr. 2,390,259; Dec. 4.
Recorder, Drilling rate. H. M. Rutherford. 2,390,178; Dec. 4.
Reel: *See*—
Wire pay-off reel.
Reel for wire-drawing machines. J. Kramer. 2,390,158; Dec. 4.
Refrigeration. N. Erland af Kleen. 2,390,085; Dec. 4.
Refrigerator equipped with motor-driven refrigerating apparatus of the compression type. H. Schirrmeister. 2,390,182; Dec. 4.
Regulating apparatus. M. A. Edwards. 2,390,084; Dec. 4.
Regulator: *See*—
Voltage regulator.
Resilient wheel cushion. J. D. Beebe. 2,390,290; Dec. 4.
Resin and making same, Modified formaldehyde-acetone. T. C. Whitner. 2,390,481; Dec. 4.
Resin composition, Hardenable. A. Voss, K. Deitz, and H. Thomas. 2,390,198; Dec. 4.
Resins, Method of making silicone. J. Marsden. 2,390,378; Dec. 4.
Rice, Fortification of. E. A. Fieger and V. R. Williams. 2,390,210; Dec. 4.
Ring: *See*—
Bead locking ring. Piston ring.
Roof, Automobile. K. Tandetzke. 2,390,193; Dec. 4.
Safety ball trap. F. C. Sams. 2,390,224; Dec. 4.
Scale, Printing. L. S. Williams. 2,390,482; Dec. 4.
Seal assembly. B. C. Bredenbeck. 2,390,201; Dec. 4.
Seismic surveying. J. O. Parr, Jr. 2,390,322; Dec. 4.
Seismic surveying. J. A. Sharpe. 2,390,187; Dec. 4.
Seismograph pickup, Directional. R. J. Roberts. 2,390,328; Dec. 4.
Sewing machine. J. Schifter. 2,390,126; Dec. 4.
Sewing machine drive. H. J. Le Vesconte and A. M. Schweda. 2,390,220; Dec. 4.
Sewing machines, Darning attachments for. W. O. Runcle and G. M. Keczeli. 2,390,329; Dec. 4.
Sewing machines, Needlebar mechanism for. L. M. Ballamy and R. H. Sheepshanks. 2,390,288; Dec. 4.
Sheathing unit. C. J. Fink. 2,390,087; Dec. 4.
Shock absorber. G. E. Dath. 2,390,205; Dec. 4.
Shock absorbing mechanism, Friction. G. E. Dath. 2,390,207; Dec. 4.
Shoe and making same. J. W. Barna. 2,390,042; Dec. 4.
Shoe and welt therefor. W. C. Wright. 2,390,485; Dec. 4.
Shoe stiffener and making the same. E. L. Beckwith and A. P. Swett. 2,390,347; Dec. 4.
Shutter, Light. E. C. Guedon. 2,390,216; Dec. 4.
Signal apparatus, Airport landing. A. G. Liebmann. 2,390,109; Dec. 4.
Ski, Hinged. H. Sarthou. 2,390,181; Dec. 4.
Sled, Coasting. M. A. Holbrook. 2,390,256; Dec. 4.
Sleeve packer, Open hole. M. O. Johnston, T. A. Andrew, A. M. Graham, and W. G. L. Smith. 2,390,372; Dec. 4.
Soap composition. L. H. Flett. 2,390,295; Dec. 4.
Sodium phosphate, Production of. G. E. Taylor. 2,390,400; Dec. 4.
Soil correctives. A. C. Mohr. 2,390,264; Dec. 4.
Solvent extraction, Method and apparatus for. T. M. Rector. 2,390,388; Dec. 4.
Sorbitan and making the same. S. Soltzberg. 2,390,395; Dec. 4.
Spinner frames, Pickers for. A. B. Shelton. 2,390,469; Dec. 4.
Spinning process, Dry. A. F. Smith and H. B. Stevenson. 2,390,132; Dec. 4.
Spreader for water heaters. R. Hackney. 2,390,248; Dec. 4.
Spring forming machine. H. W. Wilkins. 2,390,283; Dec. 4.
Spring group. D. M. Light. 2,390,110; Dec. 4.
Stamping die. R. A. L. Seligman. 2,390,183; Dec. 4.
Staple. D. R. La Place. 2,390,219; Dec. 4.
Steel, Making deep drawing. C. E. Bayer and C. E. Carr. 2,390,346; Dec. 4.
Steels, Passivating stainless. H. H. Uhlig. 2,390,402; Dec. 4.
Steering indicator device for vehicles. D. M. O'Dwyer. 2,390,317; Dec. 4.
Steering mechanism. C. C. Utz. 2,390,231; Dec. 4.
Stenographic machine. W. A. Ayres and R. E. Page. 2,390,414; Dec. 4.
Stiffener and making the same, Shoe. E. L. Beckwith and A. P. Swett. 2,390,347; Dec. 4.
Stoker apparatus, Spreader. W. Kessler. 2,390,154; Dec. 4.
Stoker mechanism, Spreader. R. T. French. 2,390,062; Dec. 4.
Stoker, Spreader. W. Kessler. 2,390,155; Dec. 4.
Stoves and furnaces, Internal construction for. P. Wingert. 2,390,483; Dec. 4.
Stripping machine. F. Hopper. 2,390,369; Dec. 4.
Substituted 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds. E. A. H. Friedheim. 2,390,089–2; Dec. 4.
Suction cleaning apparatus. J. P. Jason. 2,390,101; Dec. 4.
Suction cleaning apparatus. C. H. Taylor. 2,390,196; Dec. 4.
Sulphoaliphatic guanamines. J. T. Thurston. 2,390,476; Dec. 4.
Sulphonyl compounds and their production. C. O. Henke. 2,390,253; Dec. 4.
Sulphonyl cyanamides. G. W. Anderson and R. O. Roblin, Jr. 2,390,411; Dec. 4.
Switch: *See*—
Electric switch.
Swivel chair. G. M. Grill. 2,390,215; Dec. 4.
Syringe. M. L. Folkman. 2,390,246; Dec. 4.
Telemetering system, Pneumatic. E. H. Hart. 2,390,301; Dec. 4.
Telephoto objective. W. B. Rayton and L. M. Hudson. 2,390,387; Dec. 4.
Tenter drier. F. B. Morrill. 2,390,451; Dec. 4.
Textile fabrics, Iodization. C. R. H. Ritter. 2,390,391; Dec. 4.
Textile treatment. K. H. Barnard and B. Frankfurt. 2,390,235; Dec. 4.
Therapy apparatus, Portable field oxygen. W. M. Boothby and W. R. Lovelace, II. 2,390,236; Dec. 4.
Thread accumulator for weft replenishing looms. W. H. Wakefield. 2,390,478; Dec. 4.
Timing apparatus. T. B. Gibbs and M. E. Brown. 2,390,364; Dec. 4.
Tool: *See*—
Diamond holding tool. Turnbuckle tool.
Magnetic hand tool.
Tool mounting. E. Hiljmans. 2,390,148; Dec. 4.
Toy, Ball-operated. O. F. Larsen, Jr. 2,390,442; Dec. 4.
Toy firearms. E. O. Blanchette. 2,390,349; Dec. 4.
Toy gun. W. B. Ford. 2,390,247; Dec. 4.
Transmission gearing. S. W. Thompson. 2,390,228; Dec. 4.
Trap: *See*—
Safety ball trap.
Triple action automobile body press. W. Ernst. 2,390,359; Dec. 4.
Truck, Railway car. G. E. Dath. 2,390,206; Dec. 4.
Trunnion tilt corrector apparatus. W. B. Jordan and F. V. Johnson. 2,390,374; Dec. 4.
Tube machine. J. P. Ratay. 2,390,171; Dec. 4.
Turbine construction. R. R. Snyder. 2,390,133; Dec. 4.
Turnbuckle tool. S. H. Knowles. 2,390,310; Dec. 4.
Undergarment. F. Russo. 2,390,465; Dec. 4.
Universal vise. J. A. Disse. 2,390,428; Dec. 4.
Valve. H. O. Johnson and M. O'Hare. 2,390,150; Dec. 4.
Valve structure, Ball cock. B. Svirsky. 2,390,134; Dec. 4.
Valveless engine. V. Pogioli. 2,390,169; Dec. 4.
Vehicle: *See*—
Automotive vehicle. Motor vehicle.
Velocipede, Convertible. J. Woginrich. 2,390,484; Dec. 4.
Vessel, Pressure. J. W. Overbeke. 2,390,319–20; Dec. 4.
Voltage regulator. W. C. Grabau. 2,390,214; Dec. 4.
Vulcanizates of furylethylene polymers. C. J. Mighton. 2,390,446; Dec. 4.
Wall structure. J. S. Swann. 2,390,472; Dec. 4.
Washers with screw-threaded fasteners, Method and machine for assembling. O. J. Poupitch. 2,390,121; Dec. 4.
Welding device, Arc. O. B. Hopper. 2,390,149; Dec. 4.
Well casing cap. W. Rubly. 2,390,393; Dec. 4.
Well survey method and apparatus. R. E. Fearon. 2,390,433; Dec. 4.
Whipping machine, Portable. R. J. Sharp. 2,390,186; Dec. 4.
Wiener vending machine and process. C. R. Simpkins. 2,390,277; Dec. 4.
Wind indicator. R. Poole. 2,390,384; Dec. 4.
Winding and spooling device, Multiple. H. P. Ruf. 2,390,223; Dec. 4.
Window. G. D. Smith. 2,390,394; Dec. 4.
Window operator. A. Rappl and E. C. Horton. 2,390,271; Dec. 4.
Wire mesh, Continuous manufacture of welded. G. R. Roemer. 2,390,174; Dec. 4.
Wire pay-off reel. J. Kramer. 2,390,157; Dec. 4.
Wire threading machine, Lead. A. J. Vasselli. 2,390,139; Dec. 4.
Work handling unit. H. H. Colson. 2,390,293; Dec. 4.
Wrapping yarn around wire, Flier for. C. J. Murphy. 2,390,454; Dec. 4.
Yarn, Manufacture of glass. J. F. Hyde. 2,390,370; Dec. 4.

# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 4, 1945

**In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.**

NOTE.—First number—class, second number—subclass, third number—patent number

1— 2: 2,390,096
2— 8: 2,390,352
42: 2,390,142
70: 2,390,462
106: 2,390,456
125: 2,390,188
195: 2,390,064
270: 2,390,077
9— 2: 2,390,199
10— 155: 2,390,121
18— 19: 2,390,337
39: 2,390,129
47: 2,390,137
47.5: 2,390,132
2,390,162
55: 2,390,266
55.1: 2,390,138
58: 2,390,070
59: 2,390,351
20— 0.5: 2,390,180
1.1: 2,390,179
4: 2,390,262
5: 2,390,067
19: 2,390,086
53: 2,390,394
22— 5: 2,390,054
71: 2,390,263
147: 2,390,373
23— 63: 2,390,406
67: 2,390,095
107: 2,390,400
143: 2,390,272
172: 2,390,318
270: 2,390,388
283: 2,390,432
24— 19: 2,390,232
25— 156: 2,390,354
26— 60: 2,390,451
28— 72: 2,390,200
73: 2,390,396
75: 2,390,370
29—25.13: 2,390,139
149.5: 2,390,169
189: 2,390,452
205: 2,390,170
33— 70: 2,390,361
76: 2,390,466
36— 8.5: 2,390,416
11: 2,390,287
17: 2,390,485
45: 2,390,042
77: 2,390,347
37— 43: 2,390,421
126: 2,390,040
40— 10.5: 2,390,357
18: 2,390,294
41— 42: 2,390,404
2,390,405
42— 3: 2,390,061
46— 42: 2,390,442
192: 2,390,349
47— 58: 2,390,264
48—118.5: 2,390,058
49— 55: 2,390,178
50— 101: 2,390,245
202: 2,390,321
370: 2,390,375
57— 18: 2,390,454
58: 2,390,469
60— 35.6: 2,390,161
44: 2,390,160
52: 2,390,124
54: 2,390,133
97: 2,390,084
61— 38: 2,390,403
62— 4: 2,390,182
126: 2,390,085
66— 1.5: 2,390,229
69— 23: 2,390,213
70— 365: 2,390,471
73— 38: 2,390,252
141: 2,390,304
189: 2,390,384
379: 2,390,336
388: 2,390,301
74— 5: 2,390,341
52: 2,390,228
2,390,229
189.5: 2,390,240
407: 2,390,117
522.5: 2,390,177
531: 2,390,069
586: 2,390,324
75— 0.5: 2,390,105
46: 2,390,346
76— 107: 2,390,183
77— 21: 2,390,420
79— 46: 2,390,318
81— 9.51: 2,390,359
13: 2,390,310
41: 2,390,428
82— 35: 2,390,312
36: 2,390,148
84— 382: 2,390,275
456: 2,390,237
85— 32: 2,390,326
49: 2,390,219
86— 23: 2,390,382
48: 2,390,007
88— 14: 2,390,122
2,390,439
18: 2,390,389
24: 2,390,065
2,390,362
26: 2,390,053
57: 2,390,387
105: 2,390,424
89— 33: 2,390,401
2,390,477
35: 2,390,331
90—11.48: 2,390,254
91— 45: 2,390,457
53: 2,390,118
93— 3: 2,390,071
6: 2,390,107
52: 2,390,120
94— 30: 2,390,194
95— 53: 2,390,464
62: 2,390,216
97— 206: 2,390,447
98— 110: 2,390,227
99— 11: 2,390,210
186: 2,390,468
101— 217: Re.22,702
407: 2,390,156
103— 11: 2,390,204
38: 2,390,360
73: 2,390,265
245: 2,390,241
104— 260: 2,390,065
105— 197: 2,390,206
404: 2,390,434
106— 15: 2,390,408
26: 2,390,380
30: 2,390,102
2,390,123
47: 2,390,191
49: 2,390,366
100: 2,390,225
131: 2,390,212
193: 2,390,217
107— 7: 2,390,195
108— 1: 2,390,379
2,390,418
5.4: 2,390,472
7: 2,390,348
110— 115: 2,390,062
2,390,154
2,390,155
112— 198: 2,390,126
221: 2,390,288
113— 45: 2,390,359
114— 45: 2,390,300
79: 2,390,330
240: 2,390,358
116— 124: 2,390,317
117— 52: 2,390,440
62: 2,390,235
145: 2,390,046
120— 36: 2,390,226
121— 40: 2,390,425
41: 2,390,119
122— 18: 2,390,248
123— 117: 2,390,146
2,390,166
175: 2,390,279
124— 3: 2,390,247
125— 30: 2,390,175
126— 42: 2,390,234
73: 2,390,483
116: 2,390,380
298: 2,390,453
127— 45: 2,390,131
128— 144: 2,390,233
156: 2,390,194
191: 2,390,236
215: 2,390,246
132— 75.6: 2,390,381
137— 69: 2,390,108
104: 2,390,134
138— 30: 2,390,319
2,390,320
89: 2,390,461
139— 247: 2,390,478
140— 105: 2,390,283
144— 208: 2,390,459
309: 2,390,159
148— 6: 2,390,402
12: 2,390,417
21.1: 2,390,238
150— 11: 2,390,423
29: 2,390,315
151— 6: 2,390,173
152— 400: 2,390,303
153— 56: 2,390,274
154— 1: 2,390,171
2: 2,390,045
27: 2,390,208
2,390,340
41: 2,390,398
44: 2,390,190
155— 95: 2,390,215
158— 1.5: 2,390,056
29: 2,390,059
117.1: 2,390,172
159— 3: 2,390,167
160— 133: 2,390,116
164— 23: 2,390,376
99: 2,390,425
113: 2,390,435
2,390,495
119: 2,390,309
2,390,371
125: 2,390,072
166— 10: 2,390,372
12: 2,390,112
167— 30: Re.22,700
167— 30: 2,390,249
82: 2,390,088
84: 2,390,391
87.1: 2,390,073
170— 173: 2,390,299
171— 119: 2,390,214
123: 2,390,345
209: 2,390,338
252: 2,390,130
327: 2,390,048
172— 239: 2,390,463
174— 155: 2,390,305
175— 182: 2,390,270
2,390,409
183: 2,390,051
335: 2,390,377
363: 2,390,128
177— 314: 2,390,221
327: 2,390,415
352: 2,390,109
2,390,322
2,390,326
360: 2,390,222
390: 2,390,449
178— 44: 2,390,474
179— 107: 2,390,243
180— 54: 2,390,218
79.3: 2,390,273
181— 0.5: 2,390,187
183— 4.3: 2,390,104
37: 2,390,196
45: 2,390,297
188— 83: 2,390,356
152: 2,390,311
192— 18: 2,390,220
194— 101: 2,390,147
196— 13: 2,390,429
29: 2,390,296
46: 2,390,430
52: 2,390,244
197— 9: 2,390,414
20: 2,390,413
198— 7: 2,390,296
8: 2,390,410
13: 2,390,419
134: 2,390,075
135: 2,390,302
138: 2,390,455
168: 2,390,276
169: 2,390,261
200— 16: 2,390,344
70: 2,390,365
82: 2,390,333
140: 2,390,145
202— 36: 2,390,197
110: 2,390,067
204— 68: 2,390,114
140: 2,390,282
158: 2,390,470
206— 41.2: 2,390,330
56: 2,390,448
2,390,473
58: 2,390,407
210— 3: Re.22,701
52.5: 2,390,115
162: 2,390,269
214— 41: 2,390,306
77: 2,390,268
215— 82: 2,390,291
218— 15.1: 2,390,086
219— 4: 2,390,174
8: 2,390,149
19: 2,390,277
39: 2,390,475
220— 10: 2,390,438
26: 2,390,141
220— 81: 2,390,094
222— 36: 2,390,146
103: 2,390,314
226— 68: 2,390,443
229— 17: 2,390,392
51: 2,390,412
230— 11: 2,390,487
114: 2,390,068
115: 2,390,043
132: 2,390,101
2,390,332
232— 4: 2,390,057
234— 5.4: 2,390,482
36.5: 2,390,178
2,390,364
235— 3: 2,390,396
59: 2,390,163
61.5: 2,390,374
61.6: 2,390,427
61.8: 2,390,441
136: 2,390,444
144: 2,390,239
145: 2,390,041
242— 17: 2,390,223
55.2: 2,390,399
128: 2,390,157
2,390,158
244— 102: 2,390,334
110: 2,390,127
118: 2,390,255
134: 2,390,093
141: 2,390,230
248— 4: 2,390,135
22: 2,390,479
43: 2,390,292
50: 2,390,385
63: 2,390,192
294: 2,390,257
300: 2,390,060
250— 11: 2,390,383
20: 2,390,209
27.5: 2,390,308
67: 2,390,397
68: 2,390,211
83.6: 2,390,433
251— 113: 2,390,201
252— 36: 2,390,450
42.7: 2,390,342
78: 2,390,258
121: 2,390,295
242: 2,390,323
341: 2,390,078
2,390,079
2,390,090
2,390,081
2,390,082
2,390,083
253— 17: 2,390,355
255— 1: 2,390,047
257— 241: 2,390,436
259— 46: 2,390,186
97: 2,390,460
260— 2: 2,390,378
9: 2,390,481
34: 2,390,198
36: 2,390,446
41: 2,390,159
72: 2,390,153
86: 2,390,164
122: 2,390,074
124: 2,390,063
146: 2,390,480
153: 2,390,152
198: 2,390,113
225: 2,390,185
260— 236: 2,390,281
239: 2,390,165
242: 2,390,089
2,390,090
2,390,091
2,390,092
249.5: 2,390,476
345: 2,390,395
397.7: 2,390,411
410.6: 2,390,202
464: 2,390,098
473: 2,390,278
484: 2,390,140
486: 2,390,326
2,390,327
2,390,335
546: 2,390,106
552: 2,390,253
609: 2,390,099
668: 2,390,363
669: 2,390,368
680: 2,390,285
683.15: 2,390,100
734: 2,390,422
261— 49: 2,390,143
93: 2,390,111
116: 2,390,280
262— 33: 2,390,251
264— 3: 2,390,144
266— 34: 2,390,052
267— 9: 2,390,110
2,390,205
2,390,207
272— 31: 2,390,307
273— 47: 2,390,224
110: 2,390,458
277— 1: 2,390,150
280— 8: 2,390,484
11.13: 2,390,181
11.37: 2,390,267
12: 2,390,256
95: 2,390,231
281— 29: 2,390,125
282— 11.5: 2,390,259
285— 21: 2,390,393
122: 2,390,103
163: 2,390,445
287— 53: 2,390,168
292— 167: 2,390,076
340: 2,390,467
294— 64: 2,390,298
65: 2,390,242
65.5: 2,390,339
86: 2,390,293
295— 11: 2,390,290
296— 44: 2,390,260
2,390,271
137: 2,390,193
299— 86: 2,390,312
300— 21: 2,390,437
303— 22: 2,390,049
304— 14: 2,390,284
308— 84: 2,390,367
134.1: 2,390,060
189: 2,390,253
309— 9: 2,390,343
12: 2,390,431
20: 2,390,289
45: 2,390,044
315— 21: 2,390,250
210: 2,390,203
320— 10: 2,390,151

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2,390,046: | 117—145 | 2,390,119: | 121— 41 | 2,390,186: | 259— 46 | 2,390,230: | 244—141 | 2,390,305: | 174—155 |
| 2,390,056: | 158—1.5 | 2,390,121: | 10—155 | 2,390,190: | 154— 44 | 2,390,250: | 315— 21 | 2,390,342: | 252—42.7 |
| 2,390,059: | 158— 28 | 2,390,139: | 29—25.13 | 2,390,203: | 315—210 | 2,390,254: | 90—11.48 | 2,390,354: | 25—156 |
| 2,390,117: | 74—407 | 2,390,182: | 62— 4 | 2,390,207: | 267— 9 | 2,390,263: | 22— 71 | 2,390,381: | 132—75.6 |
| | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2,390,456: | 2—106 | | | | | | | | |
| 2,390,479: | 248— 22 | | | | | | | | |

## CLASSIFICATION OF DESIGNS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D 1—12: | Des. 143,072 | D 3—26: | Des. 143,070 | D34—15: | Des. 143,099 | D55— 1: | Des. 143,089 | D67— 3: | Des. 143,060 |
| D 3—17: | Des. 143,062 | | Des. 143,071 | D40— 1: | Des. 143,098 | D57— 1: | Des. 143,077 | D71— 1: | Des. 143,080 |
| | 26: Des. 143,062 | D 4— 2: | Des. 143,104 | D44— 1: | Des. 143,081 | D58— 4: | Des. 143,092 | D80— 8: | Des. 143,103 |
| | Des. 143,063 | D14— 3: | Des. 143,063 | | Des. 143,086 | | Des. 143,096 | 9: | Des. 143,066 |
| | Des. 143,064 | D26— 1: | Des. 143,090 | | 29: Des. 143,105 | D61— 1: | Des. 143,087 | D83— 1: | Des. 143,084 |
| | Des. 143,065 | | 5: Des. 143,068 | D48—23: | Des. 143,061 | D63— 1: | Des. 143,074 | | Des. 143,085 |
| | Des. 143,068 | D34—15: | Des. 143,059 | D54—13: | Des. 143,075 | D65— 1: | Des. 143,078 | | Des. 143,097 |
| | Des. 143,069 | | Des. 143,076 | | 14: Des. 143,094 | | Des. 143,079 | | Des. 143,102 |

| | | | |
|---|---|---|---|
| D85— 2: | Des. 143,091 | | |
| | 8: Des. 143,057 | | |
| D86—10: | Des. 143,058 | | |
| D87— 3: | Des. 143,073 | | |
| | Des. 143,093 | | |
| | Des. 143,101 | | |
| D91— 3: | Des. 143,100 | | |
| D93— 4: | Des. 143,096 | | |

U. S. GOVERNMENT PRINTING OFFICE: 1948

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

THE B. R. BAKER COMPANY

*v.*

LEBOW BROTHERS

*No. 5,030. Decided June 25, 1945*

[150 F.(2d) 580; 66 USPQ 232]

1. TRADE-MARKS—PRIORITY OF OWNERSHIP AND USE—BURDEN OF PROOF.

"One who seeks to prove priority of ownership and use of a trade-mark over the application date of a registered mark must do so by a preponderance of the evidence. *Etablissements Rene Beziers, Societe Anonyme* v. *Reid, Murdoch & Co.*, 18 C. C. P. A. (Patents) 1340, 48 F.(2d) 946, 9 USPQ 231, 412 O. G. 10. Of course, as against a registered mark, doubts are resolved against the junior party. *Brewster-Ideal Chocolate Co.* v. *Dairy Maid Confectionery Co.*, 20 C. C. P. A. (Patents) 848, 62 F.(2d) 844, 16 USPQ 310, 430 O. G. 1275. Where, however, one has under oath stated his earliest use and then amends his oath and by proof attempts to show an earlier date, he is then under a heavy burden, and his proof must be 'clear and convincing'."

2. SAME—SAME—SUFFICIENCY OF PROOFS.

"It is not contended by either party here that oral proof alone, even by one witness, if sufficiently probative, will not suffice in proving priority of ownership and use in a trade-mark interference proceeding. While the oral testimony of a single interested witness must necessarily have its weaknesses, we know of nothing in trade-mark law which justifies the rejection of such proof if it is sufficiently probative. However, such testimony is obviously strengthened by corroborative documentary evidence, and it should not be characterized by contradictions, inconsistencies, and indefiniteness but should carry with it conviction of its accuracy and applicability. *William S. Merrell Co.* v. *The Anacin Co.*, 27 C. C. P. A. (Patents) 847, 109 F.(2d) 339, 44 USPQ 366, 516 O. G. 3."

3. SAME—SAME—SAME—CORROBORATION.

*Held* that in patent interferences corroboration is indispensable, while in trade-mark interferences "it is not an absolute requisite."

4. SAME—SAME—SAME.

"When, in cases like the one at bar, the oral testimony of a single witness, testifying long after the events happened, is relied upon to prove priority, such testimony, while entitled to consideration, should be most carefully scrutinized; and if it does not carry conviction of its accuracy and applicability, it should not be permitted to thus successfully attack the presumed validity of a registered trade-mark.

5. SAME—SAME—SAME.

"Whether or not the testimony of the single witness Baker, indefinite and uncertain as it is, together with the apparent lack of probative force to be given to the exhibits, is sufficient proof of priority in this case does not even present a close question. Here there was no cross-examination. Here the questions were leading. Here the witness was doubtful. Here he depended upon his memory, and the things relied upon to refresh the memory had little pertinency. Other circumstances herein pointed out, we think, suggest that the offered proof does not meet the heavy burden placed upon Baker."

APPEAL from the Patent Office. Affirmed.

*Mr. James Atkins* for The B. R. Baker Company.

*Messrs. Mason, Porter* and *Diller* (*Mr. Herbert H. Porter* and *Mr. Charles R. Allen* of counsel) for Lebow Brothers.

BLAND, *J.*:

This is an appeal in a Patent Office trade-mark interference proceeding between appellant (hereinafter referred to as Baker) and appellee (hereinafter referred to as Lebow). The appeal is from the decision of the Commissioner of Patents, speaking through the First Assistant Commissioner, 60 USPQ 254, reversing the decision of the Examiner of Trade-Mark Interferences, who had held Baker to be the first user and owner of the involved trade-mark and that Baker was entitled to register the same.

Baker's mark is a composite one, consisting of the words "Custom Imperial" at the top and the words "The B. R. Baker Co." at the bottom. Between the two lines of printing, there appears what Baker states is "a crest, a sort of a coat of arms, with a design of needle and thread, a spool of thread and a shears, a bolt of cloth and a spinning wheel." Lebow has two registrations involved in the interference, the first consisting of the words "Imperial Drape" ("Drape" disclaimed), registration No. 297,734, September 27, 1932, application for which was filed February 29, 1932, and the second consisting of the words "Custom Imperial" and other indicia not regarded as important here, registration No. 381,259, September 17, 1940, application filed April 1, 1940.

No question is raised as to the similarity of the marks or the identity of the goods of the parties. The only issue tried below and presented here is whether or not the proof appearing in the record introduced by Baker (Lebow took no proof and relied upon its filing date, February 29, 1932, of the "Imperial Drape" mark) is sufficient to prove priority of adoption and use of its said mark.

Baker's proof consists of the testimony, in the form of a deposition, of a single witness, Frank P. Baker, vice-president and general superintendent of the appellant company, and six exhibits which will be particularly described hereinafter.

We quote extensively from the nine pages of testimony the following, which we think is pertinent to the decision of the issue:

Q. 9. And have you been general superintendent continuously ever since January 5, 1930?

A. 9. Yes, sir.

Q. 10. When did The B. R. Baker Company first use the trade name "Custom Imperial"?

A. 10. As near as I can remember, it was 1928–1929 that we started to use it and, of course, the proof that we have here is 1930.

Q. 11. Will you please state fully how the use of the trade-mark or trade name "Custom Imperial" first came about, that is, the use by The B. R. Baker Company?

A. 11. Well, at that time there was a great deal of cut, make and trim garments used by the firm. As cut, make and trim, we bought the material and had the clothes made; one shop made the trousers and another shop made the coats, and we had to have some kind of a brand or make for that clothing. We adopted for a short time "Metropolitan Manor" which was given up and we used this label "Custom Imperial" from that time on. We have changed the design of it from time to time but have stuck to rather a similarity of this one that we are using at the present time.

Q. 12. Please state what connection you had with the first use of the trade-mark "Custom Imperial" by The B. R. Baker Company.

A. 12. Well, the reason we gave up "Metropolitan Manor" was we didn't think that had any meaning, and another store in Dayton, Ohio, called the "Metropolitan Store" was using that label, and of course it was intended for their store and we were just copying their label, and we thought that the "Custom Imperial" label would be a better name and had more of a significance with the clothing. The name applied more, and we had a discussion on that and were told to go ahead and get some samples of labels made, which we did.

* * * * * * *

Q. 23. You stated The B. R. Baker Company first used the trade-mark "Custom Imperial" in 1928 or 1929 but that the records do not show that early a use. The adoption of this trade-mark which you have just told about occurred at about what time?

A. 23. What time of the year?

Q. 24. No; during what year and approximately what time of the year?

A. 24. Well, I really couldn't answer that.

Q. 25. Well, can you say approximately what year or time of year that you officially adopted this trade-mark "Custom Imperial"?

A. 25. No, I couldn't say just when.

Q. 26. You have just testified, Mr. Baker, that you started using this trade-mark in 1928 or 1929. Describe the use of the trade-mark "Custom Imperial" in 1928 and '29 by the B. R. Baker Company.

A. 26. As I can remember, it seems to me it was in the Fall of one of those years because that was when Mr. O'Neil returned to the firm. He was absent for awhile.

Q. 27. I hand you a paper marked "Exhibit No. 2." Will you please tell what that paper is and from what file or record you procured that?

A. 27. Well, this is an advertisement in the Toledo Times on January 5th.

Q. 28. Of what year?

A. 28. 1930. It was a tear sheet taken from our tear sheet book.

Q. 29. Was that a book regularly kept by The B. R. Baker Company as part of its records?

A. 29. Yes.

Q. 30. Does that advertisement of January 5, 1930, in the Toledo Times marked Exhibit No. 2 contain any advertisement of the trade-mark "Custom Imperial"?

A. 30. Yes, it does, several times.

Q. 31. Was the B. R. Baker Company on January 5, 1930, using the trade-mark "Custom Imperial" on its clothing?

A. 31. Yes.

Q. 32. On what clothing was it using the trade-mark "Custom Imperial"?

A. 32. On what makes?

Q. 33. On what garments?

A. 33. On men's suits and top coats and also overcoats.

Q. 34. And overcoats?

A. 34. Yes, sir.

Q. 35. Has the B. R. Baker Company used this trade-mark since January 5, 1930?

A. 35. We have been using it ever since.

Q. 36. The use has been continuous ever since January 5, 1930?

A. 36. Yes, sir.

Baker's application was filed August 23, 1940. In the application it was stated under oath that the "trade-mark has been continuously used and applied to said goods in applicant's business since November 26, 1936. On September 14, 1940, Baker amended its application, claiming first use on January 5, 1930.

The Examiner's first action in rejecting Baker's application for registration of the mark was in view of five registered marks, the filing date of the earliest of which was February 29, 1932—that of Lebow. The Examiner stated that the mark was passed to publication but was subject to interference. After Baker amended its application, it requested the interference, and the request was granted by declaring the present interference between Baker and Lebow.

It will be observed from the above-quoted testimony that the witness was testifying to events which occurred as far back as fourteen years, and that Baker, at one time before using the "Custom Imperial" mark, used a mark "Metropolitan Manor" upon the same kind of goods. It will also be observed that when first queried about the early use of the involved mark, the witness could not say approximately what year or time of year the mark was adopted. His answer to the question was, "No, I couldn't say just when." His counsel (Lebow was not represented and there was no cross-examination) then proceeded to ask him a number of leading questions. To counsel's leading question, "You stated The B. R. Baker Company first used the trade-mark 'Custom Imperial' in 1928 or 1929 but that the records do not show that early a use," the witness finally replied that he could not answer; and he was then asked whether he could state approximately what year, and he replied, "No, I couldn't say just when." Then counsel asked him this question, "You have just testified, Mr. Baker, that you started using this trade mark in 1928 or 1929. Describe the use of the trade mark 'Custom Imperial' in 1928 and '29 by the B. R. Baker Company," and the witness replied, "As I can remember, it seems to me it was in the Fall of one of those years because that was when Mr. O'Neil returned to the firm. He was absent for a while." There is nothing in the record to disclose when Mr. O'Neil returned to the firm, nor is it disclosed why O'Neil's return would refresh the memory of the witness that the mark was first used in a trade-mark sense in 1928 or 1929. The witness' later positive statements that the mark was used on clothing in 1930 and continuously thereafter must be considered in the light of all his testimony, which, for the most part, was responsive to questions unusually leading in character. Moreover, it was not definitely stated that the marks so used were their own or those of others.

Baker then introduced certain exhibits. Exhibit No. 1 is a piece of silk-satin cloth containing Baker's mark, which was to be attached to the inside pocket or some other place on a garment. There is no showing that this particular piece of cloth or one like it was used in a trade-mark sense on any of Baker's goods prior to the critical date of February 29, 1932.

Exhibit No. 2 is an advertisement in the Toledo Times, upon which so-called tear sheet appears, in green ink, a rubber-stamped date, "TIMES JAN 5 '30". This exhibit consists of what appears to be a half- or full-page advertisement of a clearance sale on the part of Baker, in which the following appears:

> This greatest of all clearances offers the finest of selections . . . Fashion Park and Custom Imperial Tailored suits and overcoats at clearance prices . . . If you want the superlative in style, quality and tailoring—and the superlative in fine values—here it is!

It is not contended by Baker that this exhibit, which is an advertisement of "Custom Imperial" clothing, proves by itself a trade-mark use of the term, but it is relied upon as a circumstance corroborative of the witness Baker's oral testimony.

The Examiner did not rely upon the rubber-stamped date in determining that the date had been sufficiently proved to warrant a consideration of the exhibit, but he found on the back of the exhibit a news item dated "LONDON, Jan. 4" concerning



a Naval Conference of the five Great Powers, of the date of which—1930—the Examiner took judicial notice.

It will first be observed that Baker was advertising a clearance sale of "Fashion Park" and "Custom Imperial" tailored suits and overcoats. Baker does not claim to be the owner of the well-known "Fashion Park" mark, and there is nothing in the record to indicate that it was not selling "Fashion Park" and "Custom Imperial" tailored clothing under the trade-marks of others. So, regardless of the date of issue of the newspaper in which the advertisement appears, we think the probative value of this exhibit, even for the purpose of corroboration or refreshing the memory, is negligible. Such exhibits should be explained. The use of the two trade-mark terms in the advertisement could have been explained, and in the absence of such explanation it is, in the present circumstances, entitled to but little consideration.

Exhibits 3, 4, 5, and 6 all relate to orders or acknowledgments of orders of labels or inventories of the same, containing the term "Custom Imperial," all of which transactions occurred in 1936 or 1937—which of course proves nothing relative to a trade-mark use of the term prior to the critical date of February 29, 1932. Moreover, this activity in 1936 and 1937 would seem to support the earlier sworn statement that Baker had used the mark since 1936.

Baker, without going into details, attempts to excuse the lack of earlier documents or records indicating use of the mark, by reason of the fact that they were destroyed when the company moved in 1931. Why or how they were destroyed is not disclosed. It is interesting to note, however, that the witness testified that Exhibit No. 2, which was dated January 5, 1930, was "a tear sheet taken from our tear sheet book" and stated that the book was regularly kept by Baker as a part of its records.

[1] It has become well-settled law that one who seeks to prove priority of ownership and use of a trade-mark over the application date of a registered mark must do so by a preponderance of the evidence. *Etablissements Rene Beziers, Societe Anonyme* v. *Reid, Murdoch & Co.*, 18 C. C. P. A. (Patents) 1340, 48 F.(2d) 946, 9 USPQ 231, 412 O. G. 10. Of course, as against a registered mark, doubts are resolved against the junior party. *Brewster-Ideal Chocolate Co.* v. *Dairy Maid Confectionery Co.*, 20 C. C. P. A. (Patents) 848, 62 F.(2d) 844, 16 USPQ 310, 430 O. G. 1275. Where, however, one has under oath stated his earliest use and then amends his oath and by proof attempts to show an earlier date, he is then under a heavy burden, and his proof must be "clear and convincing." *National Dairy Products Corp. et al.* v. *Allied Mills, Inc.*, 30 USPQ 274, 27 T. M. Rep. 494; see *Joannes Brothers Co.* v. *Jas. H. Forbes Tea and Coffee Co.*, 15 T. M. Rep. 177. The latter case was cited with approval by this court in the *Brewster-Ideal Chocolate Co.* case, supra. See also *Mayer F. & J. Co.* v. *Virginia-Carolina C. Co.*, 35 App. D. C. 425, 156 O. G. 539.

[2][3][4] It is not contended by either party here that oral proof alone, even by one witness, if sufficiently probative, will not suffice in proving priority of ownership and use in a trade-mark interference proceeding. While the oral testimony of a single interested witness must necessarily have its weaknesses, we know of nothing in trade-mark law which justifies the rejection of such proof if it is sufficiently probative. However, such testimony is obviously strengthened by corroborative documentary evidence, and it should not be characterized by contradictions, inconsistencies, and indefiniteness but should carry with it conviction of its accuracy and applicability. *William S. Merrell Co.* v. *The Anacin Co.*, 27 C. C. P. A. (Patents) 847, 109 F.(2d) 339, 44 USPQ 366, 516 O. G. 3. In one respect the general principle just announced is at variance with that which obtains in proving priority of invention in patent interferences. In the latter case corroboration is indispensable, while in the former it is not an absolute requisite. When, in cases like the one at bar, the oral testimony of a single witness, testifying long after the events happened, is relied upon to prove priority, such testimony, while entitled to consideration, should be most carefully scrutinized; and if it does not carry conviction of its accuracy and applicability, it should not be permitted to thus successfully attack the presumed validity of a registered trade-mark. See *Collins* v. *Hupp Motor Car Co.*, 4 F.(2d) 272; also *T. H. Symington Co.* v. *National Malleable Castings Co.*, 250 U. S. 383, 264 O. G. 867.

[5] Whether or not the testimony of the single witness Baker, indefinite and uncertain as it is, together with the apparent lack of probative force to be given to the exhibits, is sufficient proof of priority in this case does not even present a close question. Here there was no cross-examination. Here the questions were leading. Here the witness was doubtful. Here he depended upon his memory, and the things relied upon to refresh the memory had little pertinency. Other circumstances herein pointed out, we think, suggest that the offered proof does not meet the heavy burden placed upon Baker.

The Commissioner, in his decision, after setting out most of the testimony herein quoted, we think, aptly ruled with respect thereto when he said:

> I think the only fair inference to be drawn from this testimony is that Mr. Baker had no independent recollection as to the time when appellee first used the trade-mark upon its merchandise, but was merely assuming that it must have been in use when the advertisement, Exhibit 2, was published. He did not even say that the exhibit refreshed his recollection. Moreover, it bears no date of publication other than the unexplained notation "Times Jan 5 '30," apparently impressed by means of a rubber stamp. When, by whom, or for what reason this was done, are questions to which the record affords no answer. The Examiner of Interferences found a news story on the reverse side of the exhibit bearing the date line "London, Jan. 4," and by taking judicial notice that the story related to a coming event of world importance that was then under discussion and that materialized shortly thereafter, he concluded that the date of publication was January 5, 1930. The witness, however, indulged in no such reasoning, nor was his attention called to any printed matter on the exhibit other than the advertisement. As the quoted testimony finds no other pretense of corroboration in the record, I am unable to accept it as proof that appellee had used the mark, as a trade-mark, at any time prior to February 29, 1932, which is the date of first use properly awarded by the Examiner to appellant.

The remaining question is whether the advertisement of itself proves use of the mark as of the date of publication, and in resolving that question I shall assume that the Examiner's method of fixing the date was permissible. The mark occurs twice in the advertisement as follows:

"Superlatively fine Fashion Park & 'Custom Imperial' suits & overcoats are included in this great Baker Clearance.

* * * * * * *

"This greatest of all clearances offers the finest selections . . . Fashion Park and Custom Imperial tailored suits and overcoats at clearance prices."

Appellee's name and the location of its place of business are printed at the bottom.

It thus appears that appellee was dealing in "Custom Imperial" suits and overcoats, just as it was dealing in "Fashion Park" suits and overcoats; but it does not necessarily follow that either brand was its own. And even if it did so follow, use in advertising is not trade-mark use; and it was trade-mark use that appellee was required to prove in order to prevail in this proceeding. Use of a mark in advertising may enable the user to prevent registration to another of the same mark or a mark confusingly similar thereto, but here appellant's mark is already registered. To affirm the decision of the Examiner of Interferences would be tantamount to a ruling that appellant's registration is invalid and should be canceled. Hence, trade-mark use by appellee prior to trade-mark use by appellant, of the mark in controversy, is a prerequisite to the registration sought by appellee. *Sears, Roebuck & Co.* v. *Old Colony Shoe Co.*, 23 C. C. P. A. 1039, 82 Fed.(2d) 709. It is my opinion that such use has not been established.

We think the Commissioner arrived at the right conclusion for the right reasons, and the decision appealed from is affirmed.

Affirmed.

HATFIELD, *J.*, did not participate in the consideration or decision of this case.

## U. S. Court of Customs and Patent Appeals

IN RE BERT H. LINCOLN AND ALFRED HENRIKSEN, DECEASED, BY JOHN W. WOLFE, ADMINISTRATOR DE BONIS NON

*No. 5,035. Decided June 25, 1945*

[150 F.(2d) 576; 66 USPQ 240]

1. CLAIMS—"COMPRISING."

   The use in claims of the term "comprising" *Held* equivalent to the use of the word "including."

2. APPEAL—RULE 138.

   An affidavit filed along with a petition to the Board of Appeals for reconsideration *Held* not properly before the Board, since no request was made under rule 138 of the Rules of Practice in the United States Patent Office that the case be remanded to the Primary Examiner.

3. SAME—RECORD.

   "While the Board stated that the affidavit was filed, it did not say that it considered the same; and since it presumably acted in accordance with the said rules and did not remand the case to the Examiner, it proceeded without considering the affidavit. The affidavit therefore is not a proper part of the record here. See *In re Christmann et al.*, 29 C. C. P. A. (Patents) 1037, 128 F.(2d) 596, 53 USPQ 634, 543 O. G. 3."

4. PATENTABILITY—LUBRICANT.

   Certain claims to a lubricant *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Messrs. Oberlin, Limbach & Day* (*Mr. Oscar C. Limbach* of counsel) for *Bert H. Lincoln* and *Alfred Henriksen*, deceased, by *John W. Wolfe*, administrator de bonis non.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

The alleged invention involved in this appeal from the decision of the Board of Appeals of the United States Patent Office, affirming the action of the Primary Examiner in finally rejecting all of appellants' claims (3 to 5, inclusive) in their application for patent, relates to a lubricant which comprises a mineral oil and a small amount of an ingredient formed by oxidizing a mixture of hydrocarbons and halogenating the resultant product.

The claims were rejected upon the patent to Bray, No. 2,257,328, issued September 30, 1941.

Claim 3, the broadest of the group, is illustrative of the subject-matter on appeal and reads as follows:

3. A lubricating composition comprising a major proportion of mineral oil and from about 1/10% to about 20% by weight based on the amount of mineral oil of the halogenated oxidation products of a mixture of hydrocarbons, the acid number of which has been substantially decreased by neutralization of the acids in such products.

Appellants' application stresses the fact that their alleged invention relates particularly to lubricating compositions for use under conditions of extreme pressure and high temperature. Concerning the alleged invention, the specification states:

Broadly stated, our invention contemplates the addition to mineral lubricating oils of relatively small quantities of a halogen containing neutral derivative of an acid produced by the oxidation of hydrocarbons, particularly aliphatic hydrocarbons, and those of petroleum origin.

Since the addition agent of our invention is unusually effective in increasing the extreme pressure characteristics of the lubricating composition to which it is added it has been found necessary to employ only small percentages, less than 20% by weight based on the amount of mineral oil, of such addition agent, and amounts as low as 0.1% and sometimes even less, may often be employed with effect. As a general rule, we have found that percentages of from about 0.1% to about 5% of the addition agent are satisfactory for most oils for most uses and very seldom is there any occasion to employ more than 10%.

The Board, in its original decision, had the following to say:

The appealed claims stand rejected on the patent to Bray which also relates to the addition of certain substances to lubricating oil, mainly for the purpose of preventing the accumulation of gums, resins, soot etc. on engine parts such as rings, valves, pistons etc. In this patent the addition agent is also obtained by the oxidation and chlorination of hydrocarbon mixtures but since it is desired to have a material which will act as a detergent the patent is concerned mainly with the production and use of soaps obtained by the saponification of the organic acids resulting from the oxidation of the mixture. The patent, however, states that the addition of these soaps imparts oiliness and extreme pressure characteristics to the lubricant. It appears from the description taken as a whole that the patentee after neutralization separates the soaps and throws away the other parts of the mixture, that is, he uses only the soap constituents and in this respect differs from the disclosure in this case where the whole mixture is employed. A careful examination of the description in this case fails to show wherein these products other than soaps have any useful function in the composition. In the absence of such showing it must be held that the appealed claims fail to distinguish over the Bray disclosure.

Claim 3 is generic. Claim 4 is limited to the use of mixtures containing cyclic hydrocarbons for the oxidation and halogenation treatment, while claim 5 is specific to acyclic hydrocarbons. Since lubricating oils may contain aromatic as well as aliphatic hydrocarbons it is not seen that these distinctions have any patentable weight.

It is quite true that the Bray patent includes also a corrosion inhibitor, but the omission of this compound and its function does not add anything of patentable value to the claims.

Appellants filed a petition for reconsideration and there made a number of contentions, among which was the contention that the Board's rejection was grounded upon that which was not urged by the Examiner. The chief contention was to the effect



that Bray did not use the whole oxidized mixture and that the Board was of the opinion that the part discarded served no useful purpose. Upon reconsideration, the Board stated that while it took cognizance of the fact that Bray did not use the whole oxidized mixture, it was of the opinion that the portion discarded did not serve any useful purpose. Upon the filing of an affidavit by one Musgrave, partly relating to the utility of using the entire oxidized mixture, the Board had the following to say:

Appellants allege that the discarded part possesses useful properties and have supplemented their argument by an affidavit of Dr. Musgrove, a man of wide experience in this art.

The characteristics of the patented mixture and that claimed are so alike that from the nature of the material it would be difficult to distinguish between the two. To us it appears to be a matter of degree only. In the course of preparation the Bray material appears to be the same as that claimed. The discovery that all of the Bray oxidized mixture was useful does not appear to be a matter of invention.

The Bray patent relates to a lubricant comprising mineral oil and a small amount of an ingredient formed by oxidizing a mixture of hydrocarbons, separating the soaps from the resultant product, and chlorinating the soaps.

It will be noticed that the chief difference between the patent and the appellants' alleged invention rests in the fact, which is much emphasized here by appellants, that Bray's lubricant contains other ingredients in addition to those recited in the appealed claims, whereas theirs does not; and that Bray does not employ the entire oxidized product of the hydrocarbon mixture, while they do.

[1] The Examiner pointed out that the appealed claims do not exclude other addition agents, since they use the term "comprising," which is equivalent to the use of the word "including."

It seems that the only question of any serious import involved in this appeal resides in the fact that appellants teach the use of all the product which results from the oxidation process, whereas the patentee discards 70 per cent of it. It was the holding of the Board that the discovery that there was utility flowing from the use of all the product rather than 30 per cent of it was not a matter of invention.

The Solicitor for the Patent Office points out:

* * * it seems at least questionable whether the claims require that *all* the products which result from the oxidation shall be included in the lubricant. Claims should be given the broadest interpretation of which they reasonably are susceptible * * * and it therefore does not seem proper to read the word "all" into the claims when the appellants have not seen fit to employ it and their application does not emphasize any distinction between the use of all the products and the use of part of them only. [Italics quoted.]

There is more than a doubt in our minds as to whether or not the claims should be interpreted as if the word "all" were included therein as modifying the term "oxidation products." Appellants' claims in this respect are broad, and if their invention rests in using the entire oxidized mixture instead of only selected portions thereof, as Bray does, the claims should specifically define this allegedly important matter.

Appellants stress with great earnestness that not only do they use the 30 per cent of soaps which Bray uses, but they have found that the other components of the oxidized hydrocarbon mixture are desirable for performing the purposes for which both inventions are intended. While it is true that Bray attached no importance to the use of the ingredients of the halogenated mixture other than its soap content, the inventions of the two parties are so similar, as far as the claims are concerned, that we are in agreement with the Board in its conclusion that even if it is desirable and useful to employ all of the mixture instead of a portion of it, it did not involve invention to determine that it was desirable to use all of it.

[2][3][4] By the foregoing holding, we are assuming that appellants' product in this respect is an improvement over Bray's. In this connection appellants urge our consideration for the affidavit of said Musgrave, which was filed along with the petition for reconsideration. The affidavit was not properly before the Board, since no request was made under rule 138 of the Rules of Practice in the United States Patent Office, relating to the filing of affidavits after the case is appealed to the Board, that the case be remanded to the Primary Examiner. While the Board stated that the affidavit was filed, it did not say that it considered the same; and since it presumably acted in accordance with the said rules and did not remand the case to the Examiner, it proceeded without considering the affidavit. The affidavit therefore is not a proper part of the record here. See *In re Christmann et al.*, 29 C. C. P. A. (Patents) 1037, 128 F.(2d) 596, 53 USPQ 634, 543 O. G. 3. The Solicitor has pointed out objectionable features in the affidavit, which we deem unnecessary to discuss. Assuming that the affidavit explains the importance of using all of the oxidized material rather than a portion thereof, and assuming that this limitation can be read into the claims and that appellants' new product is all the affidavit, in a laudatory way, claims for it, it is our view that it did not require invention to produce it.

The decision of the Board of Appeals is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

IN RE DRAEGER ET AL.

*No. 5,041. Decided June 25, 1945*

[150 F.(2d) 572; 66 USPQ 247]

1. APPLICATION—DISCLOSURE—CLAIMS COPIED FROM PATENT.

   Patent claims defining a process of alkylation in which olefinic and isoparaffinic hydrocarbons are reacted while flowing in a circuit, and calling for increasing the rate of flow of the materials in the circuit such that they traverse said circuit in less than 70 seconds, as in some claims, or in less than 45 seconds, as in others, *Held* not satisfied by the disclosure in appellants' application of a rate of flow resulting in a traverse time of between 36.9 seconds and 147 seconds.

2. SAME—SAME—SAME.

"We find, agreeably to the holding of the tribunals below, that there is no definite teaching in appellants' application as filed of the desirability of keeping the traverse time below the limits stated in the claims. Obviously the limits of 70 seconds and of 45 seconds must be regarded as material and critical. The mere fact that by manipulation of appellants' alkylation system it may be *possible* to limit the rate of flow in accordance with the limitations of the claims is not sufficient. Inherency does not mean that a thing might be done, or that it might happen, as in the instant case, one out of twenty odd times; but it must be disclosed, if inherency is claimed, that the thing will necessarily happen."

3. SAME—SAME—SAME.

"The mere fact that appellants' broad range overlaps at one end does not make it a disclosure of the critical limitations in the appealed claims. Appellants' application as filed fails to teach the gist of the invention here involved, and they should not now be permitted, on said disclosure, to extract from an issued patent, claims obviously based upon the disclosure of a critical element not even hinted at in their specification. To hold otherwise would encourage rather than discourage indefinite, broad disclosures and thus prevent inventions relating to critical matters, as does the one involved here, from being taught to the public."

4. SAME—SAME—SAME.

*Held* that *Wemple et al.* v. *Peirce et al.*, 22 C. C. P. A. (Patents) 1064, 75 F.(2d) 998, 25 USPQ 37, 458 O. G. 442, "should not be regarded as holding that in every case where a broad range given in an application overlaps that of a claim at some point, it will always form a sufficient basis for the right of making the claim."

APPEAL from the Patent Office. Affirmed.

*Mr. W. E. Currie*, *Mr. P. L. Young* and *Mr. W. F. Weigester* (*Mr. J. Cashman* of counsel) for Draeger et al.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

From a decision by the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 22 to 31, inclusive, of appellants' application for a patent, on the ground that the claims are not supported by appellants' application, appeal has been taken here.

Appellants' application relates to a method for continuously reacting saturated tertiary hydrocarbons and olefins. Claims 22 to 26, inclusive, were copied from the patent to Altshuler et al., No. 2,238,802, issued April 15, 1941. Claims 27 to 31, inclusive, correspond to claims 22 to 26, respectively, except for slight differences which are clearly immaterial and which were so regarded by the tribunals below and not claimed otherwise by the appellants. The allowance of the instant claims is sought for the purpose of provoking an interference with the said Altshuler et al. patent.

Claim 22 is regarded as illustrative of the appealed subject-matter and reads:

22. In a process of alkylation in which olefinic and iso-paraffinic hydrocarbons are reacted in the presence of a condensation catalyst while flowing in a circuit comprising a reaction zone into which reaction zone the iso-paraffinic and olefinic hydrocarbons are introduced in a feed in which the molar quantity of the iso-paraffinic hydrocarbon is greater than the molar quantity of the olefinic hydrocarbon, the improvement which comprises increasing the molar ratio of the iso-paraffinic hydrocarbon to the olefinic hydrocarbon in the reaction zone in excess of one hundred to one by increasing the rate of flow of the materials in the circuit such that they traverse said circuit in less than 70 seconds.

It will be observed from the claim and from portions of the Examiner's statement quoted infra that the instant subject-matter is highly technical, involving the chemistry of the elaborate process as well as the structure of the alkylation machinery with which the process is carried out.

The Examiner has, we think, properly described the Altshuler et al. patent in the following manner:

Both the present application and the patent to Altshuler et al. relate to the alkylation of isoparaffins such as isobutane by means of olefins such as butene in the presence of an alkylation catalyst such as concentrated sulfuric acid.

According to Altshuler et al., their process is conducted in such a way that they obtain in their reaction zone an isoparaffin to olefin ratio, in effect, in excess of 100 to 1 by the expedient of controlling the rate of circulation of the mixture of hydrocarbons and acid catalyst within their reaction zone. When the feed contains an increased amount of isoparaffinic hydrocarbon, they may reduce the circulation rate and when the amount of isoparaffinic hydrocarbon is reduced, the rate of circulation may be increased. They have found that they obtained certain desirable results by maintaing the rate of flow in the closed circuit within the reaction zone so that the reactants will traverse the circuit once in 45 seconds or in less than 70 seconds.

* * * * * * *

As the Examiner understands the Altshuler et al. patent, by means of the foregoing apparatus and mode of operation the patentees are enabled to get an effect of very high ratios of isoparaffin to olefin within the reaction zone. This is due to the fact that the feed to the reaction zone contains an excess of isoparaffin over olefin and since the reaction between isoparaffin and olefin is on a mol for mol basis, there is a large amount of accumulated unreacted isoparaffin passing the point of introduction of olefin feed at any one moment and the amount of isoparaffin passing such point is dependent upon the rate of circulation which in the patented claims is given in the time in seconds it takes to complete the circuit in the reaction zone.

Then, referring to appellants' disclosure, he, by commenting upon the drawings and the specification, points out the following:

* * * Applicants practice one other control and that is the regulation of the length and/or the velocity of the stream so as to provide a contact time under reaction conditions of from about 30 minutes to 2 hours.

He then calls attention to the fact that some of the appealed claims call for a rate of flow of the materials in the circuit, as for instance in claim 1, in less than 70 seconds, while in other claims the limit is 45 seconds.

In holding that the appealed claims were not supported by appellants' disclosure and in denying the requested interference, the Examiner in part said (omitting immaterial numerals, dates, etc.):

As has been pointed out in the foregoing, applicants disclose * * * ratios of recycle stock to fresh feed in excess of about 15:1 and preferably between 35:1 and 65 to 1, * * * overall ratio of acid to hydrocarbons in the circulating system of between 1:3 and 3:1, and * * * the regulation of the length and/or the velocity of the stream so as to provide a contact time under reaction conditions of from about thirty minutes to one hundred and twenty minutes.

A careful study of the original disclosure does not show any instruction by applicants of any manner in which the three different variables are to be correlated with each other. There is no instruction that the lower limit of any one variable or the lower limit of the preferred range of any one variable be used with the lower limits of the other variable or with the lower limit of the second and the upper limit of the third variable or that the lower limit of one be used with some intermediate value of the other variables. The charts or curves presented with the amendment * * * appear to show * * * a very minor portion of the possible correlations may satisfy the terms of the claims (with no support shown for the particular correlations). One chart shows that substantially only for a correlation of 30 minutes contact time, 1:3 acid to hydrocarbons ratio, and ratios between 35 and 65 of recycle stock to fresh feed will the terms of the claims be met. The second chart shows that only the specific correlation (not disclosed originally) of 30 to 60 minutes contact time, 1 to 3 acid to hydrocarbon ratio, and 65:1 recycle ratio will substantially meet the claims.

The calculations presented * * * are on the basis of a 30 minute contact time, 65:1 recycle ratio, and acid to hydrocarbon ratio of 1:3. This gives a traverse time of 36.9 seconds. Why this particular correlation? The Examiner feels justified, for example, to consider the contact time 120 minutes. This gives a time of 147 seconds which is way above "less than 70 seconds" or "less than 45 seconds."



[1] The question presented to the Patent Office tribunals and here is: the appellants having disclosed a rate of flow resulting in a traverse time of between 36.9 seconds and 147 seconds (assumed but not determined by us), are they entitled now to have claims limiting the traverse time to less than 70 seconds and less than 45 seconds, respectively?

It is the contention of appellants that the said traverse time claimed, though not specifically mentioned by them in the application, is inherent in the process disclosed therein. In so contending, they set out in their brief a much-involved matematical formula, which would not be helpful to reproduce here, from which they argue that an inherent traverse time of 36.9 seconds is indicated. The Patent Office tribunals, assuming that the formula was accurate, nevertheless held that a disclosure of a traverse time range, claimed to be inherent, from 36.9 seconds to 147 seconds was not a proper disclosure to form the basis of the claims at bar, limited as they are to less than 70 seconds and less than 45 seconds, respectively.

The Solicitor for the Patent Office, taking the appellants' formula and using the maximum contact time of 120 minutes and substituting certain other variables taken from appellants' disclosure so as to give the maximum traverse time, obtained a result of 822.8 seconds. He then states in his brief:

The situation is thus presented that the application discloses as suitable a range of values which will result in traverse times varying from 36.9 seconds to 822.8 seconds and, on the basis of this disclosure, the appellants desire to claim as their invention the use of a traverse time of less than 45 or less than seventy seconds. It will be seen that the permissible traverse times of the application cover a range of 785.9 seconds (from 36.9 to 822.8) and that of this range only 33.1 seconds (from 36.9 to 70) satisfies the requirements of any of the appealed claims. This means that less than one twenty-third of the range which the application gives as suitable will satisfy the requirements of any of the claims.

In view of our conclusion as to the controlling question of law involved, it is not necessary for us to determine whether or not the Solicitor's figure representing maximum traverse time is correct. This matter is in some doubt, and we think the result is the same whichever maximum traverse time is accepted.

[2][3] The rule that limitations in claims copied from a patent for interference purposes cannot be considered as immaterial is settled law. *In re Creveling*, 20 C. C. P. A. (Patents) 701, 61 F.(2d) 862, 15 USPQ 264, 426 O. G. 4; *In re Replogle*, 21 C. C. P. A. (Patents) 1068, 70 F.(2d) 375, 21 USPQ 392, 447 O. G. 221. We find, agreeably to the holding of the tribunals below, that there is no definite teaching in appellants' application as filed of the desirability of keeping the traverse time below the limits stated in the claims. Obviously the limits of 70 seconds and of 45 seconds must be regarded as material and critical. The mere fact that by manipulation of appellants' alkylation system it may be possible to limit the rate of flow in accordance with the limitations of the claims is not sufficient. Inherency does not mean that a thing might be done, or that it might happen, as in the instant case, one out of twenty odd times; but it must be disclosed, if inherency is claimed, that the thing will necessarily happen. *Brand* v. *Thomas*, 25 C. C. P. A. (Patents) 1053, 96 F.(2d) 301, 37 USPQ 505, 496 O. G. 561; *Hansgirg* v. *Kemmer*, 26 C. C. P. A. (Patents) 937, 102 F.(2d) 212, 40 USPQ 665, 505 O. G. 514; *Schweyer* v. *Thomas*, 21 C. C. P. A. (Patents) 871, 68 F.(2d) 957, 20 USPQ 277, 443 O. G. 837. The mere fact that appellants' broad range overlaps at one end does not make it a disclosure of the critical limitations in the appealed claims. Appellants' application as filed fails to teach the gist of the invention here involved, and they should not now be permitted, on said disclosure, to extract from an issued patent, claims obviously based upon the disclosure of a critical element not even hinted at in their specification. To hold otherwise would encourage rather than discourage indefinite, broad disclosures and thus prevent inventions relating to critical matters, as does the one involved here, from being taught to the public.

[4] Appellants have based their argument almost exclusively upon the proposition that the principle laid down in *Wemple et al.* v. *Peirce et al.*, 22 C. C. P. A. (Patents) 1064, 75 F.(2d) 998, 26 USPQ 37, 458 O. G. 442, is controlling of decision here and should have been followed by the Patent Office tribunals. They state in their brief that—

* * * This dispute really narrows down, therefore, as to whether or not the Patent Office was right or wrong in failing to follow the precedent set by the Wemple et al. case.

In that case, it is noted that this court quoted the following from the decision of the Board of Appeals:

The ranges recited in the counts cover substantial parts of the ranges disclosed in the two applications. * * *

The court then stated that "No contention is made respecting the correctness of the foregoing finding."

The situation in that case is not the one presented here. There the inventions of the parties were substantially the same, as was disclosed by the similarity of the ranges of both parties. That case should not be regarded as holding that in every case where a broad range given in an application overlaps that of a claim at some point, it will always form a sufficient basis for the right of making the claim. In the instant case, as has been pointed out, the ranges in the appealed claims are so different from the ranges disclosed by appellants that it is obvious that the inventions are different.

Appellants have made other contentions in their main and reply briefs which go to the question of the alleged misunderstanding on the part of the Board and the Solicitor with respect to the rate

of flow being related to the traverse time. They then enter into a discussion of the relationship of a slow rate of circulation to a longer traverse time and the so-called contact time.

As stated before, the tribunals of the Patent Office (the Board expressing some doubt) accepted appellants' figures which disclosed a traverse time ranging between 36.9 seconds and 147 seconds (although the Board made no definite finding as to the maximum). Eliminating the technicalities, which are difficult to understand, the question admittedly is whether, assuming the appellants' traverse time at one end of the range is within the traverse time of less than 70 seconds and less than 45 seconds of the patent and of the appealed claims, the Patent Office tribunals, as is insisted by appellants, made a mistake in law in not following the Wemple case, supra. Appellants argue at great length that claims to which they would be entitled on the basis of their disclosure would clearly dominate the claims of the patent, and that under all the circumstances, if they are entitled to claim a traverse time between 36.9 seconds and 147 seconds, which they state the Examiner does not deny, and no right of priority is tried by an interference proceeding, it would not be equitable to the patentees.

Appellants, upon the foregoing premise, urge:

> • • • Wouldn't it be more equitable to set up an interference involving that portion of Altshuler et al. which they can make between Altshuler et al. and these appellants? Wouldn't it be advisable to declare an interference on these copied claims and permit Altshuler et al. to put in whatever defenses are available to them from records, which undoubtedly they would be able to bring forward? It might be that if the appellants' specification, which is still in application form, were thrown open to Altshuler et al., they might see fit to reissue their patent and seek broader claims, because it is submitted, and no one seems to deny it, that there is a great deal of similarity between the disclosure of Altshuler et al., on the one hand, and these appellants on the other.

Appellants seem to think that the Patent Office and this court are privileged to throw a patent owner into an interference and compel the determination of issues based upon what might happen if the interference were between two applicants or if the patentee sought a reissue.

Our holding herein is based upon the theory that the invention of the patentees is largely a matter of the discovery of a critical traverse rate, a portion of which is within the limits of the range of appellants. Unlike the facts in the Wemple case, supra, the inventions are different; and if appellants can, by manipulation of their device, regulate the traverse time to the range claimed in this appeal, the specific selection or combination of variables required to produce that result is not taught in their application. As before stated, the range of the appealed claims cannot be said to be inherent in their structure.

Therefore we are not here concerned with appellants' highly technical contentions with respect to alleged misunderstandings of the Patent Office tribunals concerning what appellants freely admit involves "consideration of some highly technical matters," because if everything contended for by appellants were true except their contention on said question of law, the decision below would have to be affirmed upon the statement of facts as presented by the appellants.

The Board's decision, which is complained of in many respects by appellants, is not as definite and specific as could be desired, but notwithstanding this fact, and even though some of appellants' contentions may not have been fully understood by it, we think it arrived at the right conclusion on the question of law involved.

We are in agreement with the following statement of the Solicitor in his brief:

> It is not apparent that the refusal of the appealed claims will be a hardship to the appellants. If, as they apparently contend, the particular traverse time specified is not critical, then claims which omit such time or define it more broadly should be as patentable as the appealed claims. The appellants should not be permitted, on the one hand, to include a definite limitation in claims, which cannot properly be done unless such limitation is a part of their invention, and, on the other hand, to base their right to make the claims on the contention that the limitation is actually of no consequence and that values other than those to which the claims are limited are equally suitable.

Claims 25, 26, and 31 were also rejected by the Examiner on the further ground that the appellants do not teach the removal of heat in the reaction zone. This holding was not reversed by the Board of Appeals, and it said nothing about this ground of rejection. In view of our conclusion, it is not necessary for us to give it any consideration.

The decision of the Board of Appeals is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

THE PHYSICIANS & HOSPITALS SUPPLY CO., INC., d. b. a. ULMER PHARMACAL COMPANY

*v.*

BAYER-SEMESAN COMPANY, INC., NOW BY CHANGE OF NAME, DU PONT SEMESAN COMPANY, INC.

*No. 5,047. Decided June 25, 1945*

(150 F.(2d) 422; 66 USPQ 259)

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.
   The fungicide to which appellant applies the trade-mark "Thio-zin," and which is used as an "inhibitive dusting powder" for the prevention or recurrence of trycophyton infection of the feet, commonly known as "athlete's foot," one place of use being the locker rooms of golf clubs, *Held* to be goods of the same descriptive properties as the fungicide to which appellee applies the mark "Thiosan," and which is sprayed on turfed areas, principally putting greens on golf courses, for the prevention and control of so-called "brown patch" and "dollar spot."
2. SAME—CONFUSING SIMILARITY.
   "We think there is likelihood of confusion as to the origin of the two products if sold under the involved trade-marks, and that if appellant's product is sold in large containers, as it may well be, • • •, and the fungicides of the parties are stored in the same storeroom, as they are apt to be, there is also likelihood of appellee's product being used for that of appellant, thereby causing injury to the user thereof."
3. SAME—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.
   "Were the marks of the parties identical, that is, had appellee adopted appellant's trade-mark 'Thio-zin' for use on its fungicide, we think that it could not reasonably be argued that the concurrent use of such mark on the fungicides of the parties would not be likely to cause confusion in the mind of the public, both as to the origin of the fungicides and as to the fungicides themselves. If our premise is sound, and we think it is, it follows that the fungicides of the parties possess the same descriptive properties."
4. SAME—SAME.
   "It is true, as stated by the Commissioner of Patents, that the products of the parties are not competitive. That fact in itself, however, is not controlling, as many articles, including chemical compounds, which possess the same descriptive properties are not competitive."

APPEAL from the Patent Office. Reversed.

*Mr. James Atkins* (*Messrs. Merchant & Merchant* of counsel) for The Physicians & Hospitals Supply Co., Inc., d. b. a. Ulmer Pharmacal Company.

*Mr. J. Hanson Boyden* (*Mr. Wilson C. Baily* of counsel) for Bayer-Semesan Company, Inc., now by change of name, Du Pont Semesan Company, Inc.

HATFIELD, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents (61 USPQ 53) reversing the decision of the Examiner of Interferences sustaining appellant's notice of opposition and holding that appellee was not entitled to register the trade-mark "Thiosan" for use on agricultural and horticultural fungicides.

It appears from the record that appellee has used its mark on its goods since about June 2, 1942.

In its notice of opposition appellant alleged that it was the owner of the trade-mark "Thio-zin" for use on a fungicidal powder; that it had used its mark on its goods since about July 1934; and that it would be damaged by the registration of the mark "Thiosan" to the applicant (appellee).

Evidence was introduced by each of the parties.

It is conceded by counsel for appellee that appellant has used its mark on its goods since long prior to the use by appellee of its mark, and that if the goods of the respective parties possess the same descriptive properties, the marks are confusingly similar. Accordingly, the sole issue before us is whether the goods of the parties possess the same descriptive properties.

It appears from the record that the appellant company manufactures and sells several hundred different articles, including pharmaceuticals, medicinal preparations, drugs, insect powder, liquid soaps, cold cream, window cleaners, etc.; that the company also sells all equipment necessary for hospitals, doctors' offices, and government institutions, including furniture, beds, sterilizers, surgical instruments, rubber goods, kitchen wear, cotton goods, and practically everything used in such offices or institutions; that appellant's product on which it uses its trade-mark is a fungicide and is composed of 20% sodium thiosulphate anhydride, 10% zinc oxide, 29.8% boric acid, 0.2% chlorthymol, and 40% inert ingredients; that it is used as an "inhibitive dusting powder" for the prevention or recurrence of trycophyton infection of the feet, commonly known as "athlete's foot"; that it is sold in two-ounce and seven-ounce containers, although, according to appellant's witness George G. Ulmer, Jr., president and general manager of the appellant company, his company would be glad to sell it in bulk or in large containers; that appellant's fungicide is advertised by means of catalogues; that it is sold by appellant to wholesale drug houses, doctors, hospitals, government institutions, department stores, so-called "country general stores" distributors of miscellaneous merchandise, athletic teams, and golf clubs; that it is used in the locker rooms of golf clubs to be dusted on the feet as a preventative of "athlete's foot" which is quite prevalent.

The witness Ulmer stated that the fungus which causes so-called "athlete's foot" is sometimes obtained by walking on grass. In this connection, he said:

> • • • The big trouble with the Japanese Army, according to Government records, is the fact that they catch a fungus on account of walking barefooted on all these islands, and carry a can of powder to cure it.

The witness further stated that the active ingredient in appellant's fungicide is sodium thiosulphate; that the ingredients in appellant's product make it suitable for use as an agricultural or horticultural fungicide. In explanation of the latter statement, he stated that the effectiveness of both appellant's and appellee's product depends to a large extent "on the liberation of nascent sulphur, and in the action of sulphur in that form and in combination, it produces the effect of killing the fungus." He stated, however, that, so far as he knew, the appellant company had never attempted to use its product as an agricultural or horticultural fungicide.

It appears from the record that the product on which appellee uses its mark "Thiosan" is in the form of powder; that it is mixed with water and used as a spray on turfed areas, principally putting greens on golf courses, for the prevention and control of so-called "brown patch" and "dollar spot" which are fungus diseases; that it is advertised in publications such as "Golfdom," "Greens Keeper Reporter," "Parks and Recreation," and "Better Homes and Gardens"; that it is a non-mercurial fungicide composed of 50 per cent tetramethyl thiuramdisulfide and 50 per cent inert ingredients; and that it is sold by appellee in drums or other containers in quantities of 5, 25, and 100 pounds to so-called "golf supply houses" which supply "golf clubs" with machinery, seed, insecticides, fertilizer, and fungicides.

In advertising its product, appellee cautions the user not to "inhale the dust nor allow the dust to accumulate on the skin. Irritations of the skin or even more serious physiological disturbances may result from failure to observe these precautions. Should you employ this product dry, wear a dry filter dust mask over the nose and mouth, changing the filter medium often enough to maintain filtering efficiency. Wash the dust promptly off the skin with plenty of soap and water." Appellee also admonishes users of its product that "Those few people whose skins are sensitive to *sulfur* should not permit Thiosan to accumulate on the skin. With these occasional exceptions, Thiosan is considered relatively non-poisonous to warm-blooded animals." [Italics ours.]

Appellee's witness Gilbert F. Miles, an employee of the appellee company and in charge of research in the development of fungicides, "particularly in the field of seed disinfection and soil disinfection," testified that he made laboratory tests to determine the comparative values of appellant's and appellee's products as agricultural or horticultural fungicides; that on the basis of those tests he estimated that as to the fungus rhizocgonia solani, appellant's product "Thio-zin" was about one-twentieth as effective as appellee's product; that, as to the fungus fusarium nivale, appellant's product was only about one-eightieth as effective as appellee's product; and that, in his opinion, appellant's fungicide would exert an insignificant action against fungi which attacked grass and other vegetation. The witness stated that appellee's fungicide contained none of the active ingredients present in appellant's fungicide, and that the "sulphur radical" was not its "active ingredient."

In his decision holding that the goods of the respective parties possess the same descriptive properties, and sustaining appellant's notice of opposition, the Examiner of Interferences stated, among other things, that, although the goods of the parties were substantially different, both were chemical preparations and fungicides used for the eradication of fungi; that the differences in their composition and use corresponded "merely to the particular fields of fungus control for which they are respectively intended"; and that the sale of such products under the same or similar trade-marks would be likely to cause purchasers to believe that the goods had the same origin.

In his decision reversing the decision of the Examiner of Interferences and holding that the goods of the parties do not possess the same descriptive properties and that, therefore, the similarity of the involved marks was immaterial, the Commissioner of Patents stated the facts as hereinbefore related, and, among other things, said:

> The goods of the parties are noncompetitive, and neither can be substituted in use for the other. Both are chemical compositions, but they have no ingredients in common. Broadly speaking, both are fungicides; but so are a pickel barrel and a cigarette case both containers.
>
> Obviously the generic name of an article does not necessarily determine its descriptive properties in relation to those of another article. The "distinguishing dissimilarity" between the goods "may rest not only in the 'essential characteristics' of the goods themselves with reference to their form, composition, texture and quality, but may rest in the use to which they are put, the manner in which they are advertised, displayed and sold, and probably other considerations." *California Packing Corporation* v. *Tillman & Bendel, Inc.*, 17 C. C. P. A. 1048, 40 Fed.(2d) 108.

It will be observed that the first syllable of each of the marks in question is the word "thio."

Webster's New International Dictionary defines "thio" as "A combining form (also used adjectively) denoting the presence of sulphur;—used specifically to indicate that the oxygen of a compound is more or less replaced by sulphur," and states that sulphur is used, among other things, for destroying fungi. The same authority defines "fungicide" as "Any substance that destroys fungi." Sulphur is, therefore, a fungicide.

The active ingredient in appellee's fungicide is tetramethyl thiuramdisulfide, a chemical compound in which sulphur is undoubtedly combined with other chemicals. The sulphur, therefore, would not be expected to exist in a free state. However, inasmuch as in its advertisements appellee admonishes those whose skins are sensitive to sulphur not to permit the dust from its fungicide to accumulate on the body, it is evident that sulphur must be present, at least at times, in a free or nascent state, otherwise there would be no occasion for appellee to warn users of its sulphur content.

It will be recalled that appellant's witness Ulmer testified that the effectiveness of both appellant's and appellee's fungicides depends to a large extent "on the liberation of nascent sulphur." If that statement is correct, it may be, although we do not intend to discuss the case from the standpoint of chemistry, that the molecules in appellee's chemical compound become decomposed, thus liberating nascent sulphur.

Chemically the term "nascent" is defined as "the condition of an element at the moment of liberation from a compound, marked, as in the case of hydrogen or oxygen, by a chemical activity greater than the ordinary." Webster's New International Dictionary. See also Hackh's Chemical Dictionary.

[1][2][3][4] Owing to the similarity of the marks in question and inasmuch as the products of the respective parties are fungicides and are sold to "golf clubs," one for use on the putting greens and the other for use as a dusting powder in locker rooms, we think there is likelihood of confusion as to the origin of the two products if sold under the involved trade-marks, and that if appellant's product is sold in large containers, as it may well be, according to the testimony of appellant's witness Ulmer, and the fungicides of the parties are stored in the same storeroom, as they are apt to be, there is also likelihood of appellee's product being used for that of appellant, thereby causing injury to the user thereof.

Were the marks of the parties identical, that is, had appellee adopted appellant's trade-mark "Thiozin" for use on its fungicide, we think that it could not reasonably be argued that the concurrent use of such mark on the fungicides of the parties would not be likely to cause confusion in the mind of the public, both as to the origin of the fungicides and as to the fungicides themselves. If our premise is sound, and we think it is, it follows that the fungicides of the parties possess the same descriptive properties.

It is true, as stated by the Commissioner of Patents, that the products of the parties are not competitive. That fact in itself, however, is not controlling, as many articles, including chemical compounds, which possess the same descriptive properties are not competitive.

We have given careful consideration to the views expressed by the Commissioner and to those urged upon us by counsel for appellee, but are of opinion, as was the Examiner of Interferences, that the goods of the parties possess the same descriptive properties; that the marks are confusingly similar; and that as appellant has used its mark "Thio-zin" on its goods since long prior to the use by appellee of the mark "Thiosan," appellee is not entitled to the registration which it seeks.

For the reasons stated, the decision of the Commissioner of Patents is reversed.

Reversed.



## U. S. Court of Customs and Patent Appeals

IN RE BANOVIC

No. 5,038. *Decided June 25, 1945*

[150 F.(2d) 579; 66 USPQ 244]

PATENTABILITY—GLOVE.

In appellant's reissue application, certain claims to a fourchette for a glove *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Messrs. Wheeler, Wheeler & Wheeler, Mr. S. L. Wheeler* (*Messrs. Cushman, Darby & Cushman, Mr. C. Willard Hayes* of counsel) for Banovic.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting, in view of prior art, claims 3, 4 and 5 of an application, Serial No. 434,259, filed March 11, 1942, for a reissue of Patent No. 2,234,664, dated March 11, 1941. Claims 1 and 2 were allowed.

The references cited are: Charney, 1,235,010, July 31, 1917; Green, 2,049,989, May 19, 1936.

Claim 4 is illustrative of the subject matter of the rejected claims and reads as follows:

> 4. A fourchette for a glove, said fourchette including a central angular portion conforming in size and contour to that of a fourchette crotch between two adjacent glove fingers, continuous strips extending from said angular portion to provide side portions for said adjacent fingers, said strips being provided respectively with additional similar angle portions and finger-side portions for glove fingers and crotches therebeyond.

The application relates to improvements in gloves, in which the back and palm portions are separated in the finger extensions by a single fourchette, which is a forked piece between glove fingers uniting the back and front parts thereof.

The Charney patent relates to similar improvements in gloves, particularly work gloves. It discloses a single continuous fourchette between the glove fingers, sewed to a leather palm and a fabric back, or for an entire fabric glove.

The patent to Green relates to an improved fourchette for gloves, and was cited by the Examiner merely to show in the angle of the fourchette a sloping shape in the crotch between the fingers.

The only difference between the fourchette blank of appellant and that of the Charney patent is that in the latter the fold at the middle of the blank is designed and adapted to cover the tip of the middle finger of the glove instead of being at the crotch between the middle and third finger as in appellant's glove. In other words, one is the reverse of the other. Appellant contends that the rejected claims should be held to be patentable for the alleged reason that such difference is not a mere change of design but an adaptation of his fourchette for use in a different position to perform a different function.

Clearly, the structure of the Charney reference possesses all the structural characteristics of appellant's structure, and it does not seem to us that the positioning of the fourchette with angles at the finger tip or at the crotch is material in a patent sense. It is true that the structure in the Charney reference does not show an acute angle or a slope in the crotch between the fingers, but such angle and slope are clearly shown in the structure of the Green patent.

In our opinion there is no invention in making the fourchette of a continuous piece in such form that the folds would fit slopingly in the crotches of the glove of appellant, in view of the Charney and Green patents.

The decision of the Board of Appeals is affirmed.

Affirmed.

## Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,548,048, 1,707,214, H. C. Lord, Joint; 1,856,647, same, Joint mechanism; 1,862,483, same, Automobile engine mounting; 1,862,484, Lord & Whitehouse, Mounting, D. C., W. D. Pa., Doc. 52, *Tyson Bearing Corp.* v. *Lord Mfg. Co.* Complaint and counterclaim dismissed without prejudice Sept. 4, 1945.

1,589,017, J. C. Lincoln, Method and means for electric-arc welding, filed Oct. 8, 1945, D. C., N. D. Ohio, E. Div., Doc. 23448, *The Lincoln Electric Co.* v. *The Linde Air Products Co.*

1,694,823, D. C. Larson, Automatic elevator; 1,904,647, D. L. Lindquist et al., Elevator system, filed Oct. 2, 1945, D. C., N. D. W. Va. (Elkins), Doc. E 126, *Otis Elevator Co.* v. *The City of Grafton, W. Va., et al.*

1,707,214. (See 1,548,048.)

1,806,356, Lynn & Malouf, Method and apparatus for treating motor fuel; 1,806,404, same, Motor fuel treating device; 1,806,406, W. M. Malouf, Attachment for internal combustion engines, filed Sept. 18, 1945, D. C., S. D. Calif. (Los Angeles), Doc. 4770-H, *W. M. Malouf* v. *F. A. Stearns et al.*

1,806,404. (See 1,806,356.) 1,806,406. (See 1,806,356.)

1,856,647. (See 1,548,048.)

1,859,496, Re. 20,996, H. C. Buffington, Scraper or grader, D. C., S. D. Ill., S. Div., Doc. 373, *The Baker Mfg. Co.* v. *The Central Illinois Tractor & Equipment Co.* Claims 17 and 21 of 1,859,496 held valid and infringed, claims 20, 21, 26, 27, 28, and 29 of reissue held invalid for lack of invention; complaint dismissed insofar as it charges infringement of Re. 20,996 (notice Oct. 1, 1945.)

1,862,483. (See 1,548,048.) 1,862,484. (See 1,548,048.)

1,879,003, G. A. Alles, Salts of 1-phenyl-2-aminopropane, D. C. N. J., Doc. 2311, *Smith, Kline & French Laboratories* v. *Clark & Clark et al.* Judgment for injunction in favor of plaintiff; counter claim dismissed (notice Oct. 1, 1945). Same, D. C., N. D. Ill., E. Div., Doc. 45c1001, *Smith, Kline & French Laboratories* v. *Gamma Pharmaceutical Co. et al.* Consent judgment, patent held infringed, injunction Oct. 26, 1945. Doc. 45c1003, *Smith, Kline & French Laboratories* v. *National Drug Laboratories, Inc., et al.* Decree as above Oct. 29, 1945.

1,904,647. (See 1,694,823.) 1,928,519. (See 1,973,592.)

1,954,558, E. W. Conrad, Lifting jack, D. C., S. D. Tex. (Houston), Doc. 1879, *The Dalton Foundries, Inc.*, v. *R. C. Flynn.* Consent decree holding infringement, injunction Oct. 11, 1945. Doc. 1880, *The Dalton Foundries, Inc.*, v. *Houston Light Steel Mfg. Co.* Decree as above Oct. 13, 1945.

1,961,242, J. J. Osplack, Angle tangent to radius dresser, D. C., S. D. Ind. (New Albany), Doc. 161, (864), *Vinco Corp.* v. *W. F. Myers Co., Inc.* Decree for injunction, cause referred to special master Sept. 26, 1945.

1,973,592, J. Weisinger, Airplane toys and instructor apparatus; 1,928,519, same, Airplane maneuvering apparatus, filed Oct. 10, 1945, D. C. N. J., Doc. 6625, *General Mills, Inc.*, v. *J. Weisinger.*

2,043,960, L. T. Jones, Electric welding, filed Oct. 1, 1945, D. C., N. D. Ind. (Hammond), Doc. 607, *The Linde Air products Co.* v. *Graver Tank & Mfg. Co., Inc., et al*

2,111,169, T. B. Clark, Valve, filed Sept. 28, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1628, *Automatic Pump & Softener Corp.* v. *Permutit Co.*

2,214,121, C. E. Costello, Tool for handling fluid in wells, filed Sept. 22, 1945, D. C., S. D. Calif., C. Div., Doc. 4783B, *Baker Oil Tools, Inc.*, v. *Servoil Tool Co.*

2,228,602, J. L. Kolb, Oil burner furnace, D. C., E. D. Pa., Doc. 1610, *J. L. Kolb* v. *Penn Boiler & Burner Mfg. Corp. et al.* Dismissed Aug. 17, 1945.

2,245,559, C. A. Kinninger, Wall form tie, filed Dec. 2, 1941, D. C., N. D. Ohio, E. Div., Doc. 21050, *C. A. Kinninger et al.* v. *The S. W. Emerson Co.*

2,318,152, A. Gelardin, Cosmetic holder, D. C., S. D. Ohio, W. Div., Doc. 841, *A. Gelardin* v. *The Cincinnati Advertising Products Co. et al.* Dismissed for want of prosecution, without prejudice Oct. 2, 1945.

2,357,312, J. Cryns, Method of preparing wheat germ for use in baking, filed Oct. 3, 1945, D. C., N. D. Ind. (Fort Wayne), Doc. 264, *The Bryo Co.* v. *G. Best.*

2,379,783, Boles & Taylor, Method for the production of a hollow textile material, filed Sept. 21, 1945, D. C. Vt. (Burlington), Doc. 639, *The Hartford Rayon Corp.* v. *Fair Haven Mfg. Co. et al.*

2,383,667, A. J. Matter, Fluid seal, filed Sept. 28, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1630, *Brummer Mfg. Corp.* v. *Crane Packing Co. et al.*

2,386,590, V. Calhoun, Catamenial device, filed Oct. 12, 1945, D. C., N. D. Ohio, W. Div., Doc. 5351, *V. Calhoun et al.* v. *The Lane Drug Co.*

Re. 20,996. (See 1,859,496.)

Re. 21,447, G. S. Allin, Bulldozer, D. C., S. D. Ill., S. Div., Doc. 374, *Gar Wood Industries, Inc.*, v. *Control Illinois Tractor & Equipment Co.* Claims 2, 3, 8, 9, 10, 11, and 12 held invalid for want of invention. Dismissed for want of equity (notice Oct. 1, 1945).

Des. 141,382, O. F. Placco, Brooch, filed Oct. 4, 1945, D. C., S. D. N. Y., Doc. 33/216, *Barker & Barker, Inc.*, v. *T. & F. Jewelry Co., Inc.* Doc. 33/217, *Barker & Barker, Inc.*, v. *L. L. Cocen et al.* Doc. 33/339, *Barker & Barker, Inc.*, v. *M. Moscowitz.*

T. M. 283,982, Gaby, Inc., Cleansing cream; T. M. 355,905, Foley & Co., Vitamin compound of vitamin A, B, D and G for general tonic use, filed Mar. 22, 1945, D. C., N. D. Ill., E. Div., Doc. 45c361, *Oxford Products, Inc.*, v. *Foley Co.*

T. M. 355,905. (See T. M. 283,982.)

## Register of Patents Available for Licensing or Sale

Pat. 2,349,824. ROLLER BEARING SEPARATOR. Patented May 30, 1944. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Composed of a plurality of individual sections provided at intervals with apertures for receiving rollers and space bars of substantially Z-shape section. For use in units of single raceway type for supporting radial or thrust loads, or a combination thereof, in all directions. Supports rollers along their entire axis. (Owner) Eugene H. Irasek, 7127 Arlington Ave., Bethesda, Md. Groups 35—66—93; 38—31. Reg. No. 635.

Pat. 2,038,071. FLUID TREATING DEVICE. Patented Apr. 21, 1936. Device made of paper, fibrous material, or molded from other material, for treating air, gas, etc., for purification and deodorization whereby a maximum area containing a reactive chemical is exposed (may be used in refrigerators or relatively small enclosed spaces). Corrugated sheet secured to flat sheet has all exposed surfaces provided with a chemical reactive which may be mixed with material during manufacture. Sheet is wound upon itself forming a compact, open cylindrical body enclosed by suitable container having perforations to permit circulation of air. (Owner) Patent Finance Corp., 9145 So. Leavitt St., Chicago, Ill. Groups 26—11; 28—89; 35—84. Reg. No. 636.

Pat. 2,338,633. SHEDDING MECHANISM FOR LOOMS. Patented Jan. 4, 1944. Various types of bindings and wide range of figures or designs can be produced. Over twice as many shaft harnesses can be assembled in usual space thereby simplifying weaving of complicated or fancy designs. Relatively long heddles can be changed while warp threads are entered through entire harnesses and tend to prevent chafing and rubbing of threads. Warp threads entered through harnesses do not all pass center of shed at same time, being shifted from one line to the other by reciprocating movement of griff plates. (Owner) Leopold Fuchs, 1724 41st St., North Bergen, N. J. Groups 22—11—21; 35—52. Reg. No. 637.

Pat. 2,228,957. FOOTSTOOL. Patented Jan. 14, 1941. Inverted frame with a removable, reversible cushion covered with material of different colors and design to match or blend with different pieces of furniture. Ends of frame have arcuately-shaped diverging portions forming legs, and rounded ends forming feet which are connected by rungs to support frame. (Owner) Walter Henry, 68 Holmes St., Braintree 84, Mass. Groups 25—11—12—13; 39—41. Reg. No. 638.

Pat. 2,187,412. ANTIRATTLING DEVICE. Patented Jan. 16, 1940. Countersunk in either a window frame or sash. Device eliminates use of sash cords, pulleys, and weights; obviates the need for buffer members in the form of rollers; prevents rattling; and provides a weatherproof joint. Comprises a small substantially box-shaped metal casing having two yieldable spring-tensioned projections. (Owner) John B. Benson, 83 Dorchester Ave., Pittsfield, Mass. Groups 24—31; 25—61; 33—73—83. Reg. No. 639.

Pat. 2,383,448. EAR ORNAMENT. Patented Aug. 28, 1945. Single piece of resilient wire bent to form a pair of U bends to fit around ear lobe. Will support pendant, etc., which may be changed. Ear lobe is clasped by merely pressing ends together. (Owner) Carl Christy. Address all correspondence to A. F. Flournoy, 207 First National Bank Building, Shreveport, La. Groups 34—51—54; 39—71; 40. Reg. No. 640.

Des. Pat. 137,045. DESIGN FOR A TOWEL HOLDER OR SIMILAR ARTICLE. Patented Jan. 18, 1944. Holds towel in a clamped suspended position. (Owner) Edward W. Duffy, 72 Sanford St., Dorchester, Mass. Groups 32—39; 33—73; 39—81; 40. Reg. No. 641.



Pat. 2,335,741. TAP FOR CUTTING INTERNAL SCREW THREADS. Patented Nov. 30, 1943. Has a central longitudinally extending opening, preferably of polygonal cross-section with corners disposed adjacent cutting segments. Should tap break off in work, it may be easily backed out by inserting any suitable tool in opening of tap. (Owner) Pasquale Contaldi, 646 Clymer Lane, Ridley Park, Pa. Groups 33—52—73; 35—41—43. Reg. No. 642.

Pat. 2,249,731. RURAL MAILBOX DOOR LATCH. Patented July 22, 1941. Resilient jaws adapted to frictionally engage a keeper on bar extending between side walls of box. The box is provided with specially constructed handle, and substantially water-tight door. (Owner) James E. Gilstrap, 205 Duff St., Macon, Mo. Groups 33—12—31—59; 40. Reg. No. 643.

Pat. 2,154,191. HYDRO-SAFETY CRAFT. Patented Apr. 11, 1939. Boat is practically noiseless in operation and can be navigated thru shallow water without liability of damage to craft. Two rotary pontoons (mounted on skids) having external spiral or screw blades extending substantially throughout their length are rotated to propel craft by manually operated driving mechanism which will not stop on dead center, comprising an arrangement of shafts, pulleys, belts, and flywheel. Foot treadle extends across substantially entire width of boat with its ends pivotally connected to vertical rods forming part of a pivoted swinging handle bar. Rudders fore and aft will yield should they strike an obstruction and skids will contact ground in shallow water. (Owner) Alonzo P. Welsh, P. O. Box 205, Oakland 4, Calif. Groups 27—31; 39—49. Reg. No. 644.

Pat. 2,336,905. VEHICLE DIRECTION SIGNAL. Patented Dec. 14, 1943. Combined manual and automatic signalling device for disposition on top of a vehicle whereby the driver may flash a signal, visible from front, sides, and rear, to indicate direction of travel when approaching an intersection. Casing has transparent portions on all sides with suitable indicia. Signal is automatically cut off when turn is completed. Can be installed on new or used cars. (Owner) Alonzo P. Welsh, P. O. Box 205, Oakland 4, Calif. Groups 34—81; 36—62; 38—31. Reg. No. 645.

Pat. 2,136,354. FOLDABLE STOOL. Patented Nov. 8, 1938. Stool of step ladder formation adapted to accommodate a person in sitting position to facilitate cleaning and polishing shoes. Drawer is positioned directly under top and detachable foot rest may be secured to one of the rungs by substantially tongue and groove arrangement. Foot rest is normally carried by cross brace. Entire device including top and drawer folds into compact elongated form. (Owner) Alonzo P. Welsh, P. O. Box 205, Oakland 4, Calif. Group 25—11—41—99. Reg. No. 646.

Pat. 2,317,693. WASTE VAULT. Patented Apr. 27, 1943. Garbage is placed into normally sealed bowl built in conventional sink structure and dropped through a hollow standard into sealed container in cellar without releasing odors in kitchen. Major portion of fluid is separated from garbage by inclined chute with screen on way down and discharged into sewer, the remaining portion continuing to drain into sewer from hole in bottom of container. Knob above sink is provided for opening and closing lid on container and dial indicates whether full or empty. Hinged sides of container provide access for subsequent disposal. (Owner) Stuart Nyboer, Webster, N. Y. Groups 24—31; 32—71; 33—81; 34—95. Reg. No. 647.

Pat. 2,311,858. GAS DISCHARGING SEWER TRAP. Patented Feb. 23, 1943. Bowl shaped device positioned in floors of garage, in addition to functioning as sewer drain, is also adapted to discharge carbon monoxide gas from garage to outside atmosphere. Water entering bowl is deflected into annular channel and discharged into sewer, while gas settles in a flared opening in bottom of bowl and escapes through a vent pipe extended through roof of garage. (Owner) Stuart Nyboer, Webster, N. Y. Groups 32—71; 33—61—73; 34—95. Reg. No. 648.

Pat. 2,269,896. SLOTTED MAP TEMPLET. Patented Jan. 13, 1942. (Granted under the act of March 3, 1883, as amended April 30, 1928; 379 O. G. 757.) Provides antifriction grommets in the slots of interconnectible slotted templets used in assembling aerial photographs in making maps. The improvement results in more accurate layouts, better coordinated extension, and contraction of an assembly of interconnected templets, and permits use of cheaper templet materials. (Owner) Albert J. Kramer, 3919 Fourth St., North, Arlington, Va. Groups 26—27—91; 27—89—93. Reg. No. 649.

Pat. 2,365,183. FURNACE. Patented Dec. 19, 1944. Vertically movable platform and mechanism for use in furnaces for supporting metal objects, especially tubing, whereby a portion is water-cooled and maintained at controlled reduced temperature, while exposing and subjecting a portion of the same object to full furnace temperature. (Owner) Edgar E. Forsberg, 6346 S. Le Claire Ave., Chicago 38, Ill. Group 33—12—93. Reg. No. 650.

Pat. 2,180,861. NECKTIE DEVICE. Patented Nov. 21, 1939. Detachable preformed knot element for use with short necktie element which does not encircle collar. A hook or socket is provided for suspending tie element from button. A split knot, preferably of light metal, having wings is covered with suitable fabric. (Owner) Osceola Casidy, 438 No. Roosevelt Ave., Wichita, Kans. Groups 33—X1; 39—99; 40. Reg. No. 651.

Pat. 2,350,063. DRIVEWAY SWITCH. Patented May 30, 1944. Mechanism for automatically switching a light on and off as vehicle passes over predetermined points in driveway. A pair of piston-like buttons are positioned longitudinally in one side of driveway and spaced apart a sufficient distance to permit a car to park between them. Vehicle may approach from either direction, pass over and depress one button twice to switch on light, while other button is depressed twice as vehicle leaves to turn off light. Driveway may be semi-circular. (Co-owner) Benjamin M. Overby, Lakeland, Ga. Groups 34—81; 36—41; 38—31. Reg. No. 652.

Pat. 2,269,814. MEASURING INSTRUMENT. Patented Jan. 13, 1942. A measuring attachment provided for a bevel protractor that makes it possible to employ the sine bar principle in measuring the angle of the scale to the work surface. (Owner) John G. Gibson. Address correspondence to C. G. Stratton, 433 South Spring St., Los Angeles 13, Calif. Groups 35—65; 39—11. Reg. No. 653.

Pat. 2,097,805. PORTABLE SIGN. Patented Nov. 2, 1937. Sign for blind persons bearing a safety legend on one side, together with a handle on the sign that has an abutment at one end only of the handle, whereby a blind person can feel the abutment and turn the appropriate side outward. Reflective material may be incorporated in sign to indicate presence of person at night. (Owner) William H. Walsh. Address correspondence to C. G. Stratton, 433 South Spring St., Los Angeles 13, Calif. Groups 25—99; 39—93; 40. Reg. No. 654.

Pat. 2,312,585. ARTIFICIAL BAIT CASTING LURE. Patented Mar. 2, 1943. Artificial fish lure having hinged members incorporated therein whereby a fluttering motion that simulates the movement of a live bug or crippled minnow will be imparted to the lure by exerting slight jerks on the casting line. (Owner) Salvatore Piro, Jr., Mangham, La. Groups 39—49; 40. Reg. No. 655.

Pat. 2,264,406. RESET SLIDE RULE. Patented Dec. 2, 1941. A slide rule suitable for molding out of plastic comprising two discs rotating within a housing having a window and cross hair near the top edge. In operation the circular scales are brought to the cross hair eliminating the hunting for the correct setting around the circumference. A reset mechanism operating similarly to that in a stop watch permits instantaneous adjustment of one of the scales to zero reading at the cross hair, resulting in rapid solution of continuous fractions such as found in most engineering formulae. (Owner) Edward A. Ravenscroft, 544 Park Ave., Glencoe, Ill. Groups 33—52; 34—99; 35—65; 39—11. Reg. No. 656.

Pat. 2,363,322. FASTENER. Patented Nov. 21, 1944. Clasp, preferably of resilient plastic material, which functions as a garter when suspended from any suitable means such as tapes, for clamping and supporting silk stockings or the like therebetween without undue stretching or liability of damage to such fabric. Comprises two thin flexible plates, one plate being curved with oblong slot therein fitting over a correspondingly shaped raised shouldered portion of a shorter plate. Opposite ends of longer plate may terminate with shouldered projections to receive ends of other plate to provide additional holding means. Clamping action is accomplished by flexing plates. Device may also serve for ornamental purposes. (Owner) Frank Headon, 117—14 Union Turnpike, Kew Gardens 15, New York, N. Y. Groups 23—84; 28—83; 39—99; 40. Reg. No. 657.

Pat. 2,298,148. DIRECTION SIGNAL. Patented Oct. 6, 1942. Device whereby driver of vehicle approaching an intersection may flash a light to indicate either a right or left-hand turn. Control switch energizes magnets so that an opaque disk carrying a transparent arrow and needle is rotated either clockwise or counterclockwise in a housing containing lights mounted in separate compartments. Device ordinarily indicates movement of the vehicle straight ahead. (Owner) Wallace E. Moessner, Apt. 608 Northbrook Courts, 3426 16th St., N. W., Washington 10, D. C. Groups 38—31; 39—93. Reg. No. 658.

Pat. 2,163,139. CARBURETOR. Patented June 20, 1939. Carburetor, designed for high speed engines, has primary and secondary Venturi tubes adapted to progressively increase amount of air brought into contact with fuel. Fuel is initially atomized as it passes through primary into secondary venturi which is larger. Journaled secondary venturi is rotated at high velocity by helical vanes and ducts associated therewith, the ducts with nozzles extending therefrom being adapted to entrap and collect improperly atomized particles which are thoroughly atomized and directed back into the charge. Fuel pump is provided to effect a saving of fuel particularly at high speeds. (Owner) Joseph I. Brandon. Address correspondence to C. G. Stratton, 433 South Spring St., Los Angeles 13, Calif. Groups 37—22; 38—31. Reg. No. 659.

Pat. 1,991,594. FLUID-TIGHT JOINT FOR PNEUMATIC TIRES. Patented Feb. 19, 1935. Pneumatic tire requiring no inner tube, has but a single separable annular joint sealed after mounting. Sealing is not affected by internal air pressure or temperature. Utilizes conventional casing the opening between the beading being bridged by two stiff substantially non-elastic members with the joint at meeting points. Instead of the usual rim upon which tire is mounted a split rim is provided, sealing of the joint being effected when rim sections are bolted together. (Owner) Egerton R. Case, 82 Balsam Ave., Toronto 8, Ontario, Canada. Groups 30—11; 38—31. Reg. No. 660.

Pat. 2,166,469. BATHTUB. Patented July 18, 1939. Reg. No. 661.

Des. Pat. 109,713. DESIGN FOR A BATHTUB. Patented May 17, 1938. Reg. No. 662.

Mechanical patent, No. 2,166,469, covers structural details while design patent, No. 109,713, covers appearance. Bathtub with shower built directly into tub whereby shower may be taken while in sitting position without wetting the head. Inside of the tub is curved to provide two seats for use at different stages of bathing. Perforated pipe fits into groove which encircles front and sides of tub near top. Overhanging rim of tub directs spray downwardly. (Owner) Julia L. Houston. Address correspondence to C. G. Stratton, 433 South Spring St., Los Angeles 13, Calif. Groups 32—61; 33—61.

**Notice**

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# TRADE-MARKS

## OFFICIAL GAZETTE, DECEMBER 4, 1945

[VOL. 581. No. 1]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 482,660. STORA KOPPARBERGS BERGSLAGS AKTIEBOLAG, Falun, Sweden. Filed Apr. 26, 1945.

STORA 32

Applicant is the owner of Regs. Nos. 217,115 and 220,553. Applicant claims the right to exclusive use of the notation "Qual 32" only in connection with the mark shown.

FOR CHEMICAL WOOD PULP.

Claims use since Nov. 8, 1944.

## CLASS 2

### RECEPTACLES

Ser. No. 487,317. FLORENCE DISTRIBUTING CO., Chicago, Ill. Filed Aug. 20, 1945.

PROTECTO-CRATE

No claim is made to the word "crate" apart from the mark.

FOR EGG SHIPPING CRATES.

Claims use since May 15, 1945.

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 478,634. THE H. D. LEE COMPANY, INCORPORATED, Kansas City, Mo. Filed Jan. 15, 1945.

SAN-I-CIDE

FOR CLEANSER AND DETERGENT HAVING INCIDENTAL DISINFECTANT PROPERTIES USED FOR CLEANING BAR GLASSWARE AND DISHES AND DEODORIZING THE SAME.

Claims use since Oct. 27, 1942.

Ser. No. 479,787. FRANKLIN E. EVERSON, doing business as F. E. Everson, New York, N. Y. Filed Feb. 14, 1945.

Add a little Ad

The words "Add a little" are disclaimed apart from the mark.

FOR DETERGENT PREPARATION USED AS AN AID TO SOAP AND AS A WATER SOFTENER.

Claims use since Jan. 8, 1943.

Ser. No. 485,756. CHARLES OF THE RITZ, INC., New York, N. Y. Filed July 13, 1945.

Charles of the Ritz

"Ritz" is disclaimed apart from the mark shown.

FOR TOILET SOAPS.

Claims use since May 1943.

Ser. No. 486,586. NORTON COMPANY, Worcester, Mass. Filed Aug. 1, 1945. Under 10-year proviso as to "Norton."

NORTON ABRASIVES

No claim is made to the word "Abrasives" apart from the other features of the mark.

FOR OILSTONES, ABRASIVE STONES, CLEANING STONES, SHARPENING STONES, HONES, WHETSTONES, TOOL AND KNIFE SHARPENERS, SCYTHE STONES, BENCH STONES, AXE STONES, POCKET STONES, BREAKER POINT STONES, ABRASIVE ENGRAVING POINTS, PENCILS, AND STONES, RAZOR STROPS, RAZOR STROP DRESSINGS, ABRADING, LAPPING AND POLISHING GRAINS AND POWDERS, OILSTONE WHEELS, GRINDING WHEELS, AND ABRADING, LAPPING, AND POLISHING STONES AND WHEELS.

Claims use since Oct. 1, 1935; and on the name "Norton", since August 1885.

## CLASS 5

### ADHESIVES

Ser. No. 477,761. THOMAS W. DUNN CO. INC., New York, N. Y. Filed Dec. 20, 1944.

DUNNFLEX

FOR FLEXIBLE GLUES, GLUE AND GELATINE COATING COMPOUNDS AND COMPOUNDED GLUE AND GELATINE ADHESIVES.
Claims use since Jan. 1, 1937.

## CLASS 6

### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 451,774. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 20, 1942.

VITAMNAL

FOR VITAMIN TONIC FOR TREATMENT OF ANEMIA.
Claims use since March 1937.

Ser. No. 463,200. IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, Slough, England. Filed Sept. 3, 1943.

AVLON

FOR CHEMICAL SUBSTANCES FOR USE AS ANTISEPTICS, BACTERICIDES, ANTIMALARIALS, ANTHELMINTICS, TRYPANOCIDES, ANAESTHETICS, ANTIEPILEPTICS, GENERAL ANAESTHETICS AND CLEANSING AGENTS FOR WOUNDS, ANALGESIC, PARASITICIDES, DISINFECTANTS, CIRCULATORY STIMULANTS AND RESTORATIVES.
Claims use since Jan. 31, 1942.

Ser. No. 469,876. OXY-FERROLENE LIMITED, Leicester, England. Filed May 2, 1944.

FERROGAS

FOR GASEOUS FUELS COMPRISING COAL GAS, METHANE, WATER GAS, COKE OVEN GAS AND PRODUCER GAS AND LIQUIDS FOR GENERATING GAS OR VAPOUR FOR USE AS FUEL COMPRISING DIETHYL ETHER, METHOL ALCOHOL, AMYL ALCOHOL, BUTYL ALCOHOL, AND PROPYL ALCOHOL.
Claims use since July 29, 1939.

Ser. No. 470,683. SEYDEL CHEMICAL COMPANY, Jersey City, N. J. Filed May 26, 1944.

BENATONE

FOR COMPOUND OF BENZOATE SALT FOR INTERNAL USE.
Claims use since January 1937.

Ser. No. 472,640. R. M. HOLLINGSHEAD CORPORATION, Camden, N. J. Filed July 26, 1944.

Whiz

FOR INSECT SPRAY.
Claims use since Apr. 6, 1944.

Ser. No. 473,166. WILLIAM R. WARNER & CO., INC. Wilmington, Del., and New York, N. Y. Filed Aug. 10, 1944.

Alkresol

FOR ANTISEPTIC AND DISINFECTANT.
Claims use since Apr. 29, 1933.

Ser. No. 475,149. EXOLA PRODUCTS CO., Los Angeles, Calif. Filed Oct. 10, 1944.

OCTA-GĀNE

FOR COMPOUND CONTAINING A LIQUID METAL WHICH WHEN ADDED TO GASOLINE, INCREASES THE TIME OF COMBUSTION IN THE COMBUSTION CHAMBER AND ALSO INCREASES THE OCTANE RATING.
Claims use since June 1944.

Ser. No. 478,395. KOPPERS COMPANY, INC., Kearny, N. J. Filed Jan. 8, 1945.



No claim is made to the words "Naphthalene" or "Moth" apart from the mark as shown.
FOR INSECTICIDES AND NAPHTHALENE.
Claims use since 1942.



Ser. No. 481,617. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Apr. 6, 1945.

COLOR-SPARK

The word "Color" is disclaimed apart from the mark as a whole.
FOR INORGANIC ALKALINE COMPOSITION FOR USE IN THE BREAK IN THE LAUNDRY INDUSTRY.
Claims use since Dec. 15, 1941.

Ser. No. 483,494. SOCIETE D'ETUDES ET D'EXPANSION DE LA PARFUMERIE DE LUXE, Paris and Asnieres, near Paris, France. Filed May 17, 1945.

CATTLEYA

FOR PERFUMES.
Claims use since July 25, 1942.

Ser. No. 484,305. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed June 8, 1945. Under section 5b of the act of 1905 as amended in 1920.

Reuter

FOR PERFUME; TOILET WATER; TALCUM POWDER; FACE POWDER; DUSTING POWDER; SACHET POWDER; AND TOILET CREAMS.
Claims use since Aug. 11, 1920.

Ser. No. 484,693. M. V. C. LABORATORIES, INC., Toledo, Ohio. Filed June 18, 1945.

JIFFY-DRY

No claim is made to the word "Dry" apart from the mark as shown.
FOR NAIL POLISH DRIER.
Claims use since Mar. 22, 1945.

Ser. No. 484,971. PARAMOUNT COSMETICS, INC., New York, N. Y. Filed June 23, 1945.

*Enamelia*

FOR LIQUID MAKE-UP BASE.
Claims use since 1930.

Ser. No. 484,972. PARAMOUNT COSMETICS, INC., New York, N. Y. Filed June 23, 1945.

*"9 til 6"*

FOR PERFUMES AND TOILET WATER.
Claims use since 1940.

Ser. No. 485,163. L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945.

BENOL

FOR U. S. P. MINERAL WHITE MINERAL OIL.
Claims use since Oct. 1, 1933.

Ser. No. 485,166. L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945.

ERVOL

FOR U. S. P. MINERAL WHITE MINERAL OIL.
Claims use since Mar. 1, 1933.

Ser. No. 485,169. L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945.

ORZOL

FOR U. S. P. MINERAL WHITE MINERAL OIL.
Claims use since Nov. 1, 1932.

Ser. No. 485,170. L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945.

PROTOL

FOR U. S. P. LIGHT MEDICINAL WHITE MINERAL OIL.
Claims use since Mar. 1, 1945.

Ser. No. 485,171. L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945.

RUDOL

FOR U. S. P. MINERAL WHITE MINERAL OIL.
Claims use since June 15, 1933.

Ser. No. 485,458. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 4, 1945.

SONAQUOL

FOR WATER MISCIBLE MINERAL MEDICINAL WHITE OIL.
Claims use since Dec. 10, 1938.

Ser. No. 485,587. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 9, 1945.

BENYLIN

FOR INHALANT.
Claims use since June 25, 1945.

Ser. No. 485,589. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 9, 1945.

THEOPHETAL

FOR COMBINATION OF THEOPHYLLIN, PHENOBARBITAL, AND MANNITOL FOR THE TREATMENT OF HYPERTENSION.
Claims use since June 11, 1945.

Ser. No. 485,833. PINAUD INCORPORATED, New York, N. Y. Filed July 16, 1945.

MOSKOVA

FOR EAU DE COLOGNE.
Claims use since June 27, 1945.

Ser. No. 486,416. LA MOTTE CHEMICAL PRODUCTS COMPANY, Towson, Md. Filed July 28, 1945.

TIRON

FOR CHEMICAL REAGENT FOR DISCOVERING THE PRESENCE OF TITANIUM OR IRON.
Claims use since March 1944.

Ser. No. 486,900. JEURELLE, INC., New York, N. Y. Filed Aug. 8, 1945.

GAY LOTHARIO

FOR COLOGNE.
Claims use since Mar. 2, 1945.

Ser. No. 486,901. JEURELLE, INC., New York, N. Y. Filed Aug. 8, 1945.

SARABAND

FOR PERFUME.
Claims use since Mar. 2, 1945.

Ser. No. 486,902. JEURELLE, INC., New York, N. Y. Filed Aug. 8, 1945.

SKINTHETIC

FOR LEG MAKE-UP.
Claims use since June 20, 1942.

Ser. No. 487,216. PAUL V. SEMENOFF, doing business as Multanol Laboratories, New York, N. Y. Filed Aug. 17, 1945.

Multanol

FOR FACE CREAM.
Claims use since May 18, 1944.

Ser. No. 487,273. NEDLYN, INC., St. Louis, Mo. Filed Aug. 18, 1945.

NEDLYN

FOR NAIL POLISH REMOVER AND CONDITIONER.
Claims use since July 26, 1945.

Ser. No. 487,430. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Aug. 22, 1945.

NORBELL

FOR PREPARATION FOR THE CARE OF THE HAIR.
Claims use since Jan. 11, 1945.



Ser. No. 488,127. EDWIN F. SCHULTE, doing business as Etsol Synthetic Products, Detroit, Mich. Filed Sept. 7, 1945.

ATOMIC BUBBLES

The word "Bubbles" is disclaimed apart from the mark as shown.
FOR BUBBLE PRODUCING COMPOUND.
Claims use since Aug. 14, 1945.

Ser. No. 488,181. ABBOTT LABORATORIES, North Chicago, Ill. Filed Sept. 10, 1945.

CECON

FOR VITAMIN PREPARATION CONTAINING VITAMIN C.
Claims use since Aug. 21, 1945.

## CLASS 8

### SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 486,984. CLEEVELANDT CORPORATION, New York, N. Y. Filed Aug. 10, 1945.

TRULY YOURS

FOR CIGARETTE CASES.
Claims use since 1939.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 475,686. DRI-STEAM PRODUCTS, INC., New York, N. Y. Filed Oct. 25, 1944.

DRISPROD

FOR SEPARATORS FOR REMOVING LIQUID AND SOLID IMPURITIES FROM STEAM, COMPRESSED AIR, AND INDUSTRIAL GASES; STRAINERS FOR REMOVING GRIT AND OTHER SOLID IMPURITIES FROM WATER, OIL, AND OTHER LIQUIDS.
Claims use since Oct. 4, 1944.

Ser. No. 480,972. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Long Island City, N. Y. Filed Mar. 16, 1945.

HELI-COIL

The word "Coil" is disclaimed apart from the association shown.
FOR SCREW CONNECTIONS AND PARTS OF SCREW CONNECTIONS—NAMELY, SCREWS, BOLTS, STUDS, NUTS, THREAD INSERTS AND THREAD BUSHINGS, FOR USE IN DRILLED OR THREADED HOLES.
Claims use since Nov. 20, 1942.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 484,953. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed June 23, 1945.

NI-TENSYLIRON

No claim is made for the word "Tensyliron" apart from the mark as shown.
FOR NICKEL-CONTAINING IRON CASTINGS.
Claims use since May 21, 1945.

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 472,942. CRESCENT BRONZE POWDER CO., Chicago, Ill. Filed Aug. 4, 1944.

SYNCHROME

FOR MIXED ALUMINUM PAINT.
Claims use since May 1938.

## CLASS 19

### VEHICLES

Ser. No. 484,650. VIRGINIA-LINCOLN CORPORATION, Marion, Va. Filed June 16, 1945.

VIRGINIA-LINCOLN CORP.
MARION, VIRGINIA
Valin

The words "Virginia-Lincoln Corp., Marion, Virginia," are disclaimed apart from the mark shown in the drawing and without waiving any common law rights thereto.
FOR AIRCRAFT STRUCTURAL PARTS COMPRISED OF THERMOPLASTIC OR THERMOSETTING MATERIAL AND ORGANIC CLOTH SOMETIMES COMBINED WITH CELLULAR ORGANIC MATERIAL AS RIBS, FUSELAGES, NOSES, NOSE RING COWLS, BULKHEADS, LUGS, LONGERONS, FUEL TANKS, ANTENNA ENCLOSURES, VANED SCREENS, NACELLES, AND TOWING TARGETS.
Claims use since May 10, 1945.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 475,664. REALTY AND INDUSTRIAL CORPORATION, Convent, N. J. Filed Oct. 24, 1944.

ROLLER SMITH

No claim is made to the name "Smith" except in the association shown.
FOR CIRCUIT BREAKERS, RELAYS, SWITCHES, SWITCHGEAR, AND PARTS THEREOF.
Claims use since the spring of 1909.

---

Ser. No. 478,496. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo. Filed Jan. 11, 1945.




The word "Tanks" is disclaimed except as used in conjunction with the other features of the mark.
FOR ELECTRIC SWITCH CABINETS; ELECTRIC KNOCKOUT BOXES; AND TRANSFORMER CABINETS.
Claims use since Jan. 1, 1927, on electric switch cabinets and electric knock-out boxes; and since Dec. 15, 1935, on transformer cabinets.

---

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 481,227. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Mar. 23, 1945.

NURSERY RHYMES

FOR DOLLS.
Claims use since November 1944.

Ser. No. 481,229. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Mar. 23, 1945.

TOYLAND

FOR DOLLS.
Claims use since January 1944.

---

Ser. No. 482,912. ZONDINE GAME CO., Los Angeles, Calif. Filed May 2, 1945.

wa-hoo!

The lining shown on the drawing is used for shading purposes only.
FOR GAMES OF THE TYPE HAVING GAME BOARDS AND MARBLES, AND OTHER GAME MEMBERS.
Claims use since December 1942.

---

Ser. No. 487,705. E. WESTON FARMER, Minneapolis, Minn. Filed Aug. 29, 1945.

MineX

FOR TOY CONSTRUCTION SETS.
Claims use since Aug. 28, 1945.

---

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 487,130. GENERAL ANILINE & FILM CORPORATION, New York, N. Y. Filed Aug. 14, 1945.

OZACHROME

FOR LIGHT SENSITIVE DIAZOTYPE PAPERS, CLOTHS, FILMS AND LIGHT SENSITIVE COPYING AND PHOTOGRAPHIC PAPERS.
Claims use since May 12, 1945.

---

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 484,049. MAX FINE & SONS, INC., New York, N. Y. Filed June 1, 1945.

Magna-Cut

The designation "Cut" is disclaimed apart from the mark as shown.
FOR JEWELRY—NAMELY, DIAMONDS, RINGS, BRACELETS, BROOCHES, CLIPS, NECKLACES, AND EARRINGS.
Claims use since May 5, 1945.



## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 487,654. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Aug. 27, 1945.

WIZARD

FOR REFRIGERATORS.
Claims use since May 21, 1937.

---

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 485,911. NEWELL D. HARTLEY, Devon, Conn. Filed July 17, 1945.

DRESADOOR

The word "Door" is disclaimed apart from the mark.
FOR CLOTHES CABINETS FOR FASTENING TO DOORS.
Claims use since Sept. 22, 1944.

---

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 485,390. AERO-LITER MANUFACTURING COMPANY, Wichita, Kans. Filed July 3, 1945.

AeroLite

No claim is made to the word "Lite" except in the association and relation shown.
FOR PYROPHORIC CIGARETTE AND CIGAR LIGHTERS.
Claims use since June 15, 1945.

---

Ser. No. 487,111. THE AMERICAN TANK AND FABRICATING COMPANY, Cleveland, Ohio. Filed Aug. 14, 1945.

AMERA-MAG

FOR NON-ELECTRIC INDUSTRIAL CRUCIBLES FOR MELTING, HEATING, REHEATING OR SUPERHEATING MATERIALS SUCH AS METALS, SULPHUR, GLASS, SALTS, ETC.; NON-ELECTRIC INDUSTRIAL KETTLES, POTS, PANS AND VESSELS USED IN HEATING OR MELTING METALS, SULPHUR, GLASS, SALTS, VARNISH, TAR, ETC.; AND NON-ELECTRIC ANNEALING BOXES, CARBURIZING BOXES, RETORTS, RETORT BOXES, SHELLS AND CASINGS FOR MELTING AND HEAT TREATING FURNACES.
Claims use since June 28, 1944.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 487,969. RODPAK MANUFACTURING COMPANY, San Francisco, Calif. Filed Sept. 4, 1945.

"PACK UP YOUR TROUBLES"

FOR METALLIC PACKING.
Claims use since June 27, 1945.

---

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 474,493. MCCOY, JONES & COMPANY, INC., Chicago, Ill. Filed Sept. 22, 1944.

MILO

FOR CLEANSING TISSUES.
Claims use since Jan. 1, 1931.

---

Ser. No. 484,849. MARK-JEFFREY COMPANY, Hollywood, Calif. Filed June 21, 1945.

TECO

FOR CLEANSING TISSUES.
Claims use since June 1, 1944.

---

Ser. No. 485,330. CROWN ZELLERBACH CORPORATION, also doing business as Crown Willamette Paper Company, San Francisco, Calif. Filed July 2, 1945.

CROWN

FOR GUMMED TAPE FOR WRAPPING AND PACKAGING PURPOSES.
Claims use since July 1, 1929.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 469,354. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 15, 1944.

CELANESE PLASTICS

The word "Plastics" is disclaimed apart from the mark.
FOR PUBLICATION CONTAINING INFORMATIVE MATTER ISSUED PERIODICALLY.
Claims use since September 1943.

---

Ser. No. 472,482. VOLITANT PUBLISHING COMPANY, New York, N. Y. Filed July 21, 1944.

Giggles

FOR MAGAZINE.
Claims use since July 1, 1943.

---

Ser. No. 476,848. NATIONAL ENGINEERING COMPANY, Chicago, Ill. Filed Nov. 24, 1944.

Mulling It Over
in the
Foundry Industry

No rights are claimed for the words "Foundry Industry" apart from the mark shown.
FOR NEWS PUBLICATION FOR THE FOUNDRY INDUSTRY, ISSUED MONTHLY.
Claims use since Oct. 1, 1944.

---

Ser. No. 479,477. HENRY PUBLISHING CO., New York, N. Y. Filed Feb. 6, 1945.

AIRWAYS

FOR MONTHLY BULLETIN AND GUIDE.
Claims use since Dec. 28, 1944.

Ser. No. 482,214. OSCAR MOORE NICHOLS, Waltham, Mass. Filed Apr. 16, 1945.

PRE-DIX-IT

PROPHECY NEWS LETTER

The words "Prophecy News Letter" are disclaimed apart from the mark.
FOR MONTHLY PERIODICAL COVERING A WIDE RANGE OF TIMELY TOPICS AMONG ITS SUBJECT MATTER, UNDER THE MAIN THEME OF PROPHECY, RANGING FROM NUMEROLOGY TO ECONOMIC QUESTIONS, WITH THE BIBLE AS ITS CHIEF BASIS.
Claims use since Apr. 11, 1945.

---

Ser. No. 485,262. THE BILLBOARD PUBLISHING COMPANY, Cincinnati, Ohio. Filed June 30, 1945.

The HONOR ROLL OF HITS

Applicant disclaims the word "Hits" apart from the mark as shown.
FOR WEEKLY POSTER.
Claims use since Mar. 10, 1945.

---

Ser. No. 485,770. D. H. GRANDIN MILLING COMPANY, Jamestown, N. Y. Filed July 13, 1945.



The drawing is lined to indicate red color.
FOR PERIODICAL PUBLICATIONS PERTAINING TO FARM AND HOME SUBJECTS.
Claims use since October 1944.

---

Ser. No. 485,965. REPRODUCTA, INC., New York, N. Y. Filed July 18, 1945.

Fleurettes

FOR GREETING CARDS.
Claims use since Jan. 3, 1945.



## CLASS 39

### CLOTHING

Ser. No. 472,867. KNOTHE BROTHERS CO. INC., New York, N. Y. Filed Aug. 2, 1944.

Old Hundred

FOR MEN'S, WOMEN'S, AND BOYS' PAJAMAS AND ROBES.
Claims use since Dec. 10, 1937, on pajamas; and since Mar. 13, 1940, on robes.

---

Ser. No. 481,234. MADALYN MILLER, Los Angeles, Calif. Filed Mar. 23, 1945.

"Global Fashions"

The word "Fashions" is specifically disclaimed apart from the mark.
FOR WOMEN'S, MISSES', AND GIRLS' DRESSES AND SPORTWEAR, SPECIFICALLY, DRESSES, JUMPERS, PINAFORES, SKIRTS, BLOUSES, BOLEROS, JACKETS, JERKINS, EVENING DRESSES AND WRAPS.
Claims use since Jan. 1, 1945.

---

Ser. No. 484,711. SEL-MOR GARMENT COMPANY, INC., St. Louis, Mo. Filed June 18, 1945.

TeenElaine

The syllable "Teen" is disclaimed, apart from the mark.
FOR LINGERIE, SPECIFICALLY WOMEN'S AND GIRLS' PAJAMAS, NIGHT GOWNS, SLIPS, PANTIES, AND HOUSECOATS.
Claims use since Apr. 16, 1945.

---

Ser. No. 486,122. SEEGULL MANUFACTURING COMPANY, Philadelphia, Pa. Filed July 21, 1945.




The picture of the man appearing on the drawing is fanciful. The applicant disclaims the representation of underwear appearing upon the drawing alone and apart from the mark.
FOR MEN'S UNDERWEAR.
Claims use since at least as early as June 1935.

Ser. No. 486,264. THE LO-BEL CO., New York, N. Y. Filed July 25, 1945.

"Sleigh-Bell"

FOR CHILDREN'S SNOW SUITS.
Claims use since Mar. 15, 1945.

---

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 477,058. BRADFORD DYEING ASSOCIATION (U. S. A.), Bradford, R. I. Filed Nov. 30, 1944.




FOR PIECE GOODS MADE OF COTTON, RAYON, AND NYLON, AND MIXTURES THEREOF.
Claims use since Oct. 17, 1944.

---

Ser. No. 479,825. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed Feb. 14, 1945.

CARAVAN

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF.
Claims use since Dec. 13, 1939.

---

Ser. No. 483,443. S. T. PALAY TEXTILE CORPORATION, New York, N. Y. Filed May 16, 1945.

ORGANU

FOR PIECE GOODS OF RAYON, COTTON, OR WOOL, OR MIXTURES THEREOF, NOT INCLUDING LACE PIECE GOODS.
Claims use since Mar. 20, 1935.

---

Ser. No. 483,814. HENRY A. DIX & SONS CORPORATION, New York, N. Y. Filed May 26, 1945.

666

FOR PIECE GOODS OF SILK, RAYON, OR WORSTED OR COMBINATIONS THEREOF, IN A POPLIN FABRIC ADAPTED FOR USE IN NURSES' UNIFORMS.
Claims use since Oct. 30, 1902.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 475,674. ZADEK FELDSTEIN CO., INC., New York, N. Y. Filed Oct. 24, 1944.

Snow Baby

No claim is made to the word "Baby" apart from the mark.
FOR TEETHING NECKLACES.
Claims use since March 1942.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 461,918. CHARMS COMPANY, Bloomfield, N. J. Filed July 8, 1943.

BANKERS' BREAD

FOR NUTTED CANDIES.
Claims use since June 1, 1939.

Ser. No. 474,106. BASIC FOODS SALES CORP., New York, N. Y. Filed Sept. 12, 1944.

THE BAKED GOODS' SALESMAN

The words "Baked Goods" are disclaimed apart from the mark as shown.
FOR ICING FOR CAKES AND COOKIES.
Claims use since Aug. 31, 1944.

Ser. No. 474,381. THE NATIONAL AGROL COMPANY, Washington, D. C. Filed Sept. 19, 1944.

VERDURIN

FOR CHEWING GUM.
Claims use since July 28, 1944.

Ser. No. 474,385. ARLENE ROE, doing business as The Snackwich Co., Denver, Colo. Filed Sept. 19, 1944.




FOR PREPARED FOOD PRODUCT—NAMELY, A BAKED CORN MEAL CAKE OR PATTY.
Claims use since Sept. 5, 1944.

Ser. No. 474,628. GORTON-PEW FISHERIES COMPANY, LTD., Gloucester, Mass. Filed Sept. 26, 1944. Under 10-year proviso.

GOLD SEAL

FOR SMOKED BLOATERS, SMOKED HERRING, SALT CODFISH, SALT MACKERAL, AND PREPARED SALT FISH WHETHER BONELESS OR IN BRICK FORM.
Claims use since Sept. 25, 1893.

Ser. No. 479,684. LYONS-MAGNUS, INC., San Francisco, Calif. Filed Feb. 10, 1945.

RICOCO

FOR CHOCOLATE FLAVORING SYRUPS FOR FOOD PRODUCTS.
Claims use since 1925.

Ser. No. 480,804. ST. REGIS RESTAURANT CORPORATION, New Orleans, La. Filed Mar. 10, 1945.

SHRIMP 'n SHORTS

The word "Shrimp" is disclaimed apart from the mark.
FOR SHRIMP, FRIED OR COOKED, AND LUNCHES INCLUDING SHRIMP, POTATOES, AND BREAD.
Claims use since Jan. 8, 1945.



Ser. No. 482,817. UNITED FARMERS DAIRY STORES, INC., Boston and Charlestown, Mass. Filed Apr. 30, 1945.




No claim is made to the words "Party Pak" apart from the mark.
FOR ICE CREAM.
Claims use since Mar. 1, 1945.

Ser. No. 483,174. GENERAL FOODS CORPORATION, New York, N. Y. Filed May 10, 1945.



The representation of the boy as shown in the mark is fanciful.
FOR SALT.
Claims use since Nov. 1, 1922.

Ser. No. 484,699. G. H. PLETCHER, Harlingen, Tex. Filed June 18, 1945.

RED BLUSH

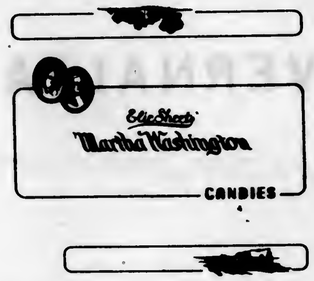
The word "Red" is disclaimed apart from the mark shown.
FOR FRESH GRAPEFRUIT.
Claims use since Nov. 1, 1944.

Ser. No. 486,259. KELLOGG COMPANY, Battle Creek, Mich. Filed July 25, 1945.

Kellogg's

Applicant is the owner of Reg. Nos. 105,213 (renewed); 115,348 (renewed); 147,454 (renewed); and others. The trade-mark is a facsimile of the surname, in the possessive case, of the chairman of the board of directors of applicant corporation, whose full name is Will K. Kellogg, in his handwriting.
FOR CORN GRITS AND CORN MEAL.
Claims use since Mar. 2, 1938, on corn grits; and since Sept. 23, 1944, on corn meal.

Ser. No. 486,399. MARTHA WASHINGTON CANDIES COMPANY, Chicago, Ill. Filed July 27, 1945.




Applicant is the owner of registrations 63,564, 63,565, 63,566, 136,695, 136,696, 138,159, 255,959, 272,681, 288,768, 289,599, 290,136, 290,326, 297,860, 299,831, and 361,861. The name "Ellie Sheetz" and the word "Candies" are disclaimed apart from the mark as shown.
FOR CANDY.
Claims use since June 1892 on Elie Sheetz Martha Washington Candies, the picture of Mount Vernon, and the pictures of Martha and George Washington; since June 7, 1938, on picture of Wakefield; and since Aug. 11, 1940, on mark as shown.

Ser. No. 486,923. ROSE P. SPANDAU, doing business as D'Ger French Dressing Co., Pittsburgh, Pa. Filed Aug. 8, 1945.




FOR SALAD DRESSING, MADE OF VEGETABLE OIL, VINEGAR, SALT, PEPPER, PAPRIKA, AND LEMON JUICE, KNOWN AS FRENCH DRESSING.
Claims use since about May 1, 1945.

Ser. No. 486,999. MIDLAND COOPERATIVE DAIRY ASS'N, Shawano, Wis. Filed Aug. 10, 1945.

R and E

FOR EVAPORATED MILK.
Claims use since July 13, 1945.

Ser. No. 487,162. ASSOCIATED DEHYDRATING CORPORATION, Vernalis, Calif. Filed Aug. 17, 1945. Under the act of February 20, 1905, as amended June 10, 1938.

**VERNALFA**

FOR DEHYDRATED ALFALFA PRODUCTS FOR POULTRY OR STOCK FEED.
Claims use since Apr. 1, 1945.

## CLASS 49
## DISTILLED ALCOHOLIC LIQUORS

Ser. No. 487,114. CHESTER DISTILLERS PRODUCTS CORP., Pittsburgh, Pa. Filed Aug. 14, 1945.

**SUNNY GLEN**

FOR WHISKEY.
Claims use since Jan. 2, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 4, 1945

418,080. FRESH CITRUS FRUITS. PLYMOUTH CITRUS GROWERS ASSOCIATION, Plymouth, Fla.
Filed August 11, 1941. Serial No. 446,143. PUBLISHED MAY 29, 1945. Class 46.

418,081. STEAM AND HOT WATER GENERATORS AND BOILER-BURNER UNITS THEREFOR; SOLID AND LIQUID AND GASEOUS FUEL STOVES, AND FURNACES; SOLID, LIQUID AND GAS FUEL BURNERS FOR STILLS AND DRIERS; AND INDUSTRIAL GAS GENERATORS. GENERAL FURNACES CORPORATION, New York, N. Y.
Filed September 19, 1942. Serial No. 455,624. PUBLISHED MAY 15, 1945. Class 34.

418,082. DENTURE REFITTING OR LINING MATERIAL. ROY MCCLURE PATTERSON doing business under the name of the Ack-Roy-Lyne Laboratories, Detroit, Mich.
Filed October 1 1943. Serial No. 463,820. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,083. HOSE CLAMPS OF THE TYPE USED FOR OIL, GASOLINE, AND COOLANT HOSE CONNECTIONS ON AIRCRAFT. AIRCRAFT STANDARD PARTS COMPANY, Rockford, Ill.
Filed October 29, 1943. Serial No. 464,498. PUBLISHED SEPTEMBER 25, 1945. Class 13.

418,084. CONSTANT PRESSURE PUMP GOVERNORS; EXCESS OR DIFFERENTIAL PUMP GOVERNORS; BOILER GAS FUEL GOVERNORS; PRESSURE REDUCING VALVES, ETC. FISHER GOVERNOR COMPANY, Marshalltown, Iowa.
Filed May 12, 1944. Serial No. 470,178. PUBLISHED SEPTEMBER 18, 1945. Class 13.

418,085. WATER HEATERS, AUTOMATIC AND NON-AUTOMATIC, OPERATED EITHER BY GAS OR ELECTRICITY. GENERAL WATER HEATER CORPORATION, Burbank, Calif.
Filed May 16, 1944. Serial No. 470,303. PUBLISHED SEPTEMBER 25, 1945. Class 34.

418,086. WATER HEATERS, AUTOMATIC AND NON-AUTOMATIC, OPERATED EITHER BY GAS OR ELECTRICITY. GENERAL WATER HEATER CORPORATION, Burbank, Calif.
Filed May 16, 1944. Serial No. 470,304. PUBLISHED SEPTEMBER 25, 1945. Class 34.

418,087. ACRYLIC DENTURE MATERIAL. CARLISLE & SWOPE, doing business as Carlisle and Swope Company, Denver, Colo.
Filed May 22, 1944. Serial No. 470,481. PUBLISHED MARCH 6, 1945. Class 44.

418,088. MEAT PRODUCTS—NAMELY, COOKED FRANKFURTERS AND FRANKFURTER SANDWICHES, RAW HAMBURGERS, COOKED HAMBURGERS, AND HAMBURGER SANDWICHES; BAKERY PRODUCTS—NAMELY, BREADS, DOUGHNUTS, ROLLS, CAKES AND PASTRIES; COFFEE, TEA, CHOCOLATE FOR BEVERAGE PURPOSES AND CANDY. NEDICK'S STORES, INC., New York, N. Y.
Filed June 12, 1944. Serial No. 471,165. PUBLISHED SEPTEMBER 25, 1945. Class 46.

418,089. RICE. LOUISIANA STATE RICE MILLING COMPANY, INC., Abbeville, La.
Filed July 24, 1944. Serial No. 472,570. PUBLISHED SEPTEMBER 25, 1945. Class 46.

418,090. TOOTH BRUSHES. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed August 14, 1944. Serial No. 473,254. PUBLISHED SEPTEMBER 18, 1945. Class 29.

418,091. FINNED TUBING FOR USE AS A HEAT EXCHANGING ELEMENT. CALUMET AND HECLA CONSOLIDATED COPPER COMPANY, Boston, Mass.
Filed September 5, 1944. Serial No. 473,902. PUBLISHED MAY 15, 1945. Class 34.

418,092. PLYWOOD. HARBOR PLYWOOD CORPORATION, Hoquiam, Wash.
Filed September 11, 1944. Serial No. 474,077. PUBLISHED SEPTEMBER 25, 1945. Class 12.

418,093. READY-MIXED PAINTS, PAINT ENAMELS, VARNISH, PAINT PRIMERS, VARNISH REMOVER, LACQUERS, BOTH TRANSPARENT AND PIGMENTED, LACQUER PUTTY FOR FILLING INDENTATIONS AND IMPERFECTIONS, AND LACQUER RUBBING COMPOUND FOR RUBBING THE GLOSS FINISH TO A DULL FINISH. H. BEHLEN & BRO., INC., New York, N. Y.
Filed September 14, 1944. Serial No. 474,190. PUBLISHED JANUARY 23, 1945. Class 16.

418,094. ELECTRIC HEATING PADS, ELECTRIC HAIR DRYERS, ELECTRIC VIBRATORY OUTFITS, ELECTRIC THERAPEUTIC BATTERIES AND VIOLET RAY MACHINES. NATIONAL STAMPING & ELECTRIC WORKS, Chicago, Ill.
Filed September 18, 1944. Serial No. 474,344. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,095. GLASS ARTICLES: SUPPORTS FOR DENTAL TUMBLERS, SHIELDS FOR DENTAL TUMBLERS, DENTAL SPRAY BOTTLES, DENTAL CUSPIDORS, DENTAL TABLE TOPS, AND NURSING BOTTLES. CORNING GLASS WORKS, Corning, N. Y.
Filed September 22, 1944. Serial No. 474,481. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,096. MINERAL PAINTS FREE OF ANY ORGANIC VEHICLE AND USED FOR PAINTING AND PRESERVING STONE, STUCCO, CONCRETE AND OTHER SURFACES. DAVID BIRK, doing business as Birk Paint Company, Jersey City, N. J.
Filed September 23, 1944. Serial No. 474,529. PUBLISHED FEBRUARY 20, 1945. Class 16.

418,097. INDUSTRIAL DRY CLEANING AND INDUSTRIAL LAUNDRY MACHINES. VIC CLEANING MACHINE CO., Minneapolis, Minn.
Filed October 17, 1944. Serial No. 475,407. PUBLISHED AUGUST 28, 1945. Class 24.

418,098. PRODUCT IN LIQUID FORM IN THE NATURE OF VARNISH OR SHELLAC, FOR DRESSING AND SEALING WOODEN FLOORS. THE DIVERSEY CORPORATION, Chicago, Ill.
Filed October 21, 1944. Serial No. 475,557. PUBLISHED SEPTEMBER 18, 1945. Class 16.

418,099. STUFFED TOYS—NAMELY, ANIMALS, DOLLS, PLAY BALLS, AND FOWL. JOLLY TOYS, INC., New York, N. Y.
Filed November 9, 1944. Serial No. 476,292. PUBLISHED JANUARY 30, 1945. Class 22.

418,100. BOXES AND CARTONS BOTH MADE OF CARDBOARD OR PAPER. THE LORD BALTIMORE PRESS, Baltimore, Md.
Filed November 23, 1944. Serial No. 476,808. PUBLISHED SEPTEMBER 25, 1945. Class 2.

418,101. BOLTS, NUTS, RIVETS, SCREWS, TACKS, COTTER PINS, FLAT SPRING KEYS USED IN SLOTTED BOLTS, NAILS, SCREW MACHINE PRODUCTS, ETC. THE NATIONAL SCREW & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 23, 1944. Serial No. 476,815. PUBLISHED SEPTEMBER 18, 1945. Class 13.

418,102. METALS AND ALLOYS—NAMELY, LITHIUM METAL, ALLOYS OF TELLURIUM AND COPPER, AND ALLOYS OF LITHIUM WITH THE FOLLOWING METALS SINGLY OR IN COMBINATION, TO WIT, ALUMINUM, MAGNESIUM, ETC. LITHALOYS CORPORATION, New York, N. Y.
Filed December 8, 1944. Serial No. 477,833. PUBLISHED SEPTEMBER 25, 1945. Class 14.

418,103. AIRPLANES AND STRUCTURAL PARTS THEREOF. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, Louisville, Ky., and St. Louis, Mo.
Filed January 1, 1945. Serial No. 478,112. PUBLISHED SEPTEMBER 11, 1945. Class 19.

418,104. READY-MIXED PAINTS AND LACQUERS. TITANINE, INC., Union, N. J.
Filed January 3, 1945. Serial No. 478,193. PUBLISHED MAY 15, 1945. Class 16.

418,105. RESPIRATORS. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed January 11, 1945. Serial No. 478,498. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,106. TOY BOATS AND TOY AIRPLANES. HARVEY MACHINE CO., INC., Los Angeles, Calif.
Filed January 29, 1945. Serial No. 479,124. PUBLISHED SEPTEMBER 25, 1945. Class 22.

418,107. FURNITURE—NAMELY, BEDS, CHESTS, CHAIRS, END TABLES, MAGAZINE RACKS, DRESSERS, ETC. NATHAN S. ANCELL, New York, N. Y.
Filed February 5, 1945. Serial No. 479,411. PUBLISHED SEPTEMBER 25, 1945. Class 32.

418,108. CLOTHES LINE REELS. MELVIN DAVID JOYCE, Saginaw, Mich.
Filed February 6, 1945. Serial No. 479,482. PUBLISHED SEPTEMBER 25, 1945. Class 24.

418,109. PREPARATION FOR REMOVING VARNISH FROM FLOORS, WHICH PREPARATION ALSO REMOVES WAX. L. SONNEBORN SONS, INC., New York, N. Y.
Filed February 24, 1945. Serial No. 480,201. PUBLISHED SEPTEMBER 25, 1945. Class 16.

418,110. MOTION PICTURE PRODUCTIONS. CARL DUDLEY, doing business as Carl Dudley Productions, Beverly Hills, Calif.
Filed February 27, 1945. Serial No. 480,280. PUBLISHED SEPTEMBER 25, 1945. Class 26.

418,111. READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, LACQUER, PREPARED SHELLAC, ROOF COATINGS IN THE NATURE OF PAINT, ETC. OAKES & CO., also doing business as Tru-Test, Chicago, Ill.
Filed March 7, 1945. Serial No. 480,611. PUBLISHED SEPTEMBER 25, 1945. Class 16.

418,112. CONTAINERS MADE OF PLASTIC AND ADAPTED FOR USE IN CLOSETS AND THE LIKE, PARTICULARLY FOR HOLDING DEODORANTS AND MOTH REPELLENTS. STOR-AID, INC., New York, N. Y.
Filed March 10, 1945. Serial No. 480,808. PUBLISHED SEPTEMBER 25, 1945. Class 2.

418,113. WETTING AND DISPERSING AGENTS TO FACILITATE THE INCORPORATION OF PIGMENTS INTO SUCH VEHICLES AS PAINTS, ENAMELS, LACQUERS AND THE LIKE. NUODEX PRODUCTS CO. INC., Elizabeth, N. J.
Filed March 20, 1945. Serial No. 481,121. PUBLISHED SEPTEMBER 18, 1945. Class 16.

418,114. ADHESIVE CEMENT FOR ATTACHING LABELS WHICH MAY ALSO BE APPLIED OVER THE LABELS AFTER THEY HAVE BEEN ATTACHED TO FORM A TRANSPARENT, WATER AND OIL REPELLENT FINISH. PHELAN-FAUST PAINT MFG. CO., St. Louis, Mo.
Filed March 27, 1945. Serial No. 481,377. PUBLISHED SEPTEMBER 25, 1945. Class 5.

418,115. REFRIGERATING APPARATUS—NAMELY, REFRIGERATOR CABINETS, REFRIGERATING UNITS, COMPLETE REFRIGERATORS AND PARTS THEREOF, AND ACCESSORIES THEREFOR—NAMELY, CRISPERS. MOFFATS LIMITED, Town of Weston, Ontario, Canada.
Filed March 28, 1945. Serial No. 481,419. PUBLISHED SEPTEMBER 25, 1945. Class 31.

418,116. GAME BOARDS. MEVI INCORPORATED, New York, N. Y.
Filed April 13, 1945. Serial No. 482,110. PUBLISHED SEPTEMBER 25, 1945. Class 22.

418,117. POWER OPERATED AVIATION TRAINING APPARATUS, IN WHICH THE TRAINEE SUBJECTS HIMSELF TO MOST OF THE CONDITIONS OF ACTUAL FLIGHT, ETC. AMERICAN AUTOMATIC TYPEWRITER CO., Chicago, Ill.
Filed April 17, 1945. Serial No. 482,233. PUBLISHED SEPTEMBER 25, 1945. Class 26.

418,118. FURNITURE POLISH. HAROLD L. SCHAFER, doing business as Gold Seal Co., Bismarck, N. Dak.
Filed April 20, 1945. Serial No. 482,399. PUBLISHED SEPTEMBER 25, 1945. Class 16.

418,119. DOLLS MADE OF PLASTIC MATERIAL AND TABLE TENNIS BALLS. L. A. GOODMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed April 25, 1945. Serial No. 482,570. PUBLISHED SEPTEMBER 25, 1945. Class 22.

418,120. LIQUID CLEANER FOR VITREOUS WARE HAVING DEODORIZING PROPERTIES. THE SEYBOLD PAPER COMPANY, Cincinnati, Ohio.
Filed April 25, 1945. Serial No. 482,591. PUBLISHED SEPTEMBER 25, 1945. Class 4.

418,121. ADHESIVE MATERIAL IN LIQUID FORM, SAID CEMENT FORMING A HEAT SEALABLE SURFACE WHEN DRY. PACKAGING INDUSTRIES LIMITED, Montclair, N. J.
Filed April 27, 1945. Serial No. 482,697. PUBLISHED SEPTEMBER 25, 1945. Class 5.

418,122. PAINT ENAMELS. SPENCER-ADAMS PAINT COMPANY, trading as Spenada Company, Atlanta, Ga.
Filed May 8, 1945. Serial No. 483,121. PUBLISHED SEPTEMBER 25, 1945. Class 16.

418,123. THERAPEUTIC APPARATUS FOR IMPARTING GYRATORY IMPULSES TO THE HUMAN BODY. NIAGARA UNITS, INC., New York, N. Y.
Filed May 10, 1945. Serial No. 483,198. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,124. ELECTRICAL AND MECHANICAL REFRIGERATORS AND PARTS THEREOF; EVAPORATOR UNITS FOR REFRIGERATING APPARATUS, ETC. GENERAL AIRCRAFT EQUIPMENT, INC., South Norwalk, Conn.
Filed May 18, 1945. Serial No. 483,524. PUBLISHED SEPTEMBER 25, 1945. Class 31.

418,125. SLIDE FASTENERS. SIDNEY S. ROBERTS, Long Island City, N. Y.
Filed May 18, 1945. Serial No. 483,553. PUBLISHED SEPTEMBER 25, 1945. Class 13.

418,126. LIQUID CLEANING, GLAZING AND POLISHING MATERIAL FOR AUTOMOBILES, FURNITURE, HARDWOOD FLOORS AND OTHER FINISHED SURFACES. CLYDE D. CHAPMAN, doing business as Buquseal Company, Spokane, Wash.
Filed May 22, 1945. Serial No. 483,654. PUBLISHED SEPTEMBER 25, 1945. Class 16.



418,127. PAINT BRUSHES. ANTHONY F. WIRTH, Cleveland, Ohio.
Filed May 23, 1945. Serial No. 483,706. PUBLISHED SEPTEMBER 25, 1945. Class 29.

418,128. WAX COMPOSITION USED FOR POLISHING FLOORS, FURNITURE AND THE LIKE. ALFRED AUFHAUSER, doing business as Industrial Raw Materials Company, New York, N. Y.
Filed May 25, 1945. Serial No. 483,756. PUBLISHED SEPTEMBER 18, 1945. Class 16.

418,129. POLISH FOR VARNISHED, PAINTED, LACQUERED, AND ENAMELED SURFACES. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn.
Filed May 25, 1945. Serial No. 483,778. PUBLISHED SEPTEMBER 18, 1945. Class 16.

418,130. STALL COCKS. RITE-WAY PRODUCTS COMPANY, Chicago, Ill.
Filed May 28, 1945. Serial No. 483,875. PUBLISHED SEPTEMBER 25, 1945. Class 18.

418,131. BRUSHLESS SHAVE CREAM AND SHAVE SOAP. GARAY TOILETRIES, INC., New York, N. Y.
Filed May 30, 1945. Serial No. 483,967. PUBLISHED SEPTEMBER 25, 1945. Class 4.

418,132. PYROPHORIC CIGARETTE, CIGAR, AND PIPE LIGHTERS. BOB-LENS ENTERPRISES, Los Angeles, Calif.
Filed June 5, 1945. Serial No. 484,150. PUBLISHED SEPTEMBER 4, 1945. Class 34.

418,133. DOG BISCUITS, CANNED DOG FOOD, AND DOG MEAL. THE KENNEL FOOD SUPPLY COMPANY, Fairfield, Conn.
Filed June 11, 1945. Serial No. 484,410. PUBLISHED SEPTEMBER 25, 1945. Class 46.

418,134. BUMPER AND DRAFT GUARDS FOR THE SIDES OF CRIBS. ROSS-DERBY COMPANY, Newton, Mass.
Filed June 11, 1945. Serial No. 484,426. PUBLISHED SEPTEMBER 25, 1945. Class 32.

418,135. DOLLS. GROVER B. TURNER, Indianapolis, Ind.
Filed June 12, 1945. Serial No. 484,470. PUBLISHED SEPTEMBER 25, 1945. Class 22.

418,136. PADS USED IN PERMANENT HAIR WAVING. M. WAHL & SON, doing business as Wahlson Co., New York, N. Y.
Filed June 12, 1945. Serial No. 484,473. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,137. CANNED CITRUS JUICES. WINCKLER & SMITH CITRUS PRODUCTS COMPANY, Anaheim, Calif.
Filed June 13, 1945. Serial No. 484,518. PUBLISHED SEPTEMBER 25, 1945. Class 46.

418,138. PTOSIS SUPPORTS, SACRO-ILIAC SUPPORTS, ABDOMINAL SUPPORTS, AND POST OPERATIVE SUPPORTS. IRVING KANTOR, doing business as Kantor Surgical Co., New York, N. Y.
Filed June 19, 1945. Serial No. 484,745. PUBLISHED SEPTEMBER 25, 1945. Class 44.

418,139. COMPOSITION FORMED PRINCIPALLY OF GROUND SLAG FOR REPLACING A PORTION OF THE CEMENT NORMALLY USED IN CONCRETES TO IMPROVE THE WORKABILITY, HOMOGENEITY, AND RESISTANCE OF THE CONCRETE TO THE DISINTEGRATING EFFECTS OF FREEZING AND THAWING. THE WAIT ASSOCIATES, INC., New York, N. Y.
Filed June 21, 1945. Serial No. 484,865. PUBLISHED SEPTEMBER 11, 1945. Class 12.

418,140. HANDBAGS. BOSTONIAN MANUFACTURING COMPANY, New York, N. Y.
Filed June 23, 1945. Serial No. 484,932. PUBLISHED SEPTEMBER 25, 1945. Class 3.

418,141. FRESH VEGETABLES. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif.
Filed June 27, 1945. Serial No. 485,093. PUBLISHED SEPTEMBER 25, 1945. Class 46.

418,142. PAPER CARTONS. MARATHON CORPORATION, Rothschild, Wis.
Filed July 6, 1945. Serial No. 485,509. PUBLISHED SEPTEMBER 25, 1945. Class 2.

418,143. KITCHEN CABINETS. CARR, ADAMS & COLLIER COMPANY, Dubuque, Iowa.
Filed July 12, 1945. Serial No. 485,721. PUBLISHED SEPTEMBER 25, 1945. Class 32.

418,144. ASSEMBLY TOYS EACH CONSISTING OF A NUMBER OF PIECES ADAPTED TO BE ASSEMBLED INTO VARIOUS TOY OBJECTS. LITTLE ELMER TOY COMPANY, Eau Claire, Wis.
Filed July 12, 1945. Serial No. 485,731. PUBLISHED SEPTEMBER 25, 1945. Class 22.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

418,145. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DURGIN-PARK, Boston, Mass. Filed Apr. 8, 1942. Serial No. 452,216.

**DURGIN-PARK**

FOR COFFEE.
Claims use since 1910.

418,146. (CLASS 38. PRINTS AND PUBLICATIONS.) COLUMBIA PUBLICATIONS, INC., New York, N. Y., and Holyoke, Mass. Filed Mar. 17, 1944. Serial No. 468,374.

GAY Love

FOR MAGAZINE PUBLISHED EVERY OTHER MONTH, THE SUBJECT MATTER OF WHICH COMPRISES SHORT STORIES, NOVELETTES AND POEMS.
Claims use since Nov. 1, 1940.

418,147. (CLASS 38. PRINTS AND PUBLICATIONS.) COLUMBIA PUBLICATIONS, INC., New York, N. Y., and Holyoke, Mass. Filed Mar. 17, 1944. Serial No. 468,375.

ideal Love

FOR MAGAZINE PUBLISHED EVERY OTHER MONTH THE SUBJECT MATTER OF WHICH COMPRISES SHORT STORIES, NOVELETTES AND POEMS.
Claims use since Nov. 1, 1940.

418,148. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago Ill. Filed Sept. 24, 1943. Serial No. 463,616.

**SUPER-BRITE**

FOR BOWLING ALLEY CLEANER AND POLISH.
Claims use since Apr. 20, 1942.

418,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AIR TREATMENT CORP. OF AMERICA, New York, N. Y. Filed Feb. 25, 1944. Serial No. 467,741.

BREEZE

FOR DEODORANT FOR ENCLOSED ATMOSPHERES, SUCH AS ROOMS AND THE LIKE.
Claims use since Feb. 11, 1944.

---

418,150. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WALTER LAMPL, New York, N. Y. Filed July 11, 1944. Serial No. 472,114.

Cachette

SMALL CONTAINERS, SOLD EMPTY, MADE OF PRECIOUS AND SEMI-PRECIOUS METALS, ADAPTED FOR USE IN HOLDING PILLS AND THE LIKE.
Claims use since July 1, 1944.

---

418,151. (CLASS 12. CONSTRUCTION MATERIALS.) OWENS-CORNING FIBERGLAS CORPORATION, Toledo, Ohio. Filed July 24, 1944. Serial No. 472,578.

FIBERGLAS

FOR THERMAL AND ACOUSTIC INSULATION—NAMELY, MATS, BATS, BLANKETS, CAKES OF INTERBONDED OR INTERMATTED FIBERS, LOOSE MASSES OF GLASS FIBERS, NODULATED AND SHREDDED MASSES OF GLASS FIBERS, AND INSULATING CEMENT AND FINISHING CEMENT; THERMAL INSULATION—NAMELY, SHAPED RIGID FORMS CONTAINING FIBROUS GLASS FOR INSULATING PIPES AND OTHER CONDUITS, TANK JACKETS, RIGID BLOCKS AND BOARDS FOR HIGH TEMPERATURE, AND LAGGING TAPE; AND OTHER MATERIALS—NAMELY, PIPE WRAPPING IN THE FORM OF SHEETS OR WEBS OF FIBROUS GLASS, FACED AND UNFACED WALL BOARDS OF FIBROUS GLASS, AND STRIPPING TAPE, OF OR CONTAINING FIBROUS GLASS.
Claims use since Jan. 17, 1936.

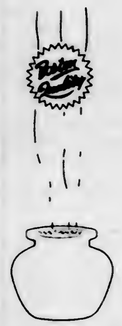
---

418,152. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) OWENS-CORNING FIBERGLAS CORPORATION, Toledo, Ohio. Filed July 24, 1944. Serial No. 472,581.

FIBERGLAS

FOR AIR FILTERS, AIR FILTRATION PADS AND MATS, CONTACT AND ELIMINATOR MATS FOR AIR FILTRATION, ALL CONTAINING GLASS FIBERS, AND FRAMES FOR MOUNTING AND SUPPORTING AIR FILTERS.
Claims use since Jan. 17, 1936.

418,153. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. F. MARTIN & COMPANY, Watsonville, Calif. Filed Sept. 1, 1944. Serial No. 473,825.




FOR DRY EDIBLE BEANS.
Claims use since July 31, 1943.

---

418,154. (CLASS 39. CLOTHING.) GOODMAN-SCHEINHORN, New York, N. Y. Filed Sept. 8, 1944. Serial No. 473,984.

Susan Allyn
ORIGINAL

FOR LADIES' DRESSES.
Claims use since Aug. 18, 1944.

---

418,155. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) REDHILL PRODUCTS, Inwood, Long Island, N. Y. Filed Sept. 15, 1944. Serial No. 474,245.




The lining on the drawing is used for shading purposes only.
FOR TOYS I. E., BOXED SETS OF SEWING KITS CONSISTING OF SCREENED FIGURES, YARN, BUTTONS AND INSTRUCTIONS FOR CUTTING, SEWING AND STUFFING A TOY.
Claims use since Aug. 18, 1944.



418,156. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ROBERT I. PRICE, doing business as Fountain Service Company, New York, N. Y. Filed Sept. 19, 1944. Serial No. 474,384.

HI-PEP

FOR A COLA-FLAVORED SYRUP CONCENTRATE.
Claims use since Aug. 9, 1934.

---

418,157. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. ANNIS, Forest Hills, N. Y. Filed Sept. 20, 1944. Serial No. 474,392.

NEO-PIX

FOR OINTMENT FOR TREATMENT OF THE SKIN AND PARTICULARLY FOR THE TREATMENT OF ECZEMA, PRURITIS ANI ET VULVAE, INTERTRIGO, EXANTHEMA, DIAPER RASH, VARICOSE ULCERS, WIND AND SUN BURN INCLUDING MANY FORMS OF PLANT AND INDUSTRIAL DERMATITIS.
Claims use since July 6, 1944.

---

418,158. (CLASS 32. FURNITURE AND UPHOLSTERY.) STAFFIN JOHNS CO., Chicago, Ill. Filed Sept. 21, 1944. Serial No. 474,465.




FOR MATTRESSES.
Claims use since May 2, 1944.

---

418,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK H. FLEER CORPORATION, Philadelphia, Pa. Filed Sept. 28, 1944. Serial No. 474,693.

FLEER'S
CHLOROPHYLL
CHEWING GUM

The lining on the word "Fleer's" indicates shading.
FOR CHEWING GUM CONTAINING CHLOROPHYLL CAROTENOIDS COMPLEX AND BREWER'S YEAST.
Claims use since Sept. 18, 1944.



418,160. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LAMONT WATCH CORPORATION, New York, N. Y. Filed Oct. 3, 1944. Serial No. 474,856.

MERRIMAC

FOR WATCHES.
Claims use since July 21, 1944.

---

418,161. (CLASS 15. OILS AND GREASES.) AMERICAN OIL & SUPPLY COMPANY, Newark, N. J. Filed Nov. 9, 1944. Serial No. 476,272.

Hi-Melt

FOR LIQUID AND SEMI-SOLID ANTI-FRICTION BEARING LUBRICANTS AND GREASES.
Claims use since Sept. 15, 1944.

---

418,162. (CLASS 15. OILS AND GREASES.) AMERICAN OIL & SUPPLY COMPANY, Newark, N. J. Filed Nov. 9, 1944. Serial No. 476,273.

Lafayette

FOR LIQUID AND SEMI-SOLID GEAR LUBRICANTS.
Claims use since Sept. 15, 1944.

---

418,163. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAIRCHILD BROS. AND FOSTER, New York, N. Y. Filed Nov. 16, 1944. Serial No. 476,499.

DRYDGEL

FOR A MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF PEPTIC ULCER AND GASTRIC HYPERACIDITY.
Claims use since Oct. 5, 1944.

---

418,164. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HOWELL COMPANY, INC., New Orleans, La. Filed Nov. 28, 1944. Serial No. 476,969.

ROOM
FRESH

FOR DEODORIZER.
Claims use since September 1944.

418,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS). HONEGGERS' & CO., also doing business as Honegger Feed Mills, Forrest, Ill. Filed Nov. 24, 1944. Serial No. 476,842.




FOR FEED FOR BABY CHICKS.
Claims use since 1936.

418,166. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) ROY W. DE WELLES, Kansas City, Mo. Filed Nov. 24, 1944. Serial No. 476,830.




FOR APPARATUS FOR IRRIGATING THE HUMAN BOWELS.
Claims use since September 1940.

418,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EUGENE BEITSCHER, doing business as Arlene Chocolate Co., Brooklyn, N. Y. Filed Nov. 29, 1944. Serial No. 476,999.




FOR CANDY.
Claims use since May 22, 1944.

418,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KNAPP, SHERRIFF & KOELLE, Donna, Tex. Filed Dec. 9, 1944. Serial No. 477,361.

GOLD SKIN

FOR FRESH CITRUS FRUITS.
Claims use since Sept. 27, 1944.

418,169. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLGER LAWSON, doing business as Lawson Machine Works, Montreal, Quebec, Canada. Filed Dec. 16, 1944. Serial No. 477,656.

LAURENTIAN

FOR FISHING RODS AND FISHING REELS.
Claims use since June 6, 1944.

418,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SELL'S PLANNED FOODS, INC., New York, N. Y. Filed Dec. 16, 1944. Serial No. 477,667.




FOR LIVER PASTE MIX.
Claims use since Sept. 28, 1944.

418,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOPPERS COMPANY, INC., Kearny, N. J. Filed Dec. 23, 1944. Serial No. 477,887.

CAMPHORETTES

FOR CAKES OF REFINED NAPHTHALENE WITH GUM CAMPHOR FOR USE AS A MOTH PREVENTIVE.
Claims use since December 1918.

418,172. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. T. LAIR, doing business as J. T. Lair Co., Seattle, Wash. Filed Jan. 3, 1945. Serial No. 478,180.



FOR CANNED SALMON.
Claims use since July 27, 1921.



418,173. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSTON DRUG & CHEMICAL CO., Boston, Mass. Filed Jan. 11, 1945. Serial No. 478,490.

Prince's

FOR AFTER-SHAVING LOTION.
Claims use since June 2, 1942.

418,174. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAMIE C. AUCOIN DECKER, doing business as Aucoin, New Orleans, La. Filed Feb. 2, 1945. Serial No. 479,334.

Aucoin's Magnolia

FOR PERFUME.
Claims use since Apr. 25, 1935.

418,175. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LYONS-MAGNUS, INC., San Francisco, Calif. Filed Feb. 10, 1945. Serial No. 479,682.

LYONS

FOR ROOT BEER FOUNTAIN SYRUPS AND BOTTLED ROOT BEER.
Claims use since April 1929.

418,176. (CLASS 38. PRINTS AND PUBLICATIONS.) STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Mar. 28, 1945. Serial No. 481,445.

The house that bonds will build

FOR A SECTION IN A PERIODICAL PUBLICATION SETTING FORTH DETAILED INFORMATION CONCERNING THE FINANCING, ARCHITECTURAL RENDERING, PLANNING, DECORATING AND LANDSCAPING OF HOMES, PUBLISHED AT INTERVALS.
Claims use since Sept. 22, 1944.

418,177. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Apr. 6, 1945. Serial No. 481,822.

WYANDOTTE
METAL CLEANER NO. 39

FOR A SODIUM SILICATE COMPOSITION FOR INDUSTRIAL CLEANING OF METAL SURFACES.
Claims use since on or about May 29, 1941.

418,178. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN D. MULLEN, Palestine, Ill. Filed Apr. 26, 1945. Serial No. 482,634.

Mullen's

FOR FRENCH DRESSING.
Claims use since June 1, 1938.

418,179. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NEWSPAPER PM, INC., New York, N. Y. Filed May 21, 1945. Serial No. 483,626.

BARNABY

FOR A COMIC STRIP IN A DAILY NEWSPAPER.
Claims use since Jan. 3, 1944.

418,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. J. MATULICH, doing business as T. J. Matulich Co., Watsonville, Calif. Filed June 4, 1945. Serial No. 484,138.

FINE-S PAK

FOR FRESH VEGETABLES.
Claims use since March 1941.

---

418,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JEWETT & SHERMAN CO., doing business as Holsum Products, Milwaukee, Wis. Filed June 15, 1945. Serial No. 484,571.

Peanut Creme

Applicant is the owner of Reg. No. 387,472.
FOR PEANUT BUTTER.
Claims use since Nov. 25, 1941.

---

418,182. (CLASS 47. WINES.) PADRE VINEYARD COMPANY, Los Angeles, Calif. Filed July 7, 1945. Serial No. 485,540.

Vai Bros.

FOR WINES.
Claims use since June 12, 1943.

---

418,183. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed July 16, 1945. Serial No. 485,848.

ARDENA
ORANGE SKIN CREAM

FOR FACE AND BODY CREAMS.
Claims use since Dec. 15, 1941.

418,184. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSOLIDATED COSMETICS, Chicago, Ill. Filed July 19, 1945. Serial No. 485,989.

MARSEILLES

FOR LIPSTICKS, FACIAL MAKE-UP, FACE POWDER AND PERFUMES.
Claims use since Nov. 18, 1940.

---

418,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH ATLANTIC PACKING COMPANY, Bar Harbor, Maine. Filed July 27, 1945. Serial No. 486,376.

BAR HARBOR

FOR CANNED FLAKE FISH, CANNED SEA MUSSELS AND CANNED SEAFOOD CHOWDER-MIX.
Claims use since Oct. 1, 1943.

---

418,186. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) GRAHAM PAPER COMPANY, St. Louis, Mo. Filed Aug. 2, 1945. Serial No. 486,615.

SAFE T NAPS

FOR SANITARY NAPKINS.
Claims use since July 1, 1944.

---

418,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed Aug. 6, 1945. Serial No. 486,739.

ARDENA SPECIAL
CONSISTENCY CREAM

FOR FACE AND BODY CREAMS.
Claims use since Oct. 22, 1940.

---

418,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSOLIDATED COSMETICS, Chicago, Ill. Filed Aug. 17, 1945. Serial No. 487,170.

BOLIVIA

FOR LIPSTICKS, FACE POWDER, HAND LOTION, BRILLIANTINE AND PERFUMES.
Claims use since Aug. 7, 1944.

# TRADE-MARK REGISTRATIONS RENEWED

27,170. **VELUNA.** RIBBONS, TRIMMINGS, DRESS MATERIAL, UNDERWEAR MATERIAL, CLOTHS, HANDKERCHIEFS, DUSTERS AND POLISHING CLOTHS, AND WOMEN'S DIAPERS OR SANITARY TOWELS. Registered Nov. 5, 1895. JONES BROTHERS & Co. Re-renewed Nov. 5, 1945, to The Hollins Mill Co., Limited, Manchester, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Classes 39, 40, 42 and 44.

27,402. **"POSTUM CEREAL" ETC. AND DESIGN.** FOOD DRINKS. Registered Dec. 3, 1895. POSTUM CEREAL CO., LIMITED, Battle Creek, Mich. Re-renewed Dec. 3, 1945, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

44,947. **RESISTINE.** ANTISEPTIC FLUID FOR INTERNAL AND EXTERNAL USE. Registered Aug. 1, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 1, 1945. Class 6.

45,295. **"BATTLE AXE" AND DRAWING.** BOOTS AND SHOES MADE OF LEATHER. Registered Aug. 8, 1905. STEPHEN PUTNEY SHOE CO., Richmond, Va., a corporation of Virginia. Re-renewed Aug. 8, 1945. Class 39.

45,428. **INFANTA.** TOILET SOAP. Registered Aug. 15, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 15, 1945. Class 4.

45,479. **MARQUISE.** PERFUMES AND TOILET-WATER. Registered Aug. 22, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 22, 1945. Class 6.

45,617. 4711. COLOGNE WATER, FLORIDA WATER, AND PERFUMERY. Registered Aug. 22, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 22, 1945. Class 6.

45,697. **PROFESSOR FLINT'S, ETC.** POWDERS FOR USE AS A REMEDY FOR CATTLE AND HORSES, FOR THE CURE OF WORMS, HEAVES, EPIZOOTIC, PINK EYE, HORSE DISTEMPER, AND OTHER DISEASES OF HORSES AND CATTLE, AND AS A CURE FOR DEBILITY, AND AS A BLOOD RENOVATOR AND TONIC. Registered Aug. 29, 1905. DR. B. J. KENDALL COMPANY, Enosburg Falls, Vt., a corporation of Vermont. Re-renewed Aug. 29, 1945. Class 6.

45,698. **KENDALL'S BLISTER.** LIQUID PREPARATION USED AS A REMEDY FOR RING-BONE, SPAVIN, SPLINT, CURB, UNNATURAL ENLARGEMENTS OF THE JOINTS, AND THE LIKE IN HORSES AND CATTLE. Registered Aug. 29, 1905. DR. B. J. KENDALL COMPANY, Enosburg Falls, Vt., a corporation of Vermont. Re-renewed Aug. 29, 1945. Class 6.

45,709. **MARQUISE.** TOILET SOAP. Registered Aug. 29, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 29, 1945. Class 4.

45,743. **RHINE.** PERFUMERY. Registered Aug. 29, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 29, 1945. Class 6.

45,775. **REPRESENTATION OF A MEDUSA'S HEAD AND DESIGN.** HAIR TONIC. Registered Aug. 29, 1905. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Aug. 29, 1945. Class 6.

45,784. **THE LION OF DISEASES IS LED BY A CHILD, AND DRAWING.** REMEDY FOR THE CURE OF DYSPEPSIA AND INDIGESTION. Registered Aug. 29, 1905. URIAS B. KLINE. Re-renewed Aug. 29, 1945, to Adaline A. Bennetch, Reamstown, Pa. Class 6.

46,314. **OZARKA.** MINERAL WATER. Registered Sept. 12, 1905. EUREKA SPRINGS WATER CO. Re-renewed Sept. 12, 1945, to Richard R. Thompson, Eureka Springs, Ark. Class 45.

46,894. **REPRESENTATION OF PANSY FLOWERS.** WHEAT-FLOUR. Registered Oct. 17, 1905. PHOENIX FLOUR MILL, Evansville, Ind. Re-renewed Oct. 17, 1945, to Igleheart Brothers Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

47,918. **VAN BRUNT.** GRAIN DRILLS AND SEEDERS. Registered Nov. 28, 1905. THE VAN BRUNT MANUFACTURING COMPANY, Horicon, Wis., a corporation of Wisconsin. Re-renewed Nov. 28, 1945. Class 23.

48,072. **SHAKER.** SALT FOR TABLE, COOKING, DAIRY, AND GENERAL HOUSEHOLD USES. Registered Dec. 5, 1905. DIAMOND CRYSTAL SALT CO., St. Clair, Mich. Re-renewed Dec. 5, 1945, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

48,295. **REPRESENTATION OF THE STATUE KNOWN AS MINUTE MAN.** PREPARED GELATIN. Registered Dec. 19, 1905. WHITMAN GROCERY COMPANY, Orange, Mass. Re-renewed Dec. 19, 1945, to Minute Tapioca Company, Inc., New York, N. Y., a corporation of Massachusetts. Class 46.

48,373. **JENKINS.** VALVES AND PARTS OF VALVES AND COCKS AND PARTS OF COCKS. Registered Dec. 26, 1905. ALFRED B. JENKINS, New York, N. Y., and Boston, Mass. Re-renewed Dec. 26, 1945, to Jenkins Bros., New York, N. Y., and Bridgeport, Conn., a corporation of New Jersey. Class 13.

48,387. **REPRESENTATION OF STATUE KNOWN AS "MINUTE MAN."** PREPARED TAPIOCA. Registered Dec. 26, 1905. WHITMAN GROCERY COMPANY, Orange, Mass. Re-renewed Dec. 26, 1945, to Minute Tapioca Company, Inc., New York, N. Y., a corporation of Massachusetts. Class 46.

48,449. **"CRESCENT" AND DRAWING.** FLAVORING EXTRACTS. Registered Jan. 2, 1906. CRESCENT MANUFACTURING CO., Seattle, Wash., a corporation of Washington. Re-renewed Jan. 2, 1946. Class 46.

48,761. **MALTO.** MEDICINAL PREPARATIONS CONTAINING THE NUTRITIVE ELEMENTS OF GRAIN. Registered Jan. 9, 1906. THE MALTINE COMPANY, Brooklyn, N. Y. Re-renewed Jan. 9, 1946, to The Maltine Company, New York, N. Y., a corporation of New York. Class 6.

49,068. **99.** COFFEE. Registered Jan. 23, 1906. CRESCENT MANUFACTURING CO., Seattle, Wash., a corporation of Washington. Re-renewed Jan. 23, 1946. Class 46.

49,375. **"LA AFRICANA" ETC. AND DESIGN.** HAVANA CIGARS. Registered Feb. 6, 1906. HAVANA COMMERCIAL COMPANY, New York, N. Y. Re-renewed Feb. 6, 1946, to Havana Commercial Company, Trenton, N. J., a corporation of New Jersey. Class 17.

49,431. **"LION BRAND" AND DRAWING.** NEEDLES. Registered Feb. 6, 1906. CHARLES H. CROWLEY, New York, N. Y. Re-renewed Feb. 6, 1946. Class 40.

49,437. **REPRESENTATION OF AN INDIAN MAIDEN.** COTTON PIECE GOODS. Registered Feb. 6, 1906. JACKSON COMPANY, Nashua, N. H. Re-renewed Feb. 6, 1946, to Nashua Manufacturing Company, Boston, Mass., a corporation of New Hampshire. Class 42.

49,547. **CRESO.** BISCUITS, CRACKERS, AND WAFERS. Registered Feb. 6, 1906. THE HITCHNER BISCUIT CO., West Pittston, Pa., a corporation of Pennsylvania. Re-renewed Feb. 6, 1946. Class 46.

49,561. **CALIFIG.** LIQUID PURGATIVE COMPOUNDS. Registered Feb. 13, 1906. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Re-renewed Feb. 13, 1946, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

49,573. **"CUTICURA" ETC. AND DESIGN.** OINTMENT. Registered Feb. 13, 1906. POTTER DRUG & CHEMICAL CORPORATION, Boston, Mass. Re-renewed Feb. 13, 1946, to Potter Drug & Chemical Corporation, Malden, Mass., a corporation of Maine. Class 6.

49,608. **REPRESENTATION OF A CIRCULAR DESIGN.** PLOWS, CULTIVATORS, ROLLERS, AND HARROWS. Registered Feb. 13, 1906. WIARD PLOW COMPANY, Batavia, N. Y., a corporation of New York. Re-renewed Feb. 13, 1946. Class 23.

49,668. **CELLULOID.** LAUNDRY STARCH. Registered Feb. 13, 1906. THE CELLULOID STARCH COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to A. E. Staley Manufacturing Co., Decatur, Ill., a corporation of Delaware. Class 6.

49,689. **REPRESENTATION OF TWO CROSSED COLLARS WITH A CUFF.** LAUNDRY STARCH. Registered Feb. 13, 1906. THE CELLULOID STARCH COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to A. E. Staley Manufacturing Co., Decatur, Ill., a corporation of Delaware. Class 6.

49,741. **"PHOENIX" AND DRAWING.** GLASS ELECTRIC GLOBES AND GLASS SHADES. Registered Feb. 13, 1906. THE PHOENIX GLASS CO., Pittsburgh, Pa. Re-renewed Feb. 13, 1946, to The Phoenix Glass Co., Monaca, Pa., a corporation of West Virginia. Class 34.

49,768. **GLASTENBURY.** KNITTED UNDERWEAR. Registered Feb. 13, 1906. GLASTONBURY KNITTING COMPANY, Addison, Conn. Re-renewed Feb. 13, 1946, to Wright's Underwear Company, Inc., New York, N. Y., a corporation of New York. Class 39.

200,970. **BLANKET.** FRESH APPLES AND PEACHES. Registered July 14, 1925. THE ASSOCIATED FRUIT COMPANY, Delta, Colo. Renewed July 14, 1945, to Palmer and Company, Cedaredge, Colo., a copartnership. Class 46.

201,024. **TOMAHAWK.** FRESH APPLES. Registered July 14, 1925. THE ASSOCIATED FRUIT COMPANY, Delta, Colo. Renewed July 14, 1945, to Palmer and Company, Cedaredge, Colo., a copartnership. Class 46.

201,220. **TRU-PENN.** LUBRICATING OILS AND GREASES. Registered July 21, 1925. GLIDO OIL & CHEMICAL COMPANY, INC. Renewed July 21, 1945, to American Lubricants, Inc., Buffalo, N. Y., a corporation of New York. Class 15.

201,350. **CARAVAN.** CANDY. Registered July 21, 1925. E. A. HOFFMAN CANDY CO., INC., Los Angeles, Calif., a corporation of California. Renewed July 21, 1945. Class 46.

201,635. **HORA.** CHEMICALS FOR DESTROYING VERMIN, ANIMAL, AND PLANT PESTS. Registered Aug. 4, 1925. DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT VORMALS ROESSLER, Frankfort-on-the-Main, Germany. Vested in the Alien Property Custodian, Washington, D. C., and renewed to him Aug. 4, 1945. Class 6.

201,948. **COTE GAZELLE.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered Aug. 11, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Aug. 11, 1945. Class 42.

201,977. **FOREMOST.** CANNED SALMON. Registered Aug. 11, 1925. EMEL PACKING COMPANY, Seattle, Wash., and Valdez, Alaska. Renewed Aug. 11, 1945, to Pacific American Fisheries, Inc., South Bellingham, Wash., a corporation of Delaware. Class 46.

202,019. **REPRESENTATION OF A QUAKER WITHIN KEYSTONE DESIGN.** GENERAL CLEANSING PREPARATION WITH WATER-SOFTENING PROPERTIES. Registered Aug. 11, 1925. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 11, 1945. Class 4.

202,205. **CERESAN.** AGENTS FOR DESTROYING PARASITES WHICH INFEST ANIMALS AND PLANTS. Registered Aug. 18, 1925. ACTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION, Berlin, Germany. Renewed Aug. 18, 1945, to Du Pont Semesan Company, Wilmington, Del., a corporation of Delaware. Class 6.

202,303. **TENDRIL PRINTS.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered Aug. 18, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Aug. 18, 1945. Class 42.

202,304. **GRAVURE PRINTS.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered Aug. 18, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Aug. 18, 1945. Class 42.

202,456. **SERI-PLANE.** STRAND-EXAMINING MACHINES. Registered Aug. 25, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Aug. 25, 1945. Class 23.

202,459. **LEAPING LENA.** CANDY. Registered Aug. 25, 1925. THE BONITA CO., also doing business as The Bonita Company. Renewed Aug. 25, 1945, to Bonita Candies, Inc., Fond du Lac, Wis., a corporation of Wisconsin. Class 46.

202,732. **"FLEXIES" AND DRAWING.** LEATHER SHOES. Registered Sept. 1, 1925. SIMPLEX SHOE MANUFACTURING COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed Sept. 1, 1945. Class 39.

202,733. **FLEXIES.** LEATHER SHOES. Registered Sept. 1, 1925. SIMPLEX SHOE MANUFACTURING COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed Sept. 1, 1945. Class 39.

202,901. **THEONLI.** CANNED SALMON. Registered Sept. 8, 1925. BOOTH FISHERIES COMPANY, Chicago, Ill. Renewed Sept. 8, 1945, to Pacific American Fisheries, Inc., South Bellingham, Wash., a corporation of Delaware. Class 46.

202,957. **NEOMERPIN.** PREPARATIONS FOR TREATING TEXTILE FIBERS AND FABRICS. Registered Sept. 8, 1925. CHEMISCHE FABRIK PÖTT & CO., Dresden, Germany. Renewed Sept. 8, 1945, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 6.

203,176. **R & H CHEMICALS.** HEXAMETHYLENETETRAMINE, PARAFORMALDEHYDE, ALDEHYDE AMMONIA, FORMALDEHYDE ANILINE, DIPHENYLGUANIDINE, TRIPHENYLGUANIDINE, DIORTHOTOLYLGUANIDINE, ETHYLIDINE ANILINE, TRICHLORETHYLENE, TETRACHLORETHANE, ETHYL CHLORIDE, METHYL CHLORIDE, CYANIDES AND CYANIDE MIXTURES, METALLIC SODIUM, SODIUM PEROXIDE, SODIUM PERBORATE, TIN OXIDE. Registered Sept. 15, 1925. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y. Renewed Sept. 15, 1945, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 6.



203,532. **COQUILLE PRINTS.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered Sept. 22, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Sept. 22, 1945. Class 42.

203,535. **PRINTS FERRONNIERE.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. Registered Sept. 22, 1925. CHENEY BROTHERS, South Manchester, Conn., a corporation of Connecticut. Renewed Sept. 22, 1945. Class 42.

203,689. **ACOUSTI-CELOTEX.** DECORATIVE WALL FINISH USED FOR ACOUSTICAL CORRECTION OR SOUND DEADENING. Registered Sept. 22, 1925. THE CELOTEX COMPANY. Renewed Sept. 22, 1945, to The Celotex Corporation, Chicago, Ill., a corporation of Delaware. Class 12.

203,852. **"HALF-MILE-RAY" ETC. AND DESIGN.** SEARCHLIGHTS AND FLASH LIGHTS. Registered Sept. 29, 1925. THE PORTABLE LIGHT CO. Renewed Sept. 29, 1945, to The Portable Light Co., Inc., New York, N. Y., a corporation of New York. Class 21.

203,858. **"WOLF BRAND" AND DRAWING.** CANNED CHILI MADE OF BEEF. Registered Sept. 29, 1925. LYMAN T. DAVIS, doing business as Lyman's Pure Food Products Co. Renewed Sept. 29, 1945, to Wolf Brand Products, Corsicana, Tex., a partnership. Class 46.

203,934. **MIRACLE.** HOSIERY. Registered Sept. 29, 1925. PENNSYLVANIA SILK HOSIERY MILLS, INC., Bangor, Pa. Renewed Sept. 29, 1945, to Chipman Knitting Mills, Easton, Pa., a corporation of Pennsylvania. Class 39.

204,576. **REPRESENTATION OF A RED BAND ON PIPE COVERING.** SECTIONAL PIPE COVERING. Registered Oct. 20, 1925. JOHNS-MANVILLE, INCORPORATED. Renewed Oct. 20, 1945, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 12.

204,872. **PLAYMATE.** SOAP. Registered Oct. 27, 1925. NATIONAL COCOANUT SOAP CO., Tacoma, Wash., a firm. Renewed Oct. 27, 1945. Class 4.

204,935. **KLEEN-A-WELL.** CHEMICAL COMPOUND FOR CLEANING OIL WELLS. Registered Oct. 27, 1925. F. DALY SULLIVAN, doing business as The Sullivan Company. Renewed Oct. 27, 1945, to The Sullivan Company, Memphis, Tenn., a corporation of Tennessee. Class 6.

205,062. **BLUE BAND. CHEESE.** Registered Nov. 3, 1925. DAVIS BROS. CHEESE CO., Plymouth, Wis. Renewed Nov. 3, 1945, to Kraft Cheese Company of Wisconsin, Green Bay, Wis., a corporation of Wisconsin. Class 46.

205,827. **DRAPEEN.** WOOLEN DRESS GOODS, ESPECIALLY WORSTEDS IN THE PIECE. Registered Nov. 17, 1925. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y. Renewed Nov. 17, 1945, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware. Class 42.

206,006. **"C. B. W." AND DESIGN.** CIDER VINEGAR, WHITE VINEGAR, PREPARED MUSTARD, AND COTTONSEED SALAD OIL. Registered Nov. 24, 1925. CRESCENT BOTTLING WORKS, Newark, N. J., a corporation of New Jersey. Renewed Nov. 24, 1945. Class 46.

206,241. **"CELITE PRODUCTS" ETC. AND DRAWING.** MATERIALS COMPRISING DIATOMACEOUS EARTH OR INFUSORIAL EARTH, EITHER RAW OR IN PARTLY-PREPARED CONDITION; AND IN THE FORM OF CRUDE RUN-OF-MINE MATERIAL, POWDER, FRAGMENTS, CUT BRICKS OR BLOCKS, OR COMPOSITIONS CONTAINING DIATOMACEOUS OR INFUSORIAL EARTH. Registered Nov. 24, 1925. CELITE PRODUCTS CO., Los Angeles, Calif. Renewed Nov. 24, 1945, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 1.

206,291. **KYLO.** FINELY-DIVIDED SOLID MATERIAL HAVING SELECTIVE ABSORPTIVE PROPERTIES TO BE USED IN AIDING FILTRATION AND IN DE-EMULSIFYING OR DEHYDRATING OF LIQUIDS. Registered Nov. 24, 1925. CELITE PRODUCTS COMPANY, Los Angeles, Calif. Renewed Nov. 24, 1945, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 31.

206,405. **"ADLER'S FAVORITE" AND DESIGN.** SANDWICH DRESSING MADE OF EGGS, SPICES, AND SWEET RELISH, THE LATTER BEING COMPOSED OF PICKLES, CAULIFLOWER, PIMENTOS, AND MUSTARD SEEDS AND THE LIKE, MAYONNAISE, THOUSAND ISLAND DRESSING. Registered Dec. 1, 1925. ADAM N. ADLER. Renewed Dec. 1, 1945, to Leo Adam Adler, doing business as Adler Mayonnaise Co., Evansville, Ind. Class 46.

206,466. **GORTON.** HEATING APPARATUS—NAMELY, BOILERS, VALVES, AND PARTS APPURTENANT THERETO. Registered Dec. 1, 1925. GORTON & LIDGERWOOD CO., New York, N. Y. Renewed Dec. 1, 1945, to Gorton Heating Corporation, Cranford, N. J., a corporation of New York. Class 34.

206,797. **EVR-KOOL.** HARVEST, OUTING, AND SPORT HATS FOR MEN, WOMEN, AND CHILDREN. Registered Dec. 8, 1925. SUPERIOR HAT CO. Renewed Dec. 8, 1945, to Caradine Hat Company, St. Louis, Mo., a corporation of Missouri. Class 39.

206,813. **AIR-SHAFT.** MEN'S, WOMEN'S, BOYS', AND GIRLS' STRAW HATS. Registered Dec. 8, 1925. CARADINE HARVEST HAT COMPANY. Renewed Dec. 8, 1945, to Caradine Hat Company, St. Louis, Mo., a corporation of Missouri. Class 39.

206,884. **TOASTED NUGGETS.** PREPARED COCONUT. Registered Dec. 15, 1925. FRANKLIN BAKER COMPANY, Hoboken, N. J. Renewed Dec. 15, 1945, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

206,973. **TRINITY.** RADIO RECEIVING SETS AND PARTS THEREOF. Registered Dec. 15, 1925. THE PILOT ELECTRIC MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Renewed Dec. 15, 1945, to Pilot Radio Corporation, Long Island City, N. Y., a corporation of New York. Class 21.

207,016. **"RED-DEVIL" AND DRAWING.** PREPARED SHELLAC, BANANA BRONZING LIQUIDS, HARD WAX POLISH, BLACK ASPHALTUM PAINT, PAINT ENAMEL, FLAT WALL FINISH, OIL STAINS, AND PAINT AND VARNISH REMOVER. Registered Dec. 15, 1925. HARRY LEONARD GREENBAUM, doing business as Technical Color & Chemical Works. Renewed Dec. 15, 1945, to Technical Color and Chemical Works, Inc., Brooklyn, N. Y., a corporation of New York. Class 16.

207,050. **"BUTENS" ETC. AND DRAWING.** PAINTS AND VARNISHES OF ALL KINDS. Registered Dec. 15, 1925. M. BUTEN & SONS, Philadelphia, Pa., a partnership. Renewed Dec. 15, 1945. Class 16.

207,146. **MILK-A-LET.** CANDY. Registered Dec. 22, 1925. E. A. HOFFMAN CANDY CO. Renewed Dec. 22, 1945, to E. A. Hoffman Candy Co., Inc., Los Angeles, Calif., a corporation of California. Class 46.

207,229. **MAC LAGGEN.** MUFFLERS. Registered Dec. 22, 1925. WEISS & ZAHLER. Renewed Dec. 22, 1945, to Zahler Bros. Inc., New York, N. Y., a corporation of New York. Class 39.

207,483. **ENDICOTT.** CIGARS. Registered Jan. 5, 1926. WAITT & BOND, INC., Newark, N. J., a corporation of New Jersey. Renewed Jan. 5, 1946. Class 17.

207,580. **"RED DEVIL CLEANSER" ETC. AND DRAWING.** CLEANSER OR CLEANING, SCOURING, OR WASHING POWDER. Registered Jan. 5, 1926. WM. SCHIELD MFG. CO., St. Louis, Mo. Renewed Jan. 5, 1946, to B. T. Babbitt, Inc., Albany and New York, N. Y., a corporation of New York. Class 4.

207,932. **SCANTIES.** COMBINATION GARMENT COMPRISING A COMBINATION OF BRASSIÈRE, GIRDLE, STEP-IN, AND VEST. Registered Jan. 12, 1926. MODEL BRASSIERE CO. INC., New York, N. Y. Renewed Jan. 12, 1946, to Model Brassiere Corp., Brooklyn, N. Y., a corporation of New York. Class 39.

208,110. **"RED-DEVIL" AND DRAWING.** OXALIC ACID, BISMARCK BROWN ANILENE, ELECTRIC-BULB COLORING, DENATURED ALCOHOL, AND SPRAY PERFUME. Registered Jan. 19, 1926. HARRY LEONARD GREENBAUM, doing business as Technical Color & Chemical Works. Renewed Jan. 19, 1946, to Technical Color and Chemical Works, Inc., Brooklyn, N. Y., a corporation of New York. Class 6.

208,213. **D-A LUBRICANT.** LUBRICATING GREASES. Registered Jan. 19, 1926. D-A LUBRICANT COMPANY, INC., Indianapolis, Ind., a corporation of Indiana. Renewed Jan. 19, 1946. Class 15.

208,222. **SAVE YOUR LIFE.** OIL FOR THE TREATMENT OF RHEUMATISM. Registered Jan. 19, 1926. A. ROCKFORD LEWIS, New Orleans, La. Renewed Jan. 19, 1946. Class 6.

208,292. **JACK RABBIT.** FRESH GRAPES, PEARS, PLUMS, PEACHES, CHERRIES, APRICOTS, AND PERSIMMONS. Registered Jan. 26, 1926. MARTIN GILBERT, Reedley, Calif. Renewed Jan. 26, 1946. Class 46.

208,402. **BRUNSWICK.** BOWLING-ALLEY PIN SETTERS AND SUPPLIES AND EQUIPMENT THEREFOR. Registered Feb. 2, 1926. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill., a corporation of Delaware. Renewed Feb. 2, 1946. Class 22.

208,417. **"WATER WITCH" ETC. AND DRAWING.** FISHING TACKLE—NAMELY, ARTIFICIAL FLIES, BOOKS OR HOLDERS FOR ARTIFICIAL FLIES, FISHING HOOKS BOTH PLAIN AND SNELLED, LEADERS OF BOTH GUT AND WIRE, TROLLING BAIT; SPINNERS, SPOONS, AND SWIVELS FOR FISHING BAIT; SILK-WORM GUT, AND FISHING LINES. Registered Feb. 2, 1926. FROST FISHING TACKLE COMPANY. Renewed Feb. 2, 1946, to The Weber Lifelike Fly Co., Stevens Point, Wis., a corporation of Wisconsin. Class 22.

208,419. **RADIUM.** RAZOR BLADES AND SAFETY-RAZOR BLADES. Registered Feb. 2, 1926. OTTO ROTH, INC., Newark, N. J. Renewed Feb. 2, 1946, to Colton Razor Blade Company, Boston, Mass., a corporation of Massachusetts. Class 23.

208,439. **ZELIO.** RODENTICIDES. Registered Feb. 2, 1926. THE BAYER COMPANY, INC., New York, N. Y. Renewed Feb. 2, 1946, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

208,451. **YUNGFELLO.** CIGARS. Registered Feb. 2, 1926. BAYUK CIGARS INCORPORATED, Philadelphia, Pa., a corporation of Maryland. Renewed Feb. 2, 1946. Class 17.

208,516. **HACK-DEVIL.** ADZES. Registered Feb. 2, 1926. THE WARREN TOOL AND FORGE CO., Warren, Ohio, a corporation of Ohio. Renewed Feb. 2, 1946. Class 23.

208,518. **CAL-ADE.** NONALCOHOLIC BEVERAGES—NAMELY, AN ORANGE DRINK. Registered Feb. 2, 1926. THE EXCHANGE ORANGE PRODUCTS COMPANY, San Dimas, Calif. Renewed Feb. 2, 1946, to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California. Class 45.

208,558. **ARISTOCRAFT.** PRINTED CRAFT PAPER. Registered Feb. 2, 1926. CENTRAL STATES PAPER DISTRIBUTING CO. Renewed Feb. 2, 1946, to Central States Paper and Bag Company, St. Louis, Mo., a corporation of Missouri. Class 37.

208,699. **"BUCKS HEAD" AND DRAWING.** COTTON PIECE GOODS. Registered Feb. 9, 1926. PACOLET MFG. CO., Pacolet and Spartanburg, S. C., and New Holland, Ga., a corporation of South Carolina. Renewed Feb. 9, 1946. Class 42.

208,726. **"FEMMES DE PARIS YBRY" AND DESIGN.** PERFUMES, TOILET WATER, FACE AND TALCUM POWDERS, BATH SALTS, ROUGE AND LIP STICKS. Registered Feb. 9, 1926. YBRY, INC. Renewed Feb. 9, 1946, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. Class 6.

208,736. **PARKLANE.** SMOKING PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. Registered Feb. 9, 1926. L. & H. STERN, INC., Brooklyn, N. Y., a corporation of New York. Renewed Feb. 9, 1946. Class 8.

208,814. **SAYLAMA.** COTTON PIECE GOODS. Registered Feb. 9, 1926. SAYLES FINISHING PLANTS INC. Renewed Feb. 9, 1946, to Sayles Finishing Plants, Inc., Saylesville, R. I., a corporation of Rhode Island. Class 42.

208,860. **B. B. MEANS BETTERBEST.** FRESH VEGETABLES—NAMELY, GREEN ONIONS AND GREEN ONIONS FOR PLANTING PURPOSES. Registered Feb. 9, 1926. HERBERT CRAWFORD PITTMAN, Cotulla, Tex. Renewed Feb. 9, 1946, to Herbert Crawford Pittman, Tyler, Tex. Class 46.

208,865. **TURNSTYLE.** CUFF BUTTONS, CUFF LINKS, BUCKLES, KEY RINGS, CHAIN FASTENERS, SNAP FASTENERS, GLOVE FASTENERS, LEATHER-GOODS FASTENERS, SPRING RINGS, TIE CLASPS, LAPEL BUTTONS, BROOCHES, AND CHAIN BARS, ALL OF WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS, CHAINS FOR PERSONAL ADORNMENT, BRACELETS, CHARMS, FOBS, PENDANTS, AND FINGER RINGS. Registered Feb. 9, 1926. B. A. BALLOU & CO. INCORPORATED, Providence, R. I., a corporation of Rhode Island. Renewed Feb. 9, 1946. Class 28.

208,901. **BELLOVA.** PORTABLE ELECTRIC-LIGHTING FIXTURES, ELECTRIC DESK LAMPS, ELECTRIC DRESSER LAMPS, ELECTRIC BOUDOIR LAMPS, ELECTRIC TABLE LAMPS, AND ELECTRIC FLOOR LAMPS. Registered Feb. 9, 1926. H. G. MCFADDIN & CO. Renewed Feb. 9, 1946, to Emeralite Company, Inc., New York, N. Y., a corporation of New Jersey. Class 21.

# REISSUES

## DECEMBER 4, 1945

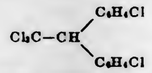
### 22,700
### DEVITALIZING COMPOSITION OF MATTER

**Paul Müller, Basel, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland**

**No Drawing. Original No. 2,329,074, dated September 7, 1943, Serial No. 381,763, March 4, 1941. Application for reissue July 16, 1945, Serial No. 605,431**

**5 Claims. (Cl. 167—30)**

1. An insecticidal composition of matter comprising the combination of the active ingredient α,α-di(p-chlorophenyl)-β,β,β-trichlorethane of the formula



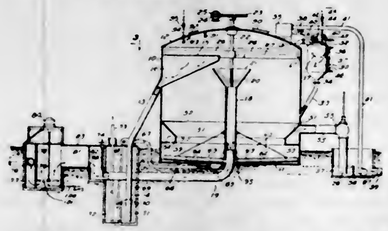
and an insecticidal carrier selected from the group consisting of powder, solvent free from ether, and aqueous emulsion.

### 22,701
### LIQUID CLARIFICATION

**Earl M. Kelly and Arthur M. Kivari, Los Angeles, Calif., Robert P. Kite, Larchmont, N. Y., Elliott J. Roberts, Westport, Conn., and David B. Sutherland, Montclair, N. J., assignors to The Dorr Company, a corporation of Delaware**

**Original No. 2,324,400, dated July 13, 1943, Serial No. 399,058, June 21, 1941. Application for reissue August 28, 1945, Serial No. 613,122**

**13 Claims. (Cl. 210—3)**



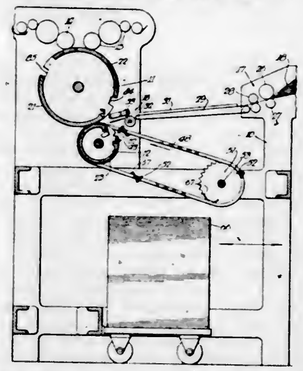
1. The process of removing suspended solids from their carrying liquid which comprises maintaining an enclosed body of liquid being treated whose liquid level is subject normally to vertical fluctuations, continually supplying gas-containing liquid to the liquid body and conducting such liquid to the region of the surface of the liquid body, continually sucking through a pipe inlet disposed cooperatively within the limits of the fluctuating liquid level alternately liquid when the liquid level rises thereabove and gas when the liquid level falls therebelow whereby to substantially minimize fluctuations of the level of the liquid body and whereby to continually maintain on the surface of the body sub-atmospheric pressure, continually removing floating matter from the surface of the body at a point functionally remote from the point of application of the suction, and continually removing from the body clarified liquid.

### 22,702
### PRINTING PRESS

**William Ward Davidson, Evanston, Ill., assignor to Davidson Manufacturing Corporation, Chicago, Ill., a corporation of Illinois**

**Original No. 2,280,799, dated April 28, 1942, Serial No. 297,745, October 3, 1939. Application for reissue January 29, 1944, Serial No. 520,351**

**21 Claims. (Cl. 101—217)**

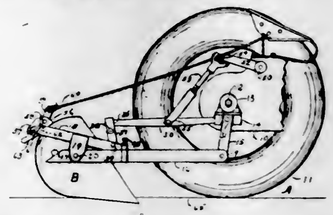


21. A printing press comprising printing rolls forming a bite therebetween, and chain registration-delivery means including sprockets rigidly mounted with respect to one of said rolls and rotating therewith, a pair of chains extending around said sprockets, each having a length corresponding to a number of revolutions of said sprockets and a plurality of gripping units carried by the chains and cooperating with said rolls to deliver sheets to the bite for separate printings by said rolls, means for feeding a sheet to each gripping unit while it is supported on said sprockets, registering the sheet relative to the printing rolls independently of the exact location of the gripping unit relative to the printing rolls, and gripping the sheet when so registered, whereby successive printings of the same sheet by said printing rolls are made with substantially perfect registration regardless of which gripping unit carries the sheet through the bite and its precise location relative to the printing rolls.

# PATENTS

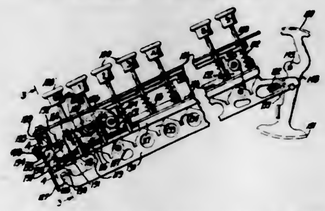
GRANTED DECEMBER 4, 1945

**2,390,040**
**DUMP SCOOP ATTACHMENT FOR TRACTORS**
**Frederick B. Arps, New Holstein, Wis., assignor to Arps Corporation, New Holstein, Wis., a corporation of Wisconsin**
Application October 27, 1944, Serial No. 560,653
5 Claims. (Cl. 37—126)



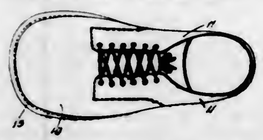
1. In combination with a tractor, having a power lift, a scoop body, drawbars pivotally connected to the tractor at their front ends and to the side walls of the scoop at their rear ends, a U shaped member paralleling the sides and rear of the scoop, its side members being pivoted intermediate their ends to said scoop pivot to permit limited tilting in either direction of said U shaped member on its pivots, a latch on the rear of said scoop body, having means whereby when the scoop is moved to its loading position said latch will engage the rear end of said U shaped member, arms spaced above said drawbars and being hinged at their front ends to the tractor and having a link connection from their rear ends to the forward ends of said U shaped member, an operating connection from said power lift to said arms intermediate their ends, whereby when said power lifting mechanism is first operated the front end only of the scoop will be lifted and the scoop tilted somewhat backwards, means associated with said latch whereby when the scoop is lifted the tractor operator may release said latch and permit or force the scoop to tilt forward.

**2,390,041**
**CALCULATING MACHINE**
**Harold T. Avery and Theodore H. Lamagne, Oakland, Calif., assignors to Marchant Calculating Machine Company, a corporation of California**
Application December 1, 1943, Serial No. 512,452
2 Claims. (Cl. 235—145)



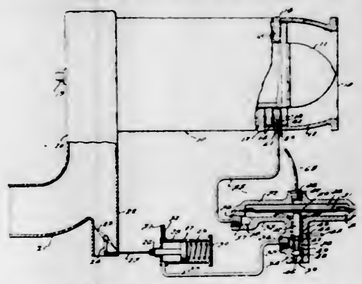
1. In a calculating machine having a keyboard comprising a row of depressible keys and means for holding a depressed one of said keys in depressed position; releasing means for moving said holding means to release said depressed key comprising the combination of a clearing member with means comprising a lever pivotally mounted on said clearing member and a fulcruming and blocking member selectively adjustable either to concurrently fulcrum said lever and permit unobstructed movement of said holding means thereby or to concurrently permit unobstructed movement of said clearing member and block movement of said holding means.

**2,390,042**
**SHOE AND METHOD OF MAKING SAME**
**Joseph W. Barna, Chicago, Ill., assignor of one-third to C. A. Laystrom, one-third to Valentine E. Hoffman, and one-third to Mary Theresa Barna, all of Chicago, Ill.**
Application July 28, 1944, Serial No. 546,988
8 Claims. (Cl. 36—45)



1. The method of forming a pre-welt stitchdown shoe upper which comprises stitching a welt to and around the upper with the stitching line close to the lower edge of the welt and a distance above the upper edge to leave a margin on the upper, and folding this upper margin upwardly around the lower edge of the welt and against the outer side of the welt for cementing thereto, whereby to form a two-layer assembly to which an outer sole may be secured.

**2,390,043**
**CONTROL APPARATUS**
**David M. Borden, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
Application April 13, 1944, Serial No. 530,927
5 Claims. (Cl. 230—115)



1. Apparatus for keeping within the pumping limit a supercharger having rotary and regular stationary blades, comprising a special stationary blade mounted on the supercharger adjacent the





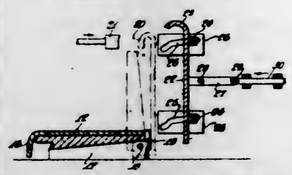
aforementioned regular stationary blades and being at a lesser angle to the axis of rotation than that of the regular stationary blades, a spill valve in the delivery line of the supercharger, means responsive to change in the relation of the pressures at a point of the special blade and a corresponding point of one of the regular stationary blades due to approach or arrival of the pumping limit, and means connecting the spill valve and the aforesaid means for causing approach or arrival of the pumping limit to increase the opening of the spill valve.

**2,390,044**
**PISTON RING**
**Thomas A. Bowers, Boston, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts**
Application May 31, 1939, Serial No. 276,583
4 Claims. (Cl. 309—45)



1. A piston ring comprising a strip of sheet metal reversely bent to form crowns and connecting webs, said crowns being I-shaped.

**2,390,045**
**METHOD OF MAKING COMPOSITE SIDING AND ROOFING**
**Floyd W. Adams, Huntington Park, Calif., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware**
Original application August 25, 1938, Serial No. 226,695, now Patent No. 2,251,622, dated August 5, 1941. Divided and this application March 21, 1941, Serial No. 384,608
2 Claims. (Cl. 154—2)



1. The method of manufacturing a composite siding and roofing unit, comprising the steps; forming a body blank with a rounded butt, forming an unset felted asbestos cement sheet, applying the unset asbestos cement sheet to a face of the body blank while the body blank is supported in substantially horizontal position and with a portion of such sheet extending outwardly beyond the butt edge of the blank, moving the assemblage toward a vertical position, the position of the assemblage being otherwise maintained with the unset asbestos cement sheet uppermost whereby under the action of gravity the projection of such sheet tends to wrap around the rounded butt, the step of pressing the sheet firmly into contact with the surface of the body blank around the butt thereof and with a portion of the body blank adjacent the butt edge, thereby causing the felted asbestos cement sheet to be affixed to the body blank and finally causing the asbestos cement sheet to set.

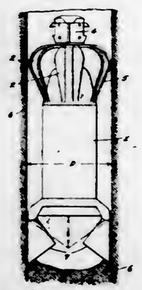
**2,390,046**
**PROCESS FOR RENDERING FIBROUS TEXTILE MATERIALS FAST TO SLIPPING**
**Otto Albrecht, Neue-Welt, near Basel, Switzerland, assignor to the Swiss firm of Society of Chemical Industry in Basle, Basel, Switzerland**
No Drawing. Application February 2, 1942, Serial No. 429,337. In Switzerland February 12, 1941
7 Claims. (Cl. 8—116.2)

1. Process for rendering fibrous textile material fast to slipping which comprises impregnating the material with a solution containing a compound of the general formula

$$R_2—a—CH_2—R_1$$

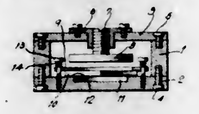
wherein $R_2$ is a substituent the carbon chain of which consists of at least one open chain with 1 to 3 carbon atoms and of at least one six-membered carbon ring the carbon chain of the said substituent $R_2$ being built up of isoprene radicals, $a$ is an arylene radical of the benzene series containing at least one hydroxy group, and wherein $R_1$ is an isothiourea radical in salt form, and then drying the impregnated material.

**2,390,047**
**GRAB USED FOR BORING WELLS**
**Pierre Jean-Marie Theodore Allard, Chantilly, France; vested in the Alien Property Custodian**
Application February 1, 1943, Serial No. 474,327
In France April 24, 1941
1 Claim. (Cl. 255—1)



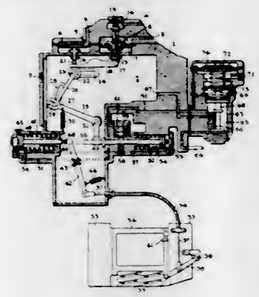
A grab device for boring substantially cylindrical wells comprising an elongated substantially cylindrical body portion of less diameter than that of the well, a plurality of scoops pivotally mounted adjacent the lower extremity of the body portion and adapted to swing outwardly into contact with the well wall, and means secured to said body portion adjacent its upper extremity for maintaining the grab device in a substantially vertical position within the well, comprising spaced guide members of flexible metal radiating into positions to contact the well wall at several points, said guide members being bowed and fastened at their ends to said body portion, and replaceable reinforcing ribs of sheet metal secured upon the intermediate portions of the said guide members in position to contact the well wall during descent and ascent of the grab device within the well.

2,390,048
**PIEZO-CRYSTAL DEVICE**
Henry M. Bach, Lawrence, N. Y., assignor to Premier Crystal Laboratories, Inc., New York, N. Y., a corporation of New York
Application October 9, 1943, Serial No. 505,601
6 Claims. (Cl. 171—327)



1. A piezo-crystal device comprising a holder for the crystal, said holder having means to define a cavity adjacent one face of the crystal, an electrode integrally carried by said one face of the crystal, and an adjustable electrode gap adjacent the opposite face of the crystal, said cavity being dimensionally correlated with the crystal to reduce the effect of disturbing reflections within the cavity and without materially affecting the oscillation starting properties of the crystal.

2,390,049
**AIR BRAKE**
Wayne A. Baldwin, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application January 8, 1945, Serial No. 571,803
4 Claims. (Cl. 303—22)



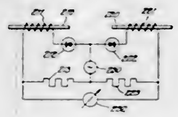
1. A device for adjusting a relay on a car body in accordance with the load sustaining positions of a spring-borne element of a truck which sustains said body, comprising in combination, an abutment displaceable with said spring-borne element; a flexible motion-transmitting connection extending between the car body and truck and having a part movable in the direction of motion of said abutment and engageable therewith to be positioned thereby; a first pressure motor operable to move said connection into said engagement; a stop on the body arranged to move with said connection; relay adjusting means movable in a path substantially concurrent with that of said stop between a no load and a full load position, the stop serving to limit motion of the adjusting means toward full load position; means biasing the adjusting means toward no load position; fluid pressure controlled means for latching said adjusting means in adjusted positions; a second pressure motor incapable of overpowering the first and arranged to shift said adjusting means toward full load position; and a fluid pressure connection in which pressure may be established and dissipated, said fluid pressure connection serving to energize both motors and control the latch.

2,390,050
**PLATE AND BEARING ASSEMBLY**
Max Gordon Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 1, 1944, Serial No. 566,148
2 Claims. (Cl. 308—134.1)



1. An assembly comprising a plate shaped to provide an annular channel between a peripherial flange and a flange surrounding a central hole, a second plate, a bearing bushing attached to second plate and journalled in the central flange of the first plate, porous metal bearing buttons attached to one plate and bearing on the other plate, spring means urging the plates toward each other, and a lubricant absorbing member located in said annular channel for supplying lubricant to the bearings.

2,390,051
**MEANS FOR MEASURING MAGNETIC FIELDS**
Gustav Barth, Berlin, Germany; vested in the Alien Property Custodian
Application July 15, 1941, Serial No. 402,530
2 Claims. (Cl. 175—183)

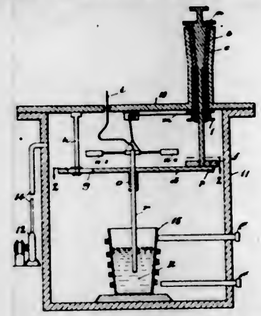


1. A system for measuring a substantially unidirectional magnetic field, comprising two magnetizable core sections of elongated shape to be exposed to said field, said sections being arranged in similar directions relative to each other, circuit means magnetically associated with both said sections for alternately magnetizing said sections in opposite directions, and current-responsive indicating means connected with said circuit means for indicating the differential effect of the resultant magnetizations of said sections on the current in said circuit means.

2,390,052
**DEVICE FOR STIRRING MELTS**
Hans Bernstorff, Frankfort-on-the-Main, and Albert Allendörfer, Bad Homburg, Germany; vested in the Alien Property Custodian
Application March 27, 1941, Serial No. 385,578
In Germany January 2, 1940
4 Claims. (Cl. 266—34)

1. A device for stirring and measuring temperatures of melts, which comprises a horizontally reciprocable support, rotatable eccentric means for reciprocating said support, stirring means including a temperature measuring means mounted on said support for reciprocation together with said support, said stirring means being capable of being raised and lowered with respect to said support, suspension means for said stirring means, and means concentric with the axis of rotation of said rotatable eccentric means for actuating





said suspension means whereby the stirring means may be lowered into and raised out of the melt to be stirred.

2,390,053
**FILM MOUNT SLIDE**
James J. Bradford, Burbank, Calif.
Application March 23, 1943, Serial No. 480,180
6 Claims. (Cl. 88—26)



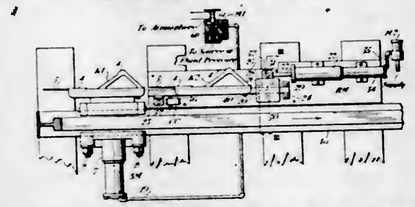
1. A film holding frame comprising two duplicate plates of plate sinkable material adhered to each other in a face-to-face manner, each of said plates having through it an opening which corresponds in size and shape to and alines with the corresponding opening in the other plate in the assembled frame, each of said plates having along opposite sides and along one end of said opening a thinned area extending over a part only of the space between the opening and the outer edge of the plate, and also having at the opposite end of said opening a thinned area which extends all the way out to that end of the plate so that when the plates are adhered to each other as aforesaid the latter thinned area of each plate cooperates with that of the other plate to form a film ingress and exit passage and the remaining thinned areas of the plates cooperate to form a space to contain the film.

2,390,054
**CASTING DEVICE**
Lawren E. Broyles and Everett J. Pittenger, Chico, Calif.
Application July 7, 1944, Serial No. 543,906
10 Claims. (Cl. 22—5)



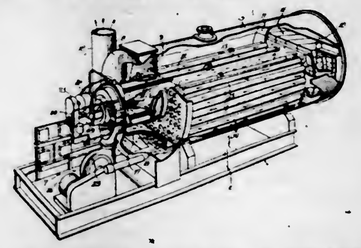

1. A stereotype mat casting device comprising a body formed with a strip matrix receiving channel open to one face thereof, said channel being initially open at one end, a lock-up slide engaged in the channel from said one end, means retaining the slide against outward escape from the channel, said lock-up slide engaging the marginal portions of a matrix in the bottom of the channel and being open between said marginal portions, and releasable means normally preventing removal of the slide from the channel; said last named means comprising a cross slide mounted on the body for movement from a position clear of to a position intersecting the channel at said one open end thereof.

2,390,055
**RAILWAY SKATE CONTROL AND OPERATING APPARATUS**
Gerald T. Clark, Hazel Crest, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 16, 1944, Serial No. 526,670
4 Claims. (Cl. 104—260)



1. In combination with a track rail, railway skate operating apparatus adaptable of having a first skate attached thereto in an active position and a second skate attached thereto in an inactive position, control means including a car controlled contact to govern said apparatus as required to place said first skate on said rail to engage a car wheel, and other control means including a contact controlled by a car in carrying away said first skate to automatically govern said apparatus as required to shift said second skate from its inactive position to the active position previously occupied by said first skate.

2,390,056
**OIL BURNER**
John C. Cleaver, Whitefish Bay, and Jules Verne Resek, Milwaukee, Wis., assignors to Cleaver-Brooks Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 9, 1942, Serial No. 426,138
8 Claims. (Cl. 158—77)

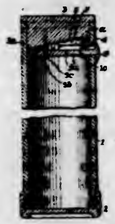


1. An oil burner comprising, in combination, means for discharging fuel oil, means for supplying primary air, and means for supplying secondary air comprising a blower, means forming

an air nozzle completely surrounding said fuel oil discharging means, and means interposed between said blower and said air nozzle imparting to the air discharged from the nozzle a helical motion comprising a hood having a peripheral wall and annular end walls providing an annular space about a central opening, an inlet in the peripheral wall for connection of the hood to said blower, said inlet being disposed so that the air is discharged circularly about the hood, a partition in said hood providing a spiral tapering passage communicating with said air nozzle throughout the entire circumference thereof, and a plurality of vanes disposed in the annular space equidistantly about the central opening in said hood, each vane being composed of a substantially rectangular piece with the portion to one side of a diagonal rolled and mounted with its rolled end tangential to the central opening and with its straight side edge extending tangentially outward from the opening and with the concavity formed by the roll facing the air nozzle.

---

**2,390,057**
**COIN HOLDER**
**Max Cooper, Paterson, N. J.**
**Application March 4, 1944, Serial No. 525,009**
**3 Claims. (Cl. 232—4)**

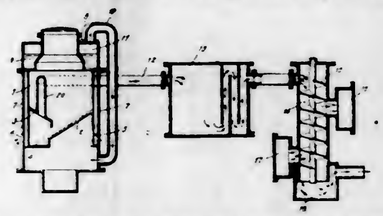


1. The combination, with a hollow receiver having a coin-receiving space and an aperture extending laterally from said space to the exterior of the receiver, of a coin carrier in said space and withdrawable therefrom through the aperture and confined by the receiver during such withdrawal to move in a plane and on which carrier a coin is adapted to be supported wholly within said space, said carrier having a coin fulcrum inward of the aperture and said receiver having a downwardly facing surface inward of the aperture further than said fulcrum and coactive with the latter to maintain the coin tilted to the position in which its margin adjacent said aperture will be above the latter, whereby when the carrier is retracted through the aperture the coin will be unshipped therefrom, and said receiver providing above the carrier a retreat space for the coin as so tilted.

---

**2,390,058**
**GAS PRODUCER BY SOLID FUEL, AND SUITABLE TO FEED GAS MOTORS, AND ESPECIALLY AUTO MOTORS**
**Eduardo Ussani D'Accadia, Milan, Italy; vested in the Alien Property Custodian**
**Application December 11, 1941, Serial No. 422,552**
**In Italy October 16, 1940**
**1 Claim. (Cl. 48—118.5)**

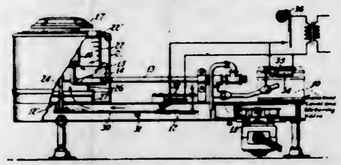
A portable gas producer comprising within the walls thereof a relatively large storage space for solid fuel having substantially the total cross-sectional area of the producer and a combustion space of relatively small cross sectional area, two superposed downwardly slanting partitions forming the bottom of said storage space and extending from the walls of the producer, said partitions terminating in vertically extending lips de-



fining the inner wall and fuel inlet to said combustion space, one of said partitions forming the roof of said combustion space and carrying conduit means therein for conveying the gas generated to the exterior of the producer.

---

**2,390,059**
**LIQUID FUEL BURNER**
**Ralph W. De Lancey, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut**
**Application January 1, 1943, Serial No. 470,960**
**13 Claims. (Cl. 158—91)**



1. In a liquid fuel burner, in combination, a constant level valve having a metering valve for delivering liquid fuel at a high rate for high fire or at a low rate for pilot operation, a thermostat for operating the metering valve, a remote controlled heater for the thermostat, an annular vaporizer into which the fuel flows by gravity to form an annular pool, a concentric perforated sleeve above the periphery of the vaporizer, a central air distributor having openings for directing air downwardly into the vaporizer, means for supplying air under positive pressure to the outside of the sleeve and to the inside of the central air distributor, a shutter for controlling the air flowing from the central air distributor to the vaporizer, a second thermostat for operating the shutter, and a second heater energized concurrently with the first, the second thermostat acting to move the shutter to increase the flow of air to the vaporizer in timed relation with the shifting of the metering valve to pilot position.

---

**2,390,060**
**RAZOR RACK**
**Charles E. Dunham, Los Angeles, Calif.**
**Application July 22, 1944, Serial No. 546,130**
**5 Claims. (Cl. 248—300)**

1. A support for articles having a handle secured to the under face of a plate-like head having a straight downwardly turned edge which edge is spaced from the handle, comprising: a top section adapted to be mounted on a wall or other vertical surface, said top section having a front portion and a back portion hingedly connected along a line extending substantially



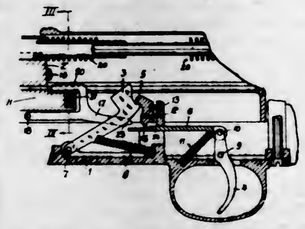
parallel to and spaced from the front edge of the top section sufficiently to insure that the down-turned edge of the head of the article to be supported engages against the said front por-



tion; and a front wall extending downwardly from and connected to the front edge of the top section and mounted upon said wall in spaced relation to the line of support on the wall of said top section.

---

**2,390,061**
**DISCONNECTOR MEANS IN SELF-CHARGING FIREARMS**
**Hans Erik Eklund, Malmo, Sweden, assignor to Aktiebolaget J. C. Ljungman, Malmo, Sweden, a corporation of Sweden**
**Application May 24, 1943, Serial No. 488,218**
**In Sweden March 9, 1942**
**1 Claim. (Cl. 42—3)**

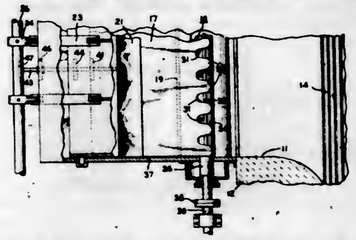


In a firearm, a reciprocating breech block, a hammer, a sear adapted to latch said hammer in cocked position, a trigger, means pivotally mounting said trigger in said firearm, a trigger link pivotally connected to said trigger and movable substantially longitudinally by said trigger to actuate said sear to release said hammer, a pivotally mounted arm actuated by said breech block when displaced from firing position to depress said arm to engage said trigger link and move the same out of position to actuate said sear and a projection on said arm moved upon depression of said arm into position to block movement of said trigger link by the trigger whereby the trigger cannot be pulled unless the breech block is in closed position.

---

**2,390,062**
**SPREADER STOKER MECHANISM**
**Ralph T. French, Upper Darby, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 30, 1943, Serial No. 492,833**
**5 Claims. (Cl. 110—115)**

1. In a stoker, fuel-feeding mechanism comprising a hopper; an overfeed impeller adapted to rotate about a horizontal axis; a spill plate positioned with its rear discharge edge overlying the impeller and parallel to the axis of rotation thereof; means for moving fuel from the hopper rearwardly over the spill plate to the impeller, the rear discharge edge of the spill plate being transversely corrugated to provide a zone of discharge therefrom to the impeller which zone extends in a front to rear direction a distance equal to the depth of the corrugations, and means for adjusting the position of the spill plate rear dis-



charge edge forwardly and rearwardly with respect to the axis of rotation of the impeller, whereby the zone of fuel delivery to the impeller may be correspondingly varied.

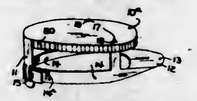
---

**2,390,063**
**PROCESS FOR THE PREPARATION OF PRODUCTS FROM LIGNIN BY HYDROGENATION**
**Karl Freudenberg and Willy Lautsch, Heidelberg, Germany; vested in the Alien Property Custodian**
**No Drawing. Original application July 29, 1940, Serial No. 348,079½. Divided and this application September 19, 1940, Serial No. 357,498. In Germany July 29, 1939**
**6 Claims. (Cl. 260—124)**

1. A non-catalytic process for the hydrogenation of a material selected from the group consisting of sodium salts of lignin obtained from waste liquors of the sulphite pulp process and sodium salts of lignin obtained from waste liquors of the sulphate pulp process, which comprises reacting the said material under pressure with hydrogen in an aqueous alkaline medium, at a temperature of the order of 250° C. to 420° C., the introduction pressure of the hydrogen ranging from 30 to 120 atmospheres and recovering the reaction products.

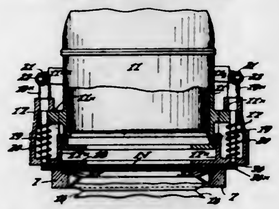
---

**2,390,064**
**PAPER HAT**
**Irving Gardner, Brooklyn, N. Y.**
**Application September 30, 1944, Serial No. 556,549**
**7 Claims. (Cl. 2—195)**



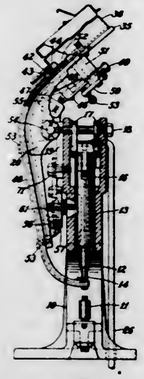
7. A paper hat, comprising a top sheet having a downwardly extending strip portion at its back, and a bottom sheet having a sun shield front portion with side strips bent downwards and extending around the sides to the back and coengaged in overlapping relation with said downwardly extending strip portion, said side strips having upwardly extending strip portions, releasably connected with said top sheet, said top sheet having a flange portion bent downwardly around its edge, and a strand laced through slots in said flange portion, said downwardly extending strip portion of said top sheet being provided with slots through which said strand is also laced, and said strand being securely fastened at one point into a bow.

2,390,065
**PHOTOGRAPHIC CAMERA-ENLARGER**
Joseph Gelb, New York, N. Y.
Application July 14, 1942, Serial No. 450,875
4 Claims. (Cl. 88—24)



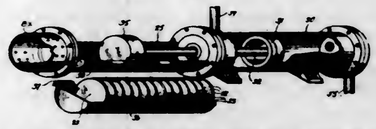
1. In a device of the character described, a lamp house, a negative support, and a condenser housing, a negative pressure plate above the negative support, spiral spring pressure means directly engaging and bearing upon the plate, and manually operated means for moving the plate against the action of the spring pressure means, the pressure plate being a ring-shaped member formed with an inner upwardly directed guiding flange, a condenser casing below the lamp house and serving as a guide for cooperation with said flange, bosses carried by the pressure plate and formed with vertical passageways, ears projecting from the condenser casing and entering said passageways, rods connected to the pressure plate and each projecting through one of said ears and the appropriate boss, a spring intermediate each ear and the pressure plate, the lever having areas each connected to one of said rods.

2,390,066
**RACEWAY CLEARING DEVICE**
Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application May 23, 1942, Serial No. 444,221. Divided and this application December 15, 1943, Serial No. 514,361
3 Claims. (Cl. 218—15.1)



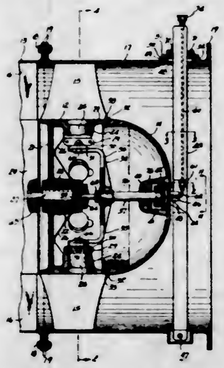
1. In a machine for affixing articles, a hopper having a bottom wall and an emission port through which only articles lying in a certain position on said wall may pass one at a time, a pusher arranged to engage and arrest an incorrectly positioned article obstructing said port but to pass over and miss an article correctly lodged in the port, and means for operating said pusher to repel an obstructing article from said port.

2,390,067
**APPARATUS FOR PREPARATION OF CARBON**
Worth C. Goss, Seattle, Wash., assignor to William A. Carlisle, Sr., Seattle, Wash.
Application August 22, 1942, Serial No. 455,818
7 Claims. (Cl. 202—110)



1. A briquette carbonizing means comprising a furnace chamber, a carbonizing tube extended through the chamber, means for heating the tube within the chamber for the carbonization of briquettes therein, a pressure charging means at one end of the tube whereby briquettes may be loaded into the tube and the charge progressively advanced under pressure along the tube as a continuous column and an abutment means at the discharge end of the tube normally resisting the advancement of the column by the pressure means for the compression of the briquettes in the column, and means for periodically retracting the abutment for the discharge of briquettes from the tube under influence of the pressure means.

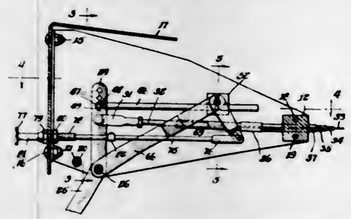
2,390,068
**ADJUSTABLE PITCH PROPELLER MECHANISM**
Thomas O. Adams, Jr., and Theodor H. Troller, New Philadelphia, Ohio, assignors to La-Del Conveyor & Manufacturing Company, a corporation of Ohio
Application December 11, 1942, Serial No. 468,678
16 Claims. (Cl. 230—114)



1. In combination with a main shaft supported by a bearing, said main shaft having a driving extension overhanging said bearing, the improvement of a variable pitch fan carried by said overhanging driving extension of the main shaft and comprising, in combination, a hub mounted on said overhanging driving extension of the main shaft, a rim spaced radially from the hub, outwardly extending connection means connecting the rim to the hub, said rim having a forward edge portion, a nose-like cover secured forwardly of the rim and substantially meeting the forward edge portion of the rim, fan blades rotatively mounted in the rim, each of said fan blades having a blade portion extending outwardly from the rim and having a shank portion extending inwardly of the rim, said shank portions being disposed in the rim on the side of the outwardly extending connection means which is opposite from the bearing, a plurality of crank arms disposed inwardly of the rim and connected respectively to said shank portions for rotatively positioning the fan blades at variable pitch angles, a spider arranged for reciprocal movement in a longitudinal direction axially of the main shaft and having outwardly extending portions connected respectively to the crank arms for rotating the blades incident to said reciprocal movement, a reciprocally movable control shaft having a first end portion and a second end portion with an intermediate portion therebetween for supporting the spider, first bearing means carried by the main shaft for supporting the first end portion of the control shaft, second bearing means carried by the nose-like cover for supporting the second end portion of the control shaft, said bearing means and said control shaft supporting the spider substantially concentric about a line passing through the longitudinal axis of the main shaft, said spider being both longitudinally and rotatively movable with respect to said driving extension, whereby said spider has two degrees of freedom with reference to the main shaft, and means for reciprocally actuating the said control shaft and the spider for rotatively positioning the fan blades at variable pitch angles said outwardly extending portions of the spider terminating at radially spaced distances from the crank arms and permitting freedom of radial movement therebetween upon the said centering of the spider substantially concentric about a line passing through the longitudinal axis of the main shaft.



2,390,069
**CONTROL MECHANISM**
Charles A. Arens, Chicago, Ill., assignor to Arens Controls, Inc., Chicago, Ill., a corporation of Illinois
Application February 23, 1942, Serial No. 431,928
11 Claims. (Cl. 74—531)



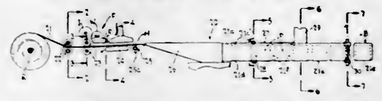
1. A control mechanism comprising a pivotally mounted control lever, said lever being manually shiftable and limited for movement through an arc of travel of less than 360 degrees and adapted to be connected to a device to be controlled, and means for controlling resistance to movement of said lever comprising friction brake means operatively connected to the lever, a pair of complementary cam reactance devices relatively shiftable for energizing said brake means, a manually operable control handle for relatively shifting said reactance devices, a frame structure having a pair of laterally spaced side plates embracing the control mechanism, and screw threaded means engageable with opposite faces of said plates for predetermining the effectiveness of said cam reactance devices.

2,390,070
**ADHESION PREVENTING AGENT FOR CATHETERS AND THE LIKE**
John M. Auzin, Warwick, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Original application May 31, 1941, Serial No. 395,981. Divided and this application August 24, 1943, Serial No. 499,863
3 Claims. (Cl. 18—58)



1. An adhesion preventing material for the manufacture of rubber goods, comprising a mixture of bromine solution and a neutral powder which is inert to and does not react with rubber.

2,390,071
**INFUSION PACKAGE MANUFACTURE**
Louis Barnett, Brooklyn, N. Y., assignor to National Urn Bag Company, Inc., Long Island City, N. Y., a corporation of New York
Application October 9, 1941, Serial No. 414,332
11 Claims. (Cl. 93—3)



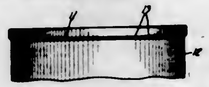
1. An infusion package manufacturing apparatus comprising means for feeding a traveling filter sheet layer web continuously therethrough, means for perforating said web at spaced distances therealong, means for depositing and "partially fusing" a thermosetting lamina in configuration to form successive pockets on the moving web in a fixed aligned relation with respect to the web perforations, means for forming pockets with permanently heat sealed seam joints from said lamina and with filtering surfaces free from said lamina, means for filling said pockets with an essence containing product, and means for permanently closure heat sealing said product in the pockets and for severing a sealed unit including a filled pocket to provide a package of the character described, portions of said web feeding means including means coacting with said web perforations for controlling the position of the portion of the moving web with said lamina to register the pockets in proper alignment and in timed relation with respect to said filling means during the effective operation thereof.

2,390,072

## METHOD OF PRODUCING A POTENTIAL OPENING IN A FIBER CONTAINER OR OTHER FIBER ARTICLES

Robert G. Beaton, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application March 18, 1944, Serial No. 527,114
4 Claims. (Cl. 164—125)



1. A method of forming a potential opening in an imperforate wall section of a fiber article, which comprises subjecting a localized area of said wall section to high pressure to compress and compact the material within the localized area so as to break down and displace the fibrous structure of the material into a weakened reduced thickness area of hard brittle substance capable of disintegrating into a granular condition when punctured to thereby provide an opening having a clean cut edge in said wall section of said article.

---

2,390,073

## HAIR TREATMENT

Jose B. Calva, St. Paul, Minn.

No Drawing. Application February 28, 1941, Serial No. 381,135
11 Claims. (Cl. 167—87.1)

1. The process of establishing a desired configuration in growing hair on living beings which comprises wetting the hair with an aqueous solution containing 3% to 30% of a compound selected from the group consisting of formaldehyde and formaldehyde yielding substances; and 1½% to 30% of an ionizable substance acting as a catalyst and establishing the pH of the solution in the range of 1 to 10, and then heating the hair to a temperature in the range of about 100° C. to 200° C. while maintaining the hair in the desired configuration.

---

2,390,074

## PROTEIN PRODUCT AND PROCESS

Edwin J. Cohn, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application February 9, 1942, Serial No. 430,075
22 Claims. (Cl. 260—122)

18. The method of fractionating proteins from blood plasma which involves cooling said plasma to a temperature in the neighborhood of 0° C. or lower, diffusing alcohol through a semi-permeable membrane into said plasma, while maintained at said temperature, separating the resulting protein precipitate, dialyzing additional alcohol into the remaining solution, removing the resulting precipitate, reducing the temperature of the plasma and separating subsequent protein fractions by dialyzing further amounts of alcohol into said plasma.

---

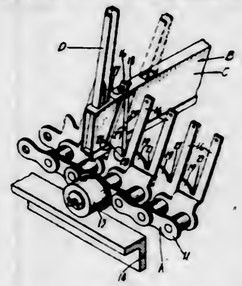
2,390,075

## CONVEYER FOR OVENS

George J. Dawn, Waukegan, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application September 2, 1944, Serial No. 552,506
3 Claims. (Cl. 198—134)

1. A conveyer for an oven for treating coated sheets, comprising in combination, a chain of links, each of said links having a lug for supporting a coated sheet on edge, a wicket mounted on each of said links for supporting said sheets in an upright position, and a guard on each of said wickets, said guards extending in telescop-



ing relation over the adjacent lugs on said chain for maintaining the sheets on the lugs, thereby preventing pinching of the sheets between the lugs when the chain passes around a curved path of travel.

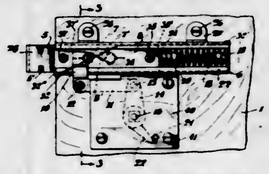
---

2,390,076

## LOCK, LATCH, AND THE LIKE

Erastus C. Deal, Wilkes-Barre, Pa., assignor to Deal Slide-Lock Devices, Inc., Bronx, N. Y., a corporation of New York

Application August 7, 1942, Serial No. 454,049
13 Claims. (Cl. 292—167)



1. In a door lock of the class described, the combination of a member adapted to move in a predetermined direction to secure and release a door, a pair of wedge members having opposed wedge surfaces, means responsive to the movement of said first member for moving said wedge members and means, including a flexible member extending between the wedge surfaces of said wedge members and having its ends fixed in position, for locking said wedge members against movement except in response to the movement of said first member.

---

2,390,077

## DRAWSTRING FOR TROUSER LEGS

Joseph De Grazia, Washington, D. C.

Application September 30, 1944, Serial No. 556,642
6 Claims. (Cl. 2—270)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a trouser leg provided with a hem at its bottom, a tape or the like mounted in the hem, means for securing the mid-portion of the tape



to the trouser leg at the hem portion, the two branches of the tape being threaded through the hem at the respective sides of the trouser leg, across the back and partly around the opposite side thereof, thence through the inner wall of the hem to the interior of the trouser leg.

---

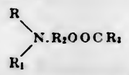
2,390,078

## PROCESS FOR BREAKING PETROLEUM EMULSIONS

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application June 26, 1944, Serial No. 542,223
5 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a basic esterified amino-alcohol of the formula:



in which R is a monovalent radical free from ether linkages and having at least 8 carbon atoms and not more than 32 carbon atoms and a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals and aralkyl hydrocarbon radicals; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxy polyglycol radicals in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene and methylpropylene; and $R_1$ is a monovalent radical and a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals, aralkyl hydrocarbon radicals having not more than 32 carbon atoms and the monovalent radical $HOR_2$, wherein $R_2$ has its prior significance; $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms.

---

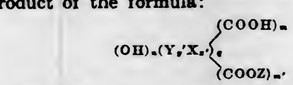
2,390,079

## PROCESS FOR BREAKING PETROLEUM EMULSIONS

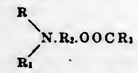
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application June 26, 1944, Serial No. 542,234
6 Claims. (Cl. 252—341)

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier, comprising a sub-resinous esterification product of the formula:



in which X is a polycarboxy acid radical selected from the class consisting of polycarboxy acids, anhydrides, monohydric alcohol esters and polyhydric alcohol esters, with the proviso that the alcohol radical of said esters be free from detergent-forming monocarboxy acid radicals, and $y'$ represents a whole number not greater than 3, and $x'$ represents a whole number not greater than 5, and $n$, $m$ and $m'$ indicate whole numbers from 0 to 40; $q$ indicates a whole number from 1 to 20; Z is a hydrogen ion equivalent; Y is the radical of a basic esterified amino-alcohol of the formula:



in which R is a monovalent radical free from ether linkages and having at least 8 carbon atoms and not more than 32 carbon atoms and being a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals, and aralkyl hydrocarbon radicals; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene, and methylpropylene; and $R_1$ is a monovalent radical and a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals and aralkyl hydrocarbon radicals having not more than 32 carbon atoms and the radical $HOR_2$, wherein $R_2$ has its prior significance; $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms; with the added proviso that at least one of the 3 radicals, $R_1$, $R_2$ and $R_3$ shall have present an alcoholic hydroxyl radical.

6. The process of claim 1, wherein the polybasic carboxy acid is citraconic acid and in which there is at least one alcoholic hydroxyl radical present as part of the radical $R_1$.

---

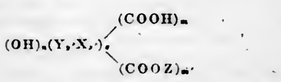
2,390,080

## PROCESS FOR BREAKING PETROLEUM EMULSIONS

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

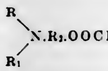
No Drawing. Application June 26, 1944, Serial No. 542,235
6 Claims. (Cl. 252—341)

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier, comprising a sub-resinous esterification product of the formula:



in which X is a polycarboxy acid fractional ester radical having ($a$) an unreacted carboxyl radical; and ($b$) a detergent-forming monocarboxy acid radical having at least 8 and not more than 32 carbon atoms; said detergent-forming acid radical being an integral part of a detergent-forming acid compound consisting of acids, monohydric alcohol esters and polyhydric alcohol esters; and $y'$ represents a whole number not greater than 3, and $x'$ represents a whole number not greater than 5, and $n$, $m$ and $m'$ indicate whole numbers from 0 to 40; $q$ indicates a whole number from 1 to 20; $z$ is a hydrogen ion equivalent; Y is the

radical of a basic esterified amino-alcohol of the formula:



in which R is a monovalent radical free from ether linkage and having at least 8 carbon atoms and not more than 32 carbon atoms and being a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals, and aralkyl hydrocarbon radicals; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene, and methylbutylene; and $R_1$ is a monovalent radical and a member of the class consisting of aliphatic hydrocarbon radicals, alicyclic hydrocarbon radicals and aralkyl hydrocarbon radicals having not more than 32 carbon atoms and the radical $HOR_2$, wherein $R_2$ has its prior significance; $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms; with the added proviso that at least one of the radicals, $R_1$, $R_2$ and $R_3$ shall have present an alcoholic hydroxyl radical.

---

**2,390,081**

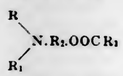
## PROCESS FOR BREAKING PETROLEUM EMULSIONS

**Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware**

**No Drawing. Application June 26, 1944, Serial No. 542,236**

**5 Claims. (Cl. 252—341)**

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a basic esterified ether-aminoalcohol of the formula:



in which R is an ether radical having as an integral part thereof a hydrocarbon radical containing not less than 8 carbon atoms and not more than 32 carbon atoms, and selected from the class consisting of alkyl radicals, alicyclic-alkyl radicals, and aralkyl radicals in which a carbon atom chain is interrupted at least once by an oxygen atom and at least one such carbon atom attached to an ethereal oxygen atom is an acyclic carbon atom; $R_1$ is a member of the class of radicals consisting of (*a*) the same radical as R without the lower limitation of 8 carbon atoms; (*b*) nonaryl hydrocarbon radicals having 7 carbon atoms or less and in turn selected from the group of alkyl radicals, aralkyl radicals and alicyclic radicals; (*c*) hydroxyalkyl radicals and hydroxyalkoxy radicals in which the alkylene radical contains less than 8 carbon atoms; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals, in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene and methylbutylene, and $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms.

---

**2,390,082**

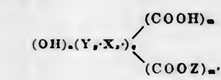
## PROCESS FOR BREAKING PETROLEUM EMULSIONS

**Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware**

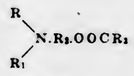
**No Drawing. Application June 26, 1944, Serial No. 542,237**

**6 Claims. (Cl. 252—341)**

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier, comprising a sub-resinous esterification product of the formula:



in which X is a polycarboxy acid radical selected from the class consisting of polycarboxy acids, anhydrides, monohydric alcohol esters and polyhydric alcohol esters, with the proviso that the alcohol radical of said esters be free from detergent-forming monocarboxy acid radicals, and *y'* represents a whole number not greater than 3, and *x'* represents a whole number not greater than 5, and *n*, *m* and *m'* indicate whole numbers from 0 to 40; *q* indicates a whole number from 1 to 20; Z is a hydrogen ion equivalent; Y is the radical of a basic esterified ether aminoalcohol of the formula:



in which R is an ether radical having as an integral part thereof a hydrocarbon radical containing 8 carbon atoms and not more than 32 carbon atoms, and selected from the class consisting of alkyl radicals, alicyclic-alkyl radicals, and aralkyl radicals, in which a carbon atom chain is interrupted at least once by an oxygen atom and at least one such carbon atom attached to an ethereal oxygen atom is an acyclic carbon atom; $R_1$ is a member of the class of radicals consisting of (*a*) the same radical as R without the lower limitation of 8 carbon atoms; (*b*) nonaryl hydrocarbon radicals having 7 carbon atoms or less, and in turn, selected from the group of alkyl radicals, aralkyl radicals and alicyclic radicals; (*c*) hydroxyalkyl radicals and hydroxy-alkoxy radicals, in which the alkylene radical contains less than 8 carbon atoms; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals, in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene and methylbutylene, and $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms; with the added proviso that at least 1 of the 3 radicals, $R_1$, $R_2$ and $R_3$ shall have present an alcoholic hydroxyl radical.



**2,390,083**

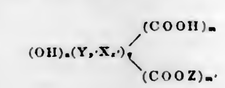
## PROCESS FOR BREAKING PETROLEUM EMULSIONS

**Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware**

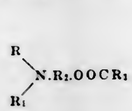
**No Drawing. Application June 26, 1944, Serial No. 542,238**

**6 Claims. (Cl. 252—341)**

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier, comprising a sub-resinous esterification product of the formula:



in which X is a polycarboxy acid fractional ester radical having (*a*) an unreacted carboxyl radical, and (*b*) a detergent-forming monocarboxy acid radical having at least 8 and not more than 32 carbon atoms, said detergent-forming acid radical being an integral part of a detergent-forming acid compound of the class consisting of acids, monohydric alcohol esters and polyhydric alcohol esters; and *y'* represents a whole number not greater than 3; and *x'* represents a whole number not greater than 5; and *n*, *m*, and *m'* indicate whole numbers from 0 to 40; *q* indicates a whole number from 1 to 20; Z is a hydrogen ion equivalent; Y is the radical of a basic esterified amino-alcohol of the formula:



in which R is an ether radical having as an integral part thereof a hydrocarbon radical containing 8 carbon atoms and not more than 32 carbon atoms, and selected from the class consisting of alkyl radicals, alicyclic-alkyl radicals, and aralkyl radicals, in which a carbon atom chain is interrupted at least once by an oxygen atom and at least one such carbon atom attached to an ethereal oxygen atom is an acyclic carbon atom; $R_1$ is a member of the class of radicals consisting of (*a*) the same radical as R without the lower limitation of 8 carbon atoms; (*b*) nonaryl hydrocarbon radicals having 7 carbon atoms or less, and in turn, selected from the group of alkyl radicals, aralkyl radicals and alicyclic radicals; (*c*) hydroxyalkyl radicals and hydroxyalkoxy radicals, in which the alkylene radical contains less than 8 carbon atoms; $R_2$ is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals, in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene, and methylbutylene, and $R_3CO$ is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms; with the added proviso that at least one of the 3 radicals, $R_1$, $R_2$ and $R_3$ shall have present an alcoholic hydroxyl radical.

---

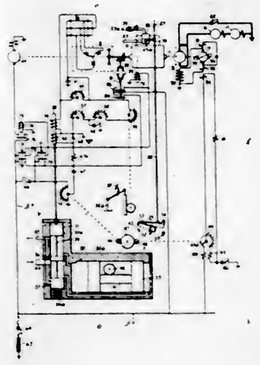
**2,390,084**

## REGULATING APPARATUS

**Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**

**Application March 25, 1944, Serial No. 528,122**

**30 Claims. (Cl. 60—97)**

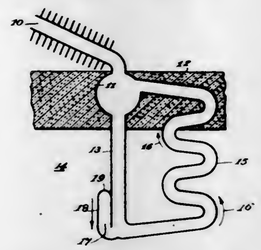


1. In a regulating apparatus for a prime mover having a throttle valve, a fluid pressure motor connected to actuate said throttle valve, a movable fluid control valve responsive to the speed of said prime mover for controlling said fluid motor, and means transiently responsive to movement of said fluid motor for transiently opposing movement of said control valve.

19. In a regulating apparatus for a prime mover having a throttle valve movable between idling and fully open positions, a reversible fluid pressure motor connected to actuate said throttle valve, a fluid control valve biased to a position to maintain said fluid motor in a position fully to open said throttle valve, electromagnetic means responsive to the speed of said prime mover for moving said control valve against its bias and effecting regulation of said valve about a balanced midposition, means for cranking said engine, and means operable in conjunction with said cranking means for forcibly moving said control valve against its bias to a position to maintain said throttle valve in said idling position.

29. In a governing system for a plurality of prime movers connected to supply power in parallel load relation, a throttle valve associated with each of said prime movers, a fluid pressure motor connected to actuate each of said throttle valves, a movable fluid control valve associated with each of said fluid motors, means for biasing each of said control valves to effect operation of the associated fluid motor in one direction, electromagnetic means including an actuating winding for moving each of said control valves against its bias to effect operation of the associated fluid motor in the opposite direction, means for energizing each of said actuating windings in accordance with the speed of the prime mover associated therewith, said actuating windings carrying equal currents and holding the associated control valve in a balanced mid-position when the connected prime mover is running at a predetermined desired speed, and means responsive to a difference of the currents in said actuating windings for simultaneously controlling all of said control valves to stabilize the distribution of load upon the said prime movers.

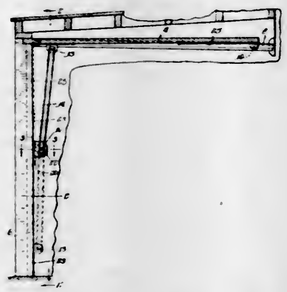
**2,390,085**
**REFRIGERATION**
**Nils Eriand af Kleen, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J., a corporation of Delaware**
**Original application February 9, 1940, Serial No. 318,148. Divided and this application May 4, 1943, Serial No. 485,598. In Great Britain August 3, 1939**
**4 Claims. (Cl. 62—126)**



4. In refrigerating apparatus; a receptacle adapted to be supplied with refrigerant liquid, a down-pipe connected for the gravity flow of refrigerant liquid from the bottom of said receptacle, an upwardly extending evaporator coil in open fluid communication at its lower end with the lower portion of said down-pipe and in open communication at its upper end with the upper portion of said receptacle, and an upwardly extending conduit closed at its upper end and in open communication at its lower end with the lower portion of said down-pipe, said conduit being constructed and arranged to provide an auxiliary zone of evaporation exteriorly of said evaporator coil, the lower open end of said conduit being sealed by liquid in said down-pipe, and the vapor formed in said conduit periodically breaking the seal to pass as a volume of free vapor into said evaporator coil.

---

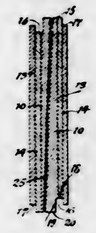
**2,390,086**
**CLOSURE OPERATING MECHANISM**
**William D. Ferris, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois**
**Application September 8, 1941, Serial No. 410,029**
**5 Claims. (Cl. 20—19)**



2. In combination with an enclosure having a frame forming a door opening, and a rigid door therefor adapted in closed position to be disposed substantially vertically with respect to the opening and to swing to an overhead substantially horizontal open position, together with means forming a pair of spaced stationary supports disposed to the rear of the door when in closed position, a device for raising the door comprising an arm pivotally mounted on each one of said stationary supports, the outer end of the arm being pivotally connected to a lower side face portion of the door, and spring means concentrically surrounding the pivotal axis of said arm, one portion of said spring operating on said arm tending arcuately to turn it, and a remote portion of said spring having a stationary anchorage.

---

**2,390,087**
**SHEATHING UNIT**
**Carl J. Fink, Buffalo, N. Y., assignor to Creo-Dipt Company, Inc., North Tonawanda, N. Y., a corporation of New York**
**Application May 10, 1944, Serial No. 534,900**
**1 Claim. (Cl. 20—5)**



The hereindescribed method of making sheathing units which comprises assembling a blank to form a central body board and two backing boards on opposite sides of the body board and each backing board containing a plurality of plies in which the grains in adjacent plies run at an angle to one another, forming longitudinal rabbets on two of the diagonally opposite longitudinal corners on the opposite edges of the blank and two longitudinal grooves on opposite edges of the blank adjacent to the other two diagonally opposite corners thereof, and cutting said body board diagonally so as to divide the same into two body sections each of which is thick at one end and contains one of said grooves and thin at its opposite edge and forms a tenon thereon adjacent to the respective rabbet.

---

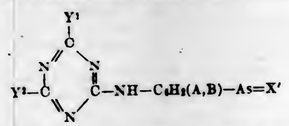
**2,390,088**
**ENTERIC GELATIN CAPSULE SHELL OR ENVELOPE**
**Sereck H. Fox, Birmingham, and Laurene Paterson Opferman, Detroit, Mich., assignors to Gelatin Products Corporation, Detroit, Mich., a corporation of Michigan**
**No Drawing. Application September 24, 1942, Serial No. 459,598**
**4 Claims. (Cl. 167—82)**

1. A content material surrounded by a tanned gelatin envelope which has dispersed throughout a sufficient amount of an alkali metal salt of cellulose acetate phthalate to render the envelope responsive to the action of the intestinal secretions to release the content substance while resisting dissolution in the acid stomach secretions.



**2,390,089**
**SUBSTITUTED 1,3,5-TRIAZINYL-(6)-AMINO-PHENYL-ARSENIC COMPOUNDS**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application June 3, 1944, Serial No. 538,694**
**8 Claims. (Cl. 260—242)**

1. 1,3,5-triazine derivative of the formula

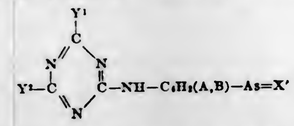


wherein at least one of $Y^1$ and $Y^2$ is an amino radical, while the other is selected from the group consisting of halogen radicals and amino radicals; $C_6$ represents a benzene ring, and A and B are amino radicals, and X' is a divalent radical selected from the group consisting of O, S, and dihalides.

---

**2,390,090**
**SUBSTITUTED 1,3,5-TRIAZINYL-(6)-AMINO-PHENYL-ARSENIC COMPOUNDS**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application June 3, 1944, Serial No. 538,695**
**9 Claims. (Cl. 260—242)**

1. A 1,3,5-triazine derivative of the formula

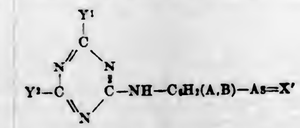


wherein one of $Y^1$ and $Y^2$ is an amino radical, while the other is selected from the group consisting of halogen radicals and amino radicals; $C_6$ represents a benzene ring, one of A and B is an amino radical, while the other is selected from the group consisting of hydrogen, halogen, —OH, —O-alkyl, —O-acyl, and alkyl radicals; X' is a divalent radical selected from the group consisting of O, S and dihalides.

---

**2,390,091**
**SUBSTITUTED 1,3,5-TRIAZINYL-(6)-AMINO-PHENYL-ARSENIC COMPOUNDS**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application June 3, 1944, Serial No. 538,696**
**8 Claims. (Cl. 260—242)**

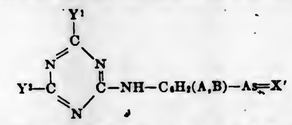
1. A 1,3,5-triazine derivative of the formula



wherein $Y^1$ and $Y^2$ each represent a halogen, $C_6$ represents a benzene ring, one of A and B is selected from the group consisting of hydrogen, halogen, —OH, —O-alkyl, —O-acyl and alkyl radicals, while the other is selected from the group consisting of hydrogen, halogen, —OH, —O-alkyl, —O-acyl, alkyl, and amino radicals, and X' is a divalent radical selected from the group consisting of O, S, and dihalides.

**2,390,092**
**SUBSTITUTED 1,3,5-TRIAZINYL-(6)-AMINO-PHENYL-ARSENIC COMPOUNDS**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application June 3, 1944, Serial No. 538,697**
**7 Claims. (Cl. 260—242)**

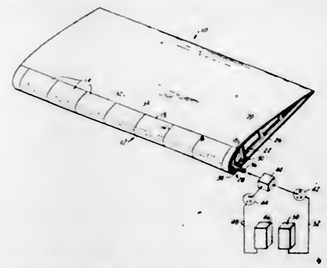
1. A 1,3,5-triazine derivative of the formula



wherein $Y^1$ and $Y^2$ each represent a halogen, $C_6$ is a benzene ring, A and B are amino radicals, and X' is a divalent radical selected from the group consisting of O, S, and dihalides.

---

**2,390,093**
**AIRPLANE WING DEICING MEANS**
**Murray Ed Garrison, Dayton, Ohio**
**Application March 16, 1944, Serial No. 526,796**
**8 Claims. (Cl. 244—134)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



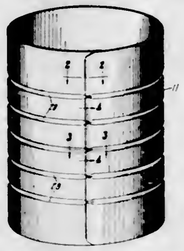
1. In an airfoil, a rigid outer wall at the leading edge composed of a sheet of smooth porous metal, a second wall of impervious material in back of the outer wall forming an enclosure between the two said walls, and means for forcing a mixture consisting of a gaseous medium, and finely divided de-icing fluid under pressure into said enclosure.

---

**2,390,094**
**CONTAINER**
**Nelson Geertsen, Chicago, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey**
**Application July 28, 1943, Serial No. 496,489**
**2 Claims. (Cl. 220—81)**

1. A soldered reenforced sheet metal can body, comprising a tubular body wall, a side seam extending longitudinally of said body wall and including interlocked marginal inside and outside hooked edges of said wall arranged as a plurality of layers of metal within the seam, a continuous reenforcing surrounding annular bead formed in said body wall to form a trough therein, said bead adjacent said side seam merging into connecting flattened bead sections in the hooks of said wall and forming shallow troughs on both sections of the inside hook and communicating shallow troughs in both sections of the outside hook, said shallow troughs communicating with said

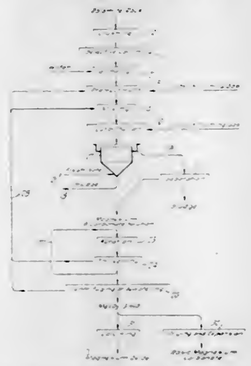
first mentioned trough and setting off a continuous circuitous vent opening through the seam transversely thereof from the outside to the in-



side of the can body for venting the seam during a soldering operation, and solder filling said openings.

---

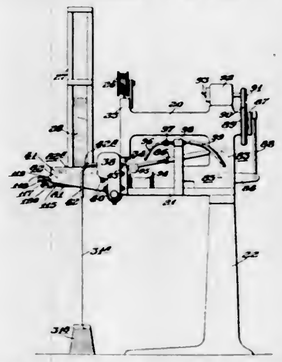
**2,390,095**
**PROCESS FOR MANUFACTURE OF MAGNESIUM PRODUCTS**
**Gunter H. Gloss, Redwood City, Calif., assignor to Marine Magnesium Products Corporation, South San Francisco, Calif., a corporation of Delaware**
**Application September 8, 1942, Serial No. 457,643**
**7 Claims. (Cl. 23—67)**



1. In a process for the manufacture of magnesium compounds wherein neutral magnesium carbonate is precipitated from a magnesium bicarbonate solution, the steps of continually supplying the solution to a retained quantity of the same, continually introducing a relatively inert gas into the solution to aerate the same, the rate of introduction of the gas being sufficient to cause removal of carbon dioxide from the solution with precipitation of neutral magnesium carbonate without causing violent agitation, continually removing a suspension of solid phase neutral magnesium carbonate of a desired average particle size from the quantity of solution undergoing treatment, and continually reintroducing solid phase neutral magnesium carbonate back into the solution undergoing treatment in substantial amounts sufficient to produce neutral magnesium carbonate of a desired average particle size and in an amount substantially greater than the amount of neutral magnesium carbonate freshly precipitated in the presence of the reintroduced neutral magnesium carbonate, said last named step serving to cause formation of relatively large sized particles of precipitated neutral magnesium carbonate and also causing a saving in the amount of inert gas required.

---

**2,390,096**
**MACHINE FOR APPLYING FASTENERS TO PAPER BOOKLETS**
**Otto Frederick Goepfert, Brevard, N. C., assignor to Champagne Paper Corporation, a corporation of North Carolina**
**Application June 22, 1943, Serial No. 491,810**
**15 Claims. (Cl. 1—2)**

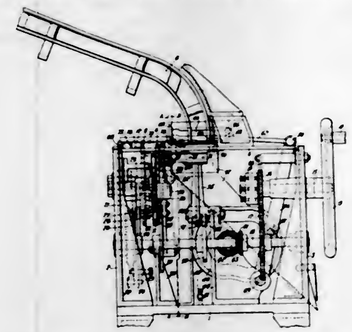


1. In a machine for applying closure-fastener-cords to cigarette paper booklet cover blanks of the character described, including a stapler element and means for feeding a plurality of booklet cover blanks in succession to a position for each to receive a staple from said stapler element, a cord feeder and cutter unit in cooperatively coordinated relation to said booklet cover blank feeding and positioning means and to said stapler element, said cord feeder and cutter unit comprising cooperatively paired feeder rollers operating under control of and in timed relation to the cover blank feeding means whereby to feed from a supply a string of cord of definite length with the forward end of the cord projected over the positioned booklet cover blank at the place where the staple from said stapler element is applied and whereby the applied staple secures the cord, so fed, to the underlying portion of the booklet cover blank, the cutting means of said cord feeder and cutter unit acting to sever from the supply string the said fed length of cord immediately as the same is stapled to the booklet cover blank.

---

**2,390,097**
**MACHINE FOR MANIPULATING BELTS OF CARTRIDGES FOR AUTOMATIC GUNS**
**Charles Thomas Hall and Richard William Harris, Deptford, London S. E. 8, England**
**Application November 30, 1942, Serial No. 467,394**
**In Great Britain December 16, 1941**
**11 Claims. (Cl. 86—48)**

1. In apparatus for replacing cartridges in a cartridge belt, the combination with an intermittently operated conveyor for imparting step by step movement in a predetermined path to a belt containing cartridges, of means for feeding replacement cartridges to a point adjacent said path, mechanism for engaging and removing a cartridge from the belt and transferring a replacement cartridge from said point to the vacated position in said belt, and means driving said con-



veyor and mechanism in such timed relation that said mechanism is operated to remove and replace a cartridge while the belt is stationary.

---



**2,390,098**
**PREPARATION OF LACTONITRILE ACETATE**
**Virgil L. Hansley and John E. Bristol, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application August 21, 1940, Serial No. 353,538**
**10 Claims. (Cl. 260—464)**

1. In a process for the production of lactonitrile acetate by reacting hydrocyanic acid with vinyl acetate in the presence of an alkaline catalyst, the step comprising adding acetaldehyde to the reaction mixture.

---

**2,390,099**
**CHEMICAL PROCESS**
**Jesse Harmon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application May 22, 1942, Serial No. 444,111**
**15 Claims. (Cl. 260—609)**

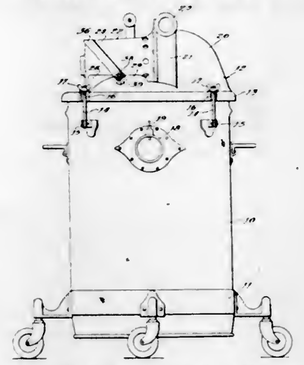
1. A process which comprises reacting ethylene and a sulfhydryl compound of the group consisting of hydrogen sulfide, methyl mercaptan, and ethyl mercaptan at a pressure of at least 500 atmospheres and a temperature of about 120° C. to 200° C.

---

**2,390,100**
**HYDROCARBON POLYMERIZATION**
**Everett C. Hughes, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio**
**No Drawing. Application October 24, 1941, Serial No. 416,389**
**14 Claims. (Cl. 260—683.15)**

9. A process of the character described, which comprises polymerizing an olefin at a temperature to obtain high yields of a polymer having a viscosity not greater than that of a lubricating oil, by contacting the olefin with 0.1 to 25 mol per cent boron fluoride as a catalyst while promoting the activity thereof with 0.05 to 5 mol per cent of a ferrous compound, the amount of said ferrous compound being less than the amount of said fluoride.

**2,390,101**
**SUCTION CLEANING APPARATUS**
**John P. Jason, Chicago, Ill., assignor to Breuer Electric Mfg. Co., Chicago, Ill., a corporation of Illinois**
**Application November 10, 1943, Serial No. 509,726**
**3 Claims. (Cl. 230—132)**



1. A cover or lid for a portable suction cleaning apparatus, said cover being adapted for removable application to a settling casing or tank having a suction inlet and being further adapted to horizontally support in operative association therewith and with said tank a portable suction producing mechanism of the class comprising a motor and encased fan having an axial suction inlet, said cover comprising an integrally formed elbow conduit rising therefrom and terminating in an annular flange extending in a vertical plane inwardly of the periphery of the cover, said flange being adapted to provide an abutment for said fan casing and to embrace its suction inlet to provide an enlarged communicating path thereto from said tank, a strap means for detachably connecting said suction producing mechanism to said cover by moving same downwardly against said cover and then axially to engage the suction inlet portion of the fan against the flange defining the outlet opening of said conduit.

---

**2,390,102**
**PRINTING INKS**
**Francis J. Jeuck, Chicago, and Charles A. Rietz, Park Ridge, Ill., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio**
**No Drawing. Application January 28, 1944, Serial No. 520,106**
**3 Claims. (Cl. 106—30)**

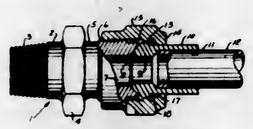
1. A typographic printing ink characterized by press-stability under humid conditions, combined with the ability to be set by the addition of water to the film of the ink, comprising essentially a solution of a petroleum hydrocarbon insoluble resin derived from pine wood in a water soluble polyglycol.

---

**2,390,103**
**UNION TUBE CONNECTION LOCKING NUT**
**William J. Johnson, Dayton, Ohio**
**Application March 8, 1943, Serial No. 478,458**
**3 Claims. (Cl. 285—122)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

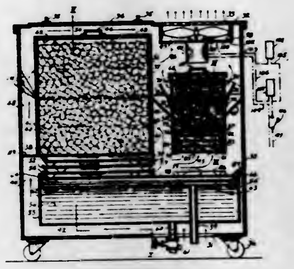
1. In a union coupling connection for a tubular conduit, said coupling connection including

an internally threaded union nut having an inwardly directed annular flange at one end thereof, and an element associated with the conduit for transmitting connection forces thereto, said element having a radially extending portion thereof of greater diameter than the inside diameter of said inwardly directed flange; the improvement which consists of positioning a circular split compressible spring lock washer between the inwardly directed flange on said union nut and the radially extending portion of said element, whereby when said lock washer is axially compressed in abutting engagement with the inwardly directed flange of the union nut said lock washer will cause high frictional resistance to rotation of said union nut relative to said element.



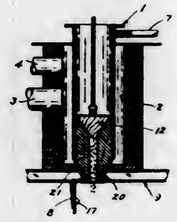
---

**2,390,104**
**COOLING AND DEHYDRATING APPARATUS**
**Hiram Joseph Kaufman, Detroit, Mich.**
**Application February 23, 1942, Serial No. 432,014**
**4 Claims. (Cl. 183—4.3)**



1. Apparatus for conditioning the air in an enclosed spaced by recirculation of air through the apparatus comprising a casing having an air inlet in the lower part thereof and having an air outlet in the upper part, means within the casing for forcing circulation of a stream of air from the space into the casing through the inlet opening and discharging the stream through the outlet opening, an ice container within the casing having openings for dripping discharge of water from melting ice, partition structure near the intake opening directing the air drawn into the casing through said intake opening through the dripping ice water, a dehydrant container for hygroscopic material within the casing, and partition walls within the casing dividing the air stream after passing through the dripping ice water and directing one division through the ice container in heat exchange relation with the ice in the container and the other division through the dehydrant container in contact with the hygroscopic material in the course of flow of the air to the discharge opening.

**2,390,105**
**METHOD AND APPARATUS FOR CONVERTING ORE**
**William C. Kirkpatrick, Alhambra, Calif., assignor to John R. Thompson and Wilma Thompson, both of Los Angeles, Calif.**
**Application July 4, 1944, Serial No. 543,497**
**9 Claims. (Cl. 75—0.5)**



1. The method of treating ore which forms a solidified mass when digested in a retort, which consists in displacing the ore during the digesting thereof in a retort to form a solidified column of digested ore having an axial bore therethrough, then removing particles of the digest progressively from one end of the column to the other and discharging such removed particles through the bore until the entire digest is removed from the retort.

6. In apparatus for treating ore, an upright retort open at its ends, a head removably mounted on and closing the upper end of the retort, a gate for opening and closing the lower end of the retort, means for introducing a charge of ore into the retort, means for subjecting the ore to digesting treatment which causes the ore to form a solidified digest, and a removable core in said retort extending axially through the charge and which when removed after the digest solidifies defines an opening through the solidified digest affording the gravitational discharge of the digest as particles of the latter are progressively removed from the upper end to the lower end of the solidified mass.

---

**2,390,106**
**PROCESS FOR PREPARING CARBOXYLIC ANHYDRIDES**
**Vernon K. Krieble, Hartford, Conn., and Robert H. Smellie, Oak Ridge, Tenn.**
**No Drawing. Application July 31, 1944, Serial No. 547,508**
**9 Claims. (Cl. 260—546)**

1. A process for preparing a carboxylic anhydride comprising reacting, under substantially anhydrous conditions, a monocarboxylic acid having a dissociation constant greater than that of formic acid with hydrogen cyanide and a hydrogen halide other than hydrogen iodide.

---

**2,390,107**
**PACKAGING MACHINE**
**Fred W. Kucklinsky, Newark, N. J., assignor to Esther M. Kucklinsky, Montclair, N. J.**
**Application August 28, 1941, Serial No. 408,593**
**2 Claims. (Cl. 93—6)**

1. In a machine for closing and sealing a rectangular carton having a closure flap extending from each of the four sides of the carton, a conveyor or carrier on which a carton is placed with three of the flaps manually folded in substantially the positions they will occupy in the completed closure, a pair of glue applying rollers, guides for turning one of the three flaps outward and directing it between said rollers whereby glue is applied to both sides of the flap, one of said guides cooperating with the other two of the three flaps to keep the contents in the carton, a portion on said one guide for folding the fourth flap outward at an angle to break the

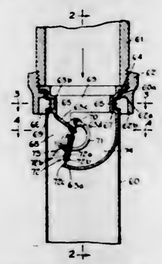




material along the fold line of said fourth flap, a guide having a helical edge and a straight edge for first folding the glued flap against the other two flaps and then holding it against said flaps, a curved guide for folding the fourth flap down against the exposed glued surface of the third flap while said third flap is being held by the aforesaid straight edge, and means on the conveyor or carrier for moving the carton through and past all of the aforesaid guides whereby to close and seal the carton.

---

**2,390,108**
**COMBINED CHECK VALVE AND VACUUM BREAKER**
**Jesse D. Langdon, Long Beach, Calif.**
**Original application October 16, 1941, Serial No. 415,165, now Patent No. 2,336,486, dated December 14, 1943. Divided and this application May 6, 1943, Serial No. 485,839½**
**10 Claims. (Cl. 137—69)**

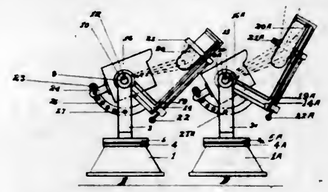


1. In combination, a tubular casing having a flange at one end and having vents adjacent said end, and a unitary check valve disposed within said tubular casing and removably supported therein by engagement with said casing flange; said check valve having at its outlet a pivotally mounted valve element including a rim portion engageable with the side wall of said casing between the outlet and the vents to preclude accidental discharge of fluid from said check valve through said vents.

---

**2,390,109**
**AIRPORT LANDING SIGNAL APPARATUS**
**August G. Liebmann, Washington, D. C., assignor of one-half to Harry A. Blessing, Washington, D. C.**
**Application October 20, 1942, Serial No. 462,772**
**3 Claims. (Cl. 177—352)**

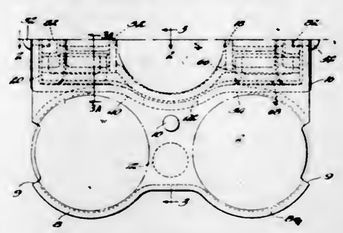
1. An airport landing signal for guiding airplanes, to the landing field, comprising a light source, a reflector, a projector for projecting a light from said source onto the reflector; the same being shaped to produce by reflection a beam of light having a voided interior and a high light exterior; means cooperating with the reflector adapted to alternately extend or curtail the reflected rays emanating therefrom; the said



means serving the dual purpose of rendering a blinking or rippling effect with respect to the visible light of the elevated end of the beam; means for mounting the said light source projector and reflector and means cooperating therewith for adjusting the beam laterally with respect to its horizontal base and vertically with respect to the horizon.

---

**2,390,110**
**SPRING GROUP**
**David M. Light, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**
**Application November 21, 1941, Serial No. 419,884**
**29 Claims. (Cl. 267—9)**



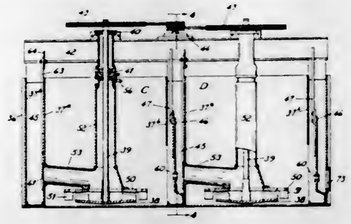
1. In a composite spring group, top and bottom spring plates, a plurality of coil springs confined therebetween, and a friction absorbing device comprising a housing seated on said bottom plate and having opposed friction surfaces at each end thereof, a pair of followers positioned in said housing, each comprising oppositely directed diagonal friction surfaces at each end thereof, resilient means between said housing and one of said followers, friction shoes in frictional engagement with respective surfaces, and means on the other of said followers cooperating with means on said housing to retain the device in normal assembled relationship.

---

**2,390,111**
**AERATING APPARATUS**
**Leland H. Logue, Denver, Colo., assignor to Mining Process and Patent Company, Denver, Colo., a corporation of Delaware**
**Application August 7, 1943, Serial No. 497,749**
**5 Claims. (Cl. 261—93)**

1. Aerating apparatus comprising a tank for fluent matter open to the atmosphere, a rotary

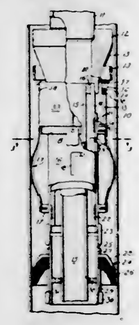
impeller in the lower portion of the tank, a cover member overhanging the impeller and having a central opening, a hollow column extending upwardly from the opening and sealing it from the atmosphere, a source of gas under constant pressure, means for delivering gas from the source into said column at a pressure less than the hydrostatic pressure of said body at the im-



peller, a feed delivery conduit having a discharge outlet in the hollow column above the central opening, and means for at least partially restricting the conduit to maintain a head of liquid over its intake opening, whereby feed discharged into said column forms a vortex in its passage into the central opening under the pumping action of the impeller and entrains the low-pressure gas in said movement.

---

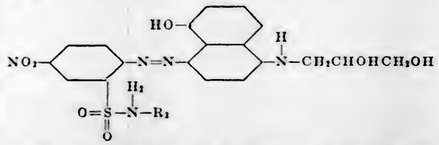
**2,390,112**
**WELL PACKER**
**Edgar W. McGaffey, Bakersfield, Calif., assignor of forty-five per cent to Claude C. Taylor, Long Beach, and ten per cent to D. W. Ward Huntington Park, Calif.**
**Application April 29, 1940, Serial No. 332,211**
**10 Claims. (Cl. 166—12)**



1. A well cementing device including a tubing extending to the surface; a pair of spaced tubes one within the other, said tubes being connected to said tubing and extending therebelow; means preventing flow through the annular space between said tubes; a slip mechanism on the device; means operating the slip mechanism including a sleeve on the outer tube; a packer surrounding the sleeve and ports in the outer tube and the sleeve below said flow preventing means but above the packer, said ports being in registry when said slip mechanism is in inoperative position.

**2,390,113**
**MONOAZO COMPOUNDS**
**James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application August 4, 1941, Serial No. 405,374**
**4 Claims. (Cl. 260—198)**

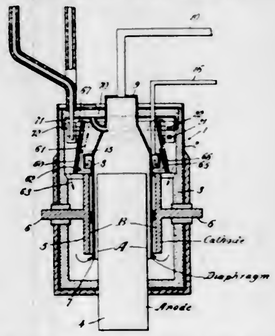
1. The azo compounds having the general formula



wherein $R_2$ and $R_3$ each represents a member selected from the group consisting of an alkyl group, a hydroxyalkyl group and an alkoxyalkyl group and $R_3$ may be in addition hydrogen.

---

**2,390,114**
**ELECTROLYSIS OF FUSED BATHS**
**Robert J. McNitt, Perth Amboy, N. J.**
**Application November 18, 1939, Serial No. 305,211**
**10 Claims. (Cl. 204—68)**




1. In the electrolysis of fused baths in a cell having a cathode, an anode, a diaphragm and a cathode stream of electrolyte circulating in the bath in the form of a loop, ascending between the cathode and diaphragm and descending on the opposite side of the cathode, the crest of the loop being above the cathode, the improved method which comprises removing by means of a heat exchange medium a very substantial quantity of heat from the upper portions of the descending cathode stream in the vicinity of the crest of the loop and preventing the ascending and descending portions of the stream from intermingling thereby increasing the density of the electrolyte in the descending part of the stream and facilitating its circulation.

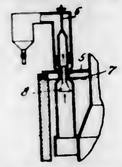
---

**2,390,115**
**APPARATUS FOR PURIFYING LIGHT METALS**
**Robert J. McNitt, Perth Amboy, N. J.**
**Application October 15, 1941, Serial No. 415,094**
**8 Claims. (Cl. 210—52.5)**

1. Apparatus for purifying a light metal recovered from a fused salt bath which comprises a



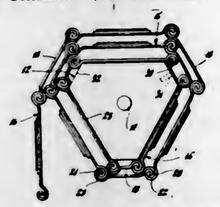
metal collecting hood submerged in the bath, a duct through which the metal rises due to its buoyancy upward from the hood to a receiver for the metal, a thermal barrier mounted in the duct



which decreases the cross-sectional area of the duct, and adjusting means for moving the thermal barrier upward or downward with respect to the upper surface of the bath.

---

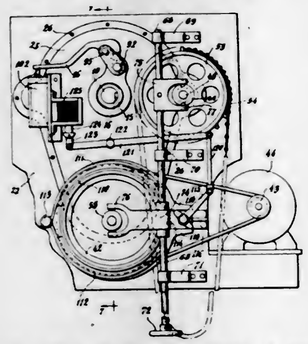
**2,390,116**
**ROLLING DOOR CONSTRUCTION**
**Nathan Michelman, Brooklyn, N. Y.**
**Application August 12, 1944, Serial No. 549,228**
**5 Claims. (Cl. 160—133)**



1. A rolling door comprising a rotatable polygonal drum and a flexible curtain adapted to be wound upon said drum, said curtain comprising a plurality of window-embodying units of uniform width and a plurality of sections alternating with said units, the width of said sections increasing with the distance of the sections from the axis of the drum when wound thereon, whereby, in the winding of the curtain upon the drum, the window-embodying units are caused to dispose themselves in parallelism with sides of the drum.

---

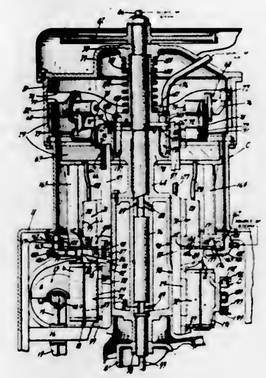
**2,390,117**
**ROLLING DOOR CONSTRUCTION**
**Nathan Michelman, Brooklyn, N. Y.**
**Application August 12, 1944, Serial No. 549,230**
**17 Claims. (Cl. 160—310)**



9. In a rolling door construction, a rotatable door shaft, a reversible electric motor, gear means operatively connectable to said electric motor for driving said door shaft in opposite directions, means for shutting off the motor, and means effective in the rotation of the door shaft in either direction to actuate said means for shutting off the motor upon completion of a predetermined number of revolutions of the door shaft and means automatically operative to brake the door shaft simultaneously with the actuation of the means for shutting off the motor.

---

**2,390,118**
**COATING MACHINE**
**John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey**
**Application September 11, 1942, Serial No. 458,021**
**10 Claims. (Cl. 91—53)**



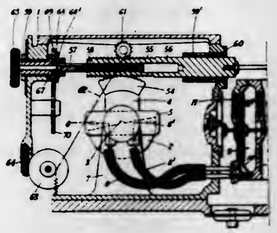
10. In a machine for coating fibre containers with liquid paraffin wax and the like, the combination of a plurality of head members arranged in positions for completely surrounding a freshly coated container, such arrangement forming a clearance opening through which the container is adapted to be passed, said head members having nozzle slots in their inner faces through which air under pressure is ejected against the container to remove excess coating material therefrom, and means disposed adjacent said head members for moving the container through the opening between the head members so that air under pressure impinges against all exterior surfaces of the container.

---

**2,390,119**
**CONTROL OR REGULATING SYSTEM EMPLOYING FLUID PRESSURE**
**Robert Hayes Nisbet, Stroud, and William George Harding, Whitton, England, assignors to Sperry Gyroscope Company Incorporated, Brooklyn, N. Y., a corporation of New York**
**Application October 2, 1941, Serial No. 413,317**
**In Great Britain December 23, 1940**
**2 Claims. (Cl. 244—78)**

1. In an automatic pilot for aircraft, the combination with a rudder and a hydraulic servo motor therefor, a position maintaining means, a dually controlled pneumatic controller having a primary and a follow-back control producing a signal upon displacement of said controller,

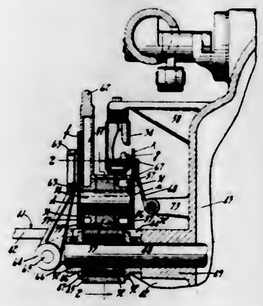
the primary control thereof being from said position maintaining means, a pneumatically controlled hydraulic relay valve actuated from said signal admitting throttled hydraulic pressure to said servo motor, a pressure repeat-back device connected to the follow-back control of said controller and constituting the sole follow-back be-



tween the servo and said controller, said repeat-back device comprising a spring centralized servo connected hydraulically to said relay valve in parallel with said main servo, whereby a pressure is produced in said main servo substantially proportional to the primary displacement of the controller.

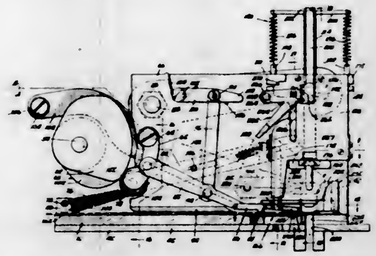
---

**2,390,120**
**CAN BODY MAKER**
**John F. Peters, Leonia, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey**
**Application September 12, 1942, Serial No. 458,099**
**4 Claims. (Cl. 93—52)**



1. In a can body forming machine, the combination of a horn for guiding a body blank having a wall portion projecting beyond the horn and adapted to be folded over the horn, feeding devices for propelling a blank along the horn, and a rotating folding roller disposed adjacent said horn in the path of the projecting wall portion of the moving blank for folding the wall part, said roller being rotated in time with the advancement of the blank along said horn and having a tapered cam shaped periphery which engages first the advancing edge of the projecting wall portion of the moving blank and thence progressively folds such wall portion by pressing it against the horn from projecting position into a position which is at an angle relative to the unfolded blank wall.

**2,390,121**
**METHOD AND MACHINE FOR ASSEMBLING WASHERS WITH SCREW-THREADED FASTENERS**
**Ouglesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**
**Application April 17, 1942, Serial No. 439,380**
**19 Claims. (Cl. 10—155.5)**
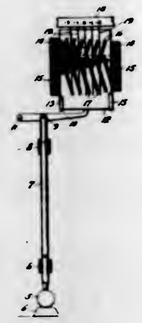


1. In a device for assembling screw elements with washers, a pair of screw receiving jaw members, a slide member on which said jaw members are mounted for movement from a screw receiving position to a screw discharging position to insert the screw in a washer at the discharging position, said jaw members being shiftably mounted on said slide member for movement toward each other into closed position to hold the screw, and away from each other to open position to release the screw, a guide for each jaw member situated along the path of movement of said jaw members as they are actuated by said slide member, said jaw members and guide being so constructed that the guide engages, closes, and retains said jaw members in closed position as said slide moves from its screw discharging position to its screw receiving position and back adjacent its screw discharging position, said construction of said jaw members and guide being such that said jaw members, at said screw discharging position, are free to open, means for actuating said slide, and means for moving said jaw members away from each other as they approach the screw discharging position.

---

**2,390,122**
**GAUGE**
**Walter P. Powers, Newark, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey**
**Application March 18, 1943, Serial No. 479,543**
**4 Claims. (Cl. 88—14)**

4. An instrument of the character disclosed, comprising companion light screens in closely superposed relation and relatively movable one over the face of the other, one of said screens being composed of two grids in edge-to-edge relation and the other screen consisting of a single grid overlying and cooperative with both the grids of the first mentioned screen, each of the three grids being composed of parallel opaque lines and intermediate clear spaces, with the lines of each grid all of substantially the same width and substantially uniformly spaced and with the lines and spaces of one of the two grids of the first mentioned screen inclined in respect to the lines and spaces of the other of said first mentioned two grids to cause portions of the lines and spaces of the single grid to coincide periodically at regularly recurrent intervals with portions of the lines and spaces of one of the other grids and at regularly recurrent intervals with the lines and spaces of the other remaining grid to form two contiguous optical grids meeting in edge-to-edge relation and composed of opposed, more widely spaced wider lines, and means for effecting rela-



tive shifting of said light screens one over the face of the other to produce magnified travel of said optical grids in substantially parallel relation and whereby a slight relative movement of said screens will effect a much greater movement of said opposed and parallel travelling optical grids.

---

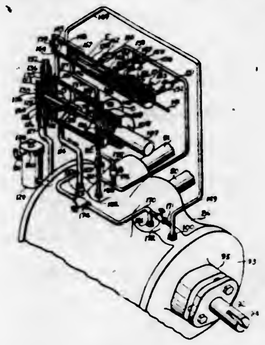
**2,390,123**
**PRINTING INKS AND VEHICLES THEREFOR**
**Charles A. Rietz, Park Ridge, and Francis J. Jeuck, Chicago, Ill., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio**
**No Drawing. Application July 22, 1942,**
**Serial No. 451,954**
**11 Claims. (Cl. 106—30)**

1. A typographic printing ink vehicle comprising a solution of a resin in a solvent therefor, which is substantially non-volatile at 70° F., but which evaporates rapidly when heated to temperatures of the order of 240° F., having a small percentage of a film-forming agent distributed in colloidal form therethrough, said small percentage of film-forming agent comprising from 0.5 to 6%, based on total vehicle weight, of material insoluble in the solvent and the resin solution at normal room temperatures, but becoming increasingly soluble as the resin concentration of the solution increases by removal of solvent, whereby the film obtained from the ink is further advanced in dryness by solution of the film-forming agent.

---

**2,390,124**
**SYSTEM OF PUMPING WELLS**
**James F. Ross, Laredo, Tex.**
**Application June 27, 1938, Serial No. 216,093**
**8 Claims. (Cl. 60—52)**

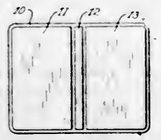
8. In a well pumping system for control of hydraulic pump jacks, a hydraulically operable reversing valve connected to said jacks to control the inlet and outlet of the actuating liquid so as to regulate the up and down strokes of the pump jack, a hydraulically operable pilot valve connected to said reversing valve to control a flow of liquid to actuate said reversing valve, a hydraulically operable power plunger supplying supplemental liquid to be controlled by said pilot



valve to actuate said reversing valve, and valve means operable to in turn control the flow of liquid from a source to actuate said pilot valve.

---

**2,390,125**
**BINDER CASE CONSTRUCTION FOR BOOKS**
**Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts**
**Application September 13, 1944, Serial No. 553,812**
**11 Claims. (Cl. 281—29)**



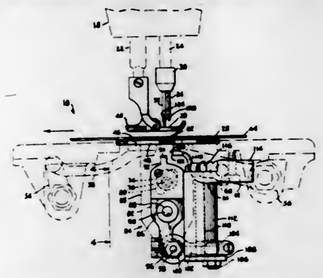
1. A binder case comprising an overall sheet of limp transparent thermoplastic material, cover and back panels in three separated sheets of self-sustaining flat opaque thermoplastic material made integral with said transparent sheet all as one plastic body, said transparent sheet providing a narrow bumper margin around the periphery of the area within which the opaque panels are enclosed.

---

**2,390,126**
**SEWING MACHINE**
**Joseph Schifter, New York, N. Y., assignor, by mesne assignments, to Columbia Blindstitch Machine Co., Inc., New York, N. Y., a corporation of New York**
**Application February 2, 1940, Serial No. 316,892**
**18 Claims. (Cl. 112—198)**

1. In combination, in a sewing machine, a base, a head extending from the base, a needle plate associated with the base, needles movable relatively to the head to cooperate with the needle plate, a drive in the head for the needles, a hook to engage a loop upon one needle and draw it in the direction of the other needle, a pusher for forcing the loop against the other needle, a shaft carried by the base and continuously rotated by said drive, a cam on one end of the

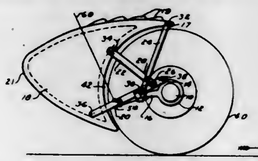
shaft, a crank carried by said shaft end for moving the hook into loop-engaging relation, and



means actuated by the cam for moving the pusher into loop-forcing relation.

---

**2,390,127**
**COMBINED FAIRING AND CHOCK FOR AIRCRAFT**
**Edward H. Schneckloth, Davenport, Iowa**
**Application August 30, 1944, Serial No. 551,943**
**4 Claims. (Cl. 244—110)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



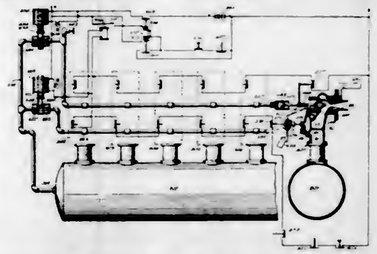
1. In an aircraft fixed landing gear of the type having a wheel, the improvement which comprises a member for streamlining said wheel, means hingedly connecting said member to said landing gear, and means for swinging said member on said hinge axis to a position in back of said wheel to serve as a fairing and to a position in front of said wheel to serve as a chock, the hinge axis being so located with respect to the wheel axis that when the member is in the fairing position it is slightly spaced apart from said wheel and in the chock position is against the wheel.

---

**2,390,128**
**AIR BLAST CIRCUIT BREAKER AND CONTROL THEREFOR**
**William M. Scott, Jr., Bryn Mawr, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Original application December 21, 1940, Serial No. 371,092. Divided and this application February 28, 1942, Serial No. 432,774**
**38 Claims. (Cl. 175—363)**

2. In electrical switching apparatus for a polyphase mercury arc rectifier, individual circuit breaker elements in each anode circuit thereof, control means operative upon the occurrence of a fault in an anode circuit to cause the instantaneous disengagement of the contacts of the associated circuit breaker element, and means controlled by the operation of said single pole breaker for causing the disengagement of the contacts of all of said elements to isolate said rectifier.

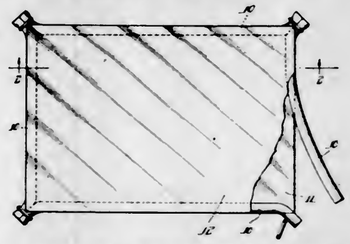
3. In electrical switching apparatus for a polyphase mercury arc rectifier, individual circuit breaker elements in each anode circuit thereof, automatic means operative upon the occurrence of a fault in an anode circuit for instantaneously separating and reengaging the contacts of the associated circuit breaker element, said contacts



remaining in said engaged position if said fault is cleared, and opening and reclosing repeatedly if said fault remains, and means for disengaging the contacts of all of said breakers when said contacts have opened and declosed a predetermined number of times, said last mentioned means comprising a counting device controlled by said automatic means.

---

**2,390,129**
**CASTING APPARATUS AND METHOD**
**Samuel M. Shobert, Flourtown, Pa., assignor, by mesne assignments, to Marco Chemicals, Inc., Sewaren, Pa., a corporation of New Jersey**
**Application June 4, 1943, Serial No. 489,702**
**9 Claims. (Cl. 18—39)**

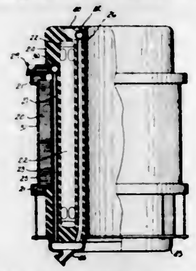


9. A casting cell for casting a polymerizable liquid material comprising top and bottom cell walls of rigid material, fluid-tight, collapsible tubing containing fluid under pressure separating said walls and forming the side walls of said cell, and means for releasing said fluid.

---

**2,390,130**
**COOLING MEANS FOR DYNAMOELECTRIC MACHINES**
**Frank J. Sigmund and William S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation, a corporation of Ohio**
**Application June 4, 1943, Serial No. 489,615**
**4 Claims. (Cl. 171—252)**

1. In a dynamo-electric machine having a magnetizable lamination core provided with a plurality of teeth and slots therebetween, a winding comprising coils with coil sides in said slots and coil heads at the ends of the core, a mass of insulating material in the slots and bridging the space between the teeth comprising a liquid proof container about each coil side, said mass of insulating material terminating in an annular ring upon each end of the core and comprising a liquid proof container about

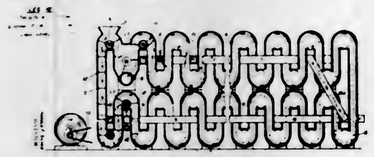


the coil heads, said mass of insulating material having duct cooling means therein, said cooling means including a plurality of longitudinal passages through the mass of insulating material.

---



**2,390,131**
**CONTINUOUS DIFFUSION PROCESS**
**Harold F. Silver, Denver, Colo.**
**Application August 8, 1942, Serial No. 454,098**
**16 Claims. (Cl. 127—45)**



1. A diffusion process, which comprises the movement of cossettes or the like through a confined treatment zone having a succession of treatment stages, each said stage including alternate downward and upward courses of cossette travel, feeding cossettes into one end of said confined zone, flowing juice in a progressive movement through the succession of treatment stages in a separate course generally countercurrent to the cossette travel, moving said juice into the respective treatment stages at a point intermediate the ends of the downward course, directing the juice so intermixed with cossettes through a substantial extent of said treatment stage concurrent with the travel of the cossettes, withdrawing said juice from the succeeding upward course at a point near the top thereof to permit draining of the cossettes before they are again brought in contact with the juice at the intermediate position in the downward course of the next treatment stage, and discharging the juice and cossettes separately from the treatment.

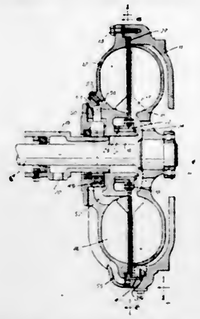
---

**2,390,132**
**DRY SPINNING PROCESS**
**Albert F. Smith and Halsey B. Stevenson, Brandywine Hundred, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application October 18, 1944, Serial No. 559,232**
**5 Claims. (Cl. 18—47.5)**

3. The process for obtaining an improved dry-spun hydrolyzed ethylene/vinyl acetate interpolymer filament, which comprises spinning a solution of a substantially completely hydrolyzed interpolymer of ethylene with vinyl acetate, the mol ratio of ethylene to vinyl acetate in said interpolymer prior to hydrolysis having been within the range of from 1/1 to 5/1, within four days thereof heating the resultant filament in a taut condition for a period of at least five hours at a temperature within the range of from its sticking temperature to 20° C. below said sticking temperature, and thereafter, within two days of said heating operation, drawing the treated filament at least 100% of its original length.

---

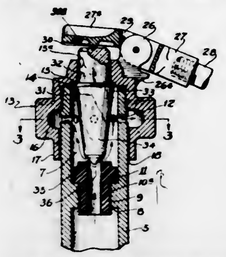
**2,390,133**
**TURBINE CONSTRUCTION**
**Raymond R. Snyder, Toledo, Ohio, assignor to Automatic Turbine Drive Company, Inc., a corporation of New York**
**Application July 29, 1940, Serial No. 348,151**
**3 Claims. (Cl. 60—54)**



1. In a hydraulic coupling, a driving rotor, a driven rotor, said rotors having opposed buckets, said driving rotor having an axial hub associated therewith, a disk valve mounted on said hub and rotatable to cut off fluid flow to and from the buckets of the driving rotor; and means responsive to fluid pressure changes produced by change of speed of the driving rotor for rotating the valve.

---

**2,390,134**
**BALL COCK VALVE STRUCTURE**
**Bennett Svirsky, Glendale, Calif.**
**Application December 17, 1943, Serial No. 514,596**
**2 Claims. (Cl. 137—104)**

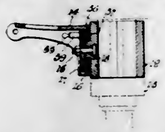


2. A ball cock valve structure comprising a valve body provided with a glass valve-forming plunger, said plunger comprising a cylindrical end portion from which projects a frusto-conical portion of one taper which extends to a pointed conical portion of a greater taper, a rubber valve seat member having through its seat portion a

circular opening surrounded by a right angular annular shoulder against which said conical portion seats with a hair-line contact, operating means carried by said valve body cooperating with said plunger to form a complete ball cock structure and stop means carried by said ball cock structure and cooperating with said plunger whereby the travel of the latter is sufficiently restricted to at all times prevent the withdrawal of the point of said plunger from the mouth of the opening through said valve seat.

---

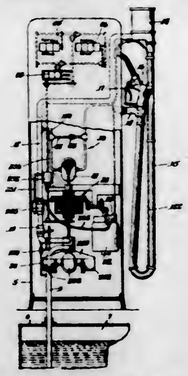
**2,390,135**
**DOUBLE SWIVEL BRACKET FOR OUTBOARD MOTORS**
**Herrmann B. Tobias, Washington, D. C.**
**Application September 13, 1944, Serial No. 553,856**
**1 Claim. (Cl. 248—4)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



In combination with a stern bracket supporting a tilt bolt, an outboard motor swivel support comprising a member having one end thereof pivotally attached to said tilt bolt to permit rotation therearound and the other end thereof terminating in a ring flange, a sleeve supporting said motor and having a boss thereon positioned in said ring flange, a retaining ring contacting said boss confining the ring flange between the retaining ring and the sleeve and permitting rotation around said boss, a bolt and nut assembly clamping said retaining ring to said boss, and a depression in said ring flange arranged to receive a releasable spring plunger attached to and extending through the retaining ring thereby locking the said members against rotation.

---

**2,390,136**
**LIQUID DISPENSING APPARATUS**
**Richard R. Trexler, Evanston, Ill.**
**Application April 18, 1939, Serial No. 268,551**
**22 Claims. (Cl. 222—36)**



1. A liquid dispensing apparatus comprising a dispensing line, a dispensing pump for propelling liquid through the dispensing line, a power source, power connections between the power source and pump for driving said pump, said power source being adapted to operate continuously during the dispensing cycle, and power diverting mechanism for diverting the power of the power source from the pump, a fluid control circuit for controlling the power diverting mechanism, a control pump for propelling fluid through the fluid control circuit, and a valve having a valve element for controlling the flow of fluid within the control circuit, said element being balanced in respect to fluid pressure within said circuit, whereby the element experiences uniform resistance to shifting movement under various fluid pressure conditions.

---

**2,390,137**
**IMPRESSION MATERIAL**
**Vance V. Vallandigham, Chicago, Ill., assignor to Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois**
**No Drawing. Application May 14, 1942, Serial No. 443,017**
**3 Claims. (Cl. 18—47)**

1. An impression material capable of yielding durable, hard-surfaced plaster forms cast in molds made thereof, which impression material comprises a soluble alginate, a gel-precipitating quantity of hydrated calcium sulfate, tri sodium phosphate, magnesium carbonate, and dead-burned calcium sulfate.

---

**2,390,138**
**METHOD OF CONDITIONING GEL MOLDS**
**Vance V. Vallandigham, Park Ridge, Ill., assignor to Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois**
**No Drawing. Application June 28, 1943, Serial No. 492,586**
**6 Claims. (Cl. 18—55.1)**

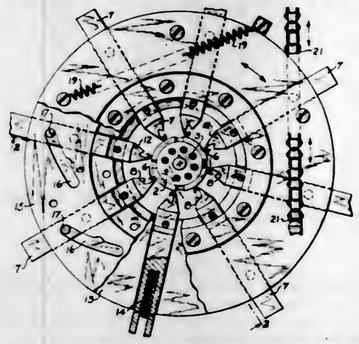
1. The method of conditioning gel molds for receipt of hydraulic setting-mineral casting material, which comprises forming a mold by a setting action involving the gelation of water-soluble colloid material selected from the group consisting of water-soluble alginate salts, water-soluble algin, water-soluble pectate salts and pectin, placing the gelled mold in an aqueous bath containing in solution a small quantity of dissolved material including water-soluble accelerator for said setting-mineral material and including a second material which is water-soluble gel-precipitant for the water-soluble colloid material, whereby the accelerator enters the mold to be retained thereby for delivery therefrom in forming the cast to be made, and whereby the gel-pricipitant toughens and hardens the mold surface, removing the mold from the bath, and placing a hydraulic-setting mineral mix against the mold surface to form a cast, whereby accelerator in the mold speeds the setting of the cast, the quick-setting of the cast and the toughening and hardening of the mold providing a hard, smooth molded surface on the cast.

---

**2,390,139**
**LEAD WIRE THREADING MACHINE**
**Anthony J. Vasselli, Newark, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 27, 1942, Serial No. 448,742**
**14 Claims. (Cl. 316—27)**

1. The method of threading a plurality of lead wires of an envelope into hollow contact pins circularly arranged on a base of the envelope, comprising straightening the lead wires, hooking each wire near its end adjacent the envelope and bending the wires radially outward at an angle to the plane of the envelope from which





the wires emerge, then pushing the wires adjacent their outer ends into a position in registry with the hollow contact pins and finally moving said envelope and base together to pass the wires into the pins.

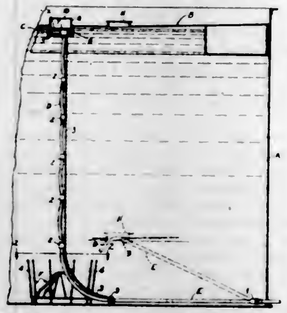
---

**2,390,140**
**PREPARATION OF ALKYL LACTATES**
**Samuel M. Weisberg and Edwin G. Stimpson, Baltimore, Md., and Alfred L. Miller, State College, Pa., assignors to Sealtest, Inc., Baltimore, Md., a corporation of Maryland**
**Application February 17, 1944, Serial No. 522,712**
**8 Claims. (Cl. 260—484)**

1. A method of preparing alkyl lactates comprising mixing an aliphatic alcohol, a strong mineral acid, and a member of the group consisting of alkali metal lactates and alkaline earth metal lactates, suddenly subjecting the mixture to such conditions of temperature and pressure as to flash vaporize the volatile components of the mixture and separate them from any solids present in the mixture.

---

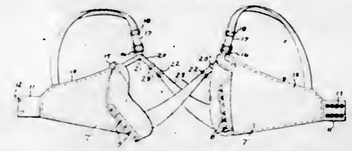
**2,390,141**
**DRAINAGE MEANS FOR FLOATING TANK ROOFS**
**John H. Wiggins, Chicago, Ill.**
**Application June 19, 1943, Serial No. 491,743**
**4 Claims. (Cl. 220—26)**



1. A floating tank roof provided with a flexible conduit leading downwardly from same and adapted to coil and uncoil in the lower portion of the tank as the roof falls and rises due to changes in the level of the liquid on which the roof floats, said conduit having an outlet from the tank, tubular weights distributed in spaced relation along the length of said conduit to prevent it from floating in the liquid, and a flexible supporting element of less length than said conduit, attached at its upper end to the roof and fastened to said weights so as to prevent the load of said weights from being exerted on the conduit when the conduit is hanging in a suspended condition from the roof.

---

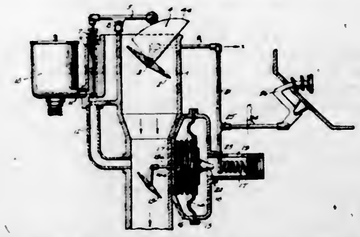
**2,390,142**
**BRASSIÈRE**
**Max Witkower, Los Angeles, Calif.**
**Application September 27, 1943, Serial No. 503,925**
**3 Claims. (Cl. 2—42)**



1. In a brassière: a pair of breast pockets each terminating at the sides in a band adapted to extend around the body of the wearer; detachable securing means on the ends of the bands; detachable securing means for joining the breast pockets along the front medial line of the brassière; a pair of shoulder straps each having one end attached to the back portion of the brassière; a fabric strip attached intermediate its ends to the front end of each shoulder strip, one end of the fabric strips being secured to the upper portion of its associated breast pocket; a pair of supporting straps crossed intermediate their lengths having their lower ends attached to the lower portion of one breast pocket along the medial line thereof and having their upper ends attached to the other end of said fabric strip on the opposite shoulder strap; and means for detachably securing the upper portion of each breast pocket to its associated shoulder strap.

---

**2,390,143**
**CONTROLLING OR REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES**
**Guido Wünsch, Berlin-Wannsee, Germany; vested in the Alien Property Custodian**
**Application January 26, 1940, Serial No. 315,835**
**In Germany January 27, 1939**
**1 Claim. (Cl. 261—49)**

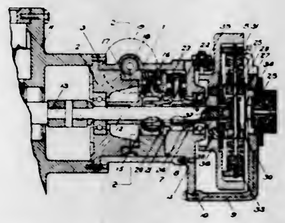


An air-fuel ratio control device, for internal combustion engines having an air supply conduit, a fuel chamber and a fuel conduit connecting said chamber with said air supply conduit, com-

prising a main air valve in said air supply conduit; a fuel valve controlling said fuel conduit and operatively connected to said air valve; an auxiliary air valve in said air supply conduit, downstream of the said main air valve and the connection of said fuel conduit and said air supply conduit; pressure responsive means having a chamber communicating merely with said air supply conduit between said main and said auxiliary air valves, said auxiliary valve being operatively connected with said pressure responsive means, to be adjusted by the differential pressure in the air supply conduit and the atmosphere, for maintaining substantially constant the pressure in said air supply conduit between said main and said auxiliary air valves; means for manually and simultaneously controlling said main air valve and said fuel valve; and an auxiliary means connected with said pressure responsive means and to be controlled thereby, for independently moving said main air valve in closing direction when said auxiliary air valve is fully open.

---

**2,390,144**
**SPEED CONTROL SYSTEM**
**Clement E. Gossling, Toronto, Ontario, Canada, assignor to Rogers Majestic Corporation, Dover, Del., a corporation of Delaware**
**Application December 9, 1943, Serial No. 513,603**
**In Canada February 16, 1943**
**9 Claims. (Cl. 264—3)**

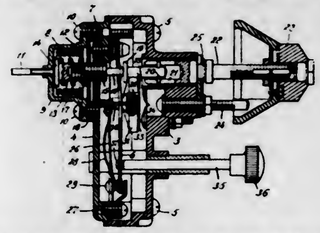


1. A speed control system comprising a stationary casing, a first rotating member, a secondary rotating member actuated by the said first rotating member, means for varying the angular relationship of the said first rotating member and the said secondary rotating member while both members are in motion, a centrifugal governor unit equipped with loading weights responsive to relative angular movements of said rotating members for adjusting the radius of gyration of the loading weights.

---

**2,390,145**
**ELECTRIC SWITCH**
**Theodore Eliot Graves, Orange, N. J., assignor to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware**
**Application August 20, 1943, Serial No. 499,367**
**6 Claims. (Cl. 200—140)**

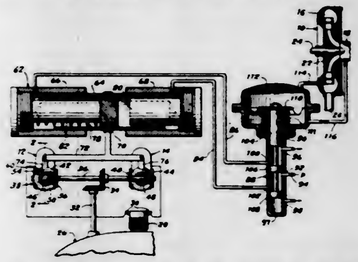
1. A thermostatic switch having a snap-acting mechanism including a member movable to either of two positions and an electrical contact positioned thereby, a snap-acting spring normally biasing the member toward one of its positions, manual means for causing movement of the member to the opposite position accompanied by actuation of the snap-acting spring, and spring means separate from said snap-acting spring acting to hold the member in the last-mentioned position, said spring means being effective to hold the member in that position when it has been moved there by the manual means



but not to move it to that position against the tension of the snap-acting spring.

---

**2,390,146**
**IGNITION TIMING CONTROL DEVICE**
**John S. Hasbrouck, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application December 23, 1942, Serial No. 469,931**
**8 Claims. (Cl. 123—117)**

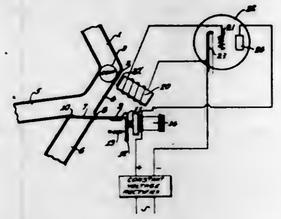


1. In combination with an engine having a supercharger and an adjustable electric ignition system, a servomotor for adjusting said ignition system to change the timing thereof, and means for controlling said servomotor including a casing, a diaphragm dividing said casing into two separate chambers, means connecting one of said chambers with the outlet side of said supercharger, means connecting the other chamber with the inlet side of said supercharger, and a device actuated by said diaphragm for controlling said servomotor.

---

**2,390,147**
**DEVICE FOR TESTING COINS**
**William Hatton, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application August 13, 1941, Serial No. 406,592**
**2 Claims. (Cl. 194—101)**

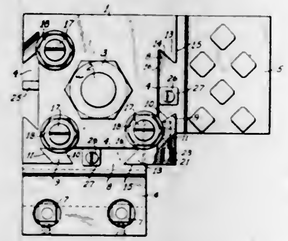
1. A coin testing and rejecting device including in combination, a descending coin chute for a coin, said chute having two substantially rectilinear portions joining one another at an angle so that a coin acted on by gravity will be brought to a predetermined velocity at the juncture of said two chute portions, means for establishing a magnetic field directly at said juncture, through which field a coin will pass with said predetermined velocity, irrespective of the weight of said coin, an electrical pickup winding also located within said magnetic field and excited by a change thereof, electronic relay means actuated by said pickup winding, a rejecting valve movable from a coin rejecting to a coin accepting position located in the lower portion of said chute beyond said juncture point, electromagnetic means controlling said valve and actuated by said electronic relay, and delay means operative



to maintain said valve in a coin rejecting position while the coin passes from said magnetic field to said valve by releasing the valve when a coin to be accepted reaches said valve, whereby coins of any peripheral shape are tested under substantially identical velocities.

---

**2,390,148**
**TOOL MOUNTING**
**Ernst Hijmans, The Hague, Netherlands; vested in the Alien Property Custodian**
**Application March 26, 1942, Serial No. 436,340**
**In the Netherlands November 18, 1940**
**2 Claims. (Cl. 82—36)**

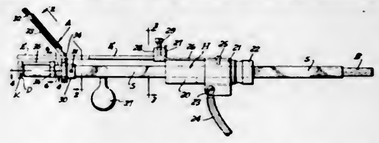


1. A machine tool mounting comprising a tool post having a dovetail slideway tapering from one end to the other, a tool holder having a dovetail shaped extension slideable in said slideway and contacting one side thereof, a gib between the other side of said slideway and the extension, said gib being trapezoidal in cross-section, means in said slideway against which the tool holder may abut for positioning the tool holder as to the tool post, and means for slideably moving said gib to lock the tool holder as positioned.

---

**2,390,149**
**ARC WELDING DEVICE**
**Oscar B. Hopper, Long Beach, Calif.**
**Application November 2, 1943, Serial No. 508,657**
**1 Claim. (Cl. 219—8)**

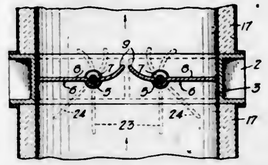
A welding device comprising: a hollow rod of non-circular cross section; a bar slidably fitted in said rod and longitudinally movable from one end of the rod to occupy advanced and retracted positions; a mold clamp on one end of said bar movable to grip or release a mold according as said bar is moved to retracted or advanced position; and an electrode holder slidable but non-rotatable on said rod to allow manual feeding of



the electrode longitudinally of the rod and toward the mold end of the latter.

---

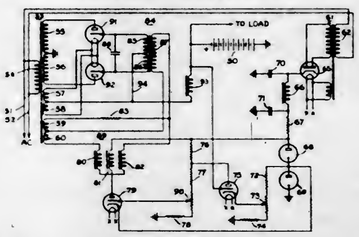
**2,390,150**
**VALVE**
**Harry O. Johnson and Martin O'Hare, Donora, Pa., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
**Application August 9, 1943, Serial No. 497,996**
**4 Claims. (Cl. 277—1)**



1. A valve of the class described, comprising a hollow annular body member, a pair of oppositely disposed substantially semi-circular plate members whose central portions are pivotally mounted in said body member and constructed and arranged so as to provide a flap valve with the inner opposed end portions of each of said plates arcuated outwardly in the direction of the fluid flow through the valve, whereby the fluid which passes to and through the valve impinges the plate members and is deflected toward the center thereof by said arcuated inner end portions, said arcuated portions thus jointly defining a converging passageway between the plate members when the valve is in closed position as well as when it is partially open.

---

**2,390,151**
**AUTOMATIC BATTERY CHARGING SYSTEM**
**Samuel A. Johnston, Delavan, Wis., assignor to George W. Borg Corporation, Chicago, Ill., a corporation of Delaware**
**Application January 22, 1944, Serial No. 519,368**
**10 Claims. (Cl. 320—10)**



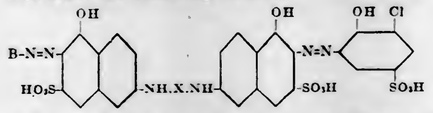

1. In a battery charging system, means for charging a storage battery, means for providing a standard voltage bearing a predetermined relation to the battery voltage when the battery is

fully charged, means for continuously comparing said voltages while the battery is being charged, said voltage comparing means comprising a spare discharge device having grid and cathode elements between which a potential is maintained equal to the difference between the battery voltage and said standard voltage, and means controlled by said device for stopping the charge responsive to the establishment of said predetermined relation by an increase in the battery voltage.

---

**2,390,152**
**SUBSTANTIVE AZO DYESTUFFS**
**Ernst Keller, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm**
No Drawing. Application July 31, 1942, Serial No. 453,097. In Switzerland September 19, 1941
4 Claims. (Cl. 260—153)

1. The substantive azo dyestuffs having in the free state the following formula




wherein B means an o-carboxyphenyl radical and X means a member of the linking groups selected from the class consisting of the —CO— and the divalent cyanuric radical, being when coppered dark powders dissolving in water with red color and dyeing cellulosic fibres in bluish red shades of improved water- and washing-fastness and in some cases also of improved light-fastness.

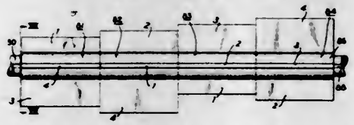
---

**2,390,153**
**CONDENSATION PRODUCTS AND PROCESS OF PRODUCING SAME**
**Rudolf Kern, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian**
No Drawing. Application May 29, 1941, Serial No. 395,732. In Germany June 26, 1940
6 Claims. (Cl. 260—72)

1. A process of solubilizing a water and organic solvent insoluble nitrogenous condensation product of an aliphatic diamine having at least 5 carbon atoms and a carbonyl compound selected from the group consisting of aldehydes and ketones which comprises heating said condensation product with three times its weight of 30% aqueous formaldehyde solution until said condensation product has been rendered soluble in water and organic solvents.

---

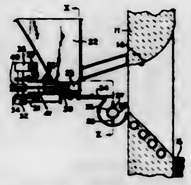
**2,390,154**
**SPREADER STOKER APPARATUS**
**Wilbur Kessler, Newtown Square, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
Application July 21, 1943, Serial No. 495,549
1 Claim. (Cl. 110—115)



In a stoker, a rotary fuel impeller comprising a rotatable body member and a plurality of fuel-distributing elements carried thereby in side-by-side relation; each of said elements comprising a hub and an annular series of outwardly-extending blades carried thereby, said blades varying in length from hub to tip, the fuel-distributing elements having similar arrangements of the blades in their series, with each series out of phase with the adjacent series by the annular spacing of the blades, and the number of blades on each element being evenly divisible into the number of elements on the body member, whereby a balanced propeller structure is provided.

---

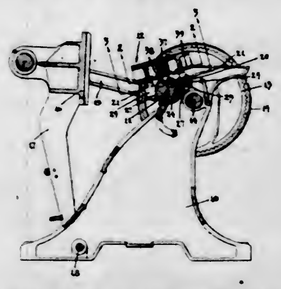
**2,390,155**
**SPREADER STOKER**
**Wilbur Kessler, Newtown Square, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
Application July 23, 1943, Serial No. 495,807
5 Claims. (Cl. 110—115)



1. In a stoker, fuel-feeding mechanism comprising a hopper; fuel-impelling means; and a reciprocal ram adapted to push fuel from the hopper to the impelling means, said ram having a fuel-engaging face disposed in a plane substantially transverse to the direction of its reciprocation, and the end portions of said fuel-engaging face being of greater height than the intermediate portion thereof.

---

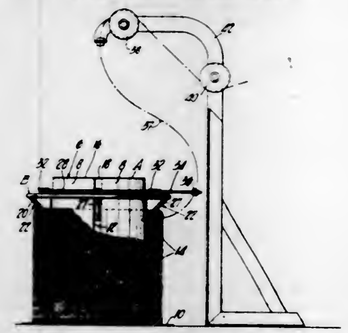
**2,390,156**
**PLATEN MOUNTING**
**Eneval Kluge, St. Paul, Minn., assignor to Brandtjen & Kluge, Inc., St. Paul, Minn., a corporation of Minnesota**
Application June 30, 1941, Serial No. 400,415
3 Claims. (Cl. 101—407)



3. In a press having a rest and coacting couple elements including a platen, a plurality of compound screws having differential motion anchoring said platen on said rest, a center-screw interposed between platen and rest, and gearing for turning similar members of said compound screws simultaneously either to advance or retract said platen equally at all portions thereof relative to its coacting couple element, said gearing including a ring-gear encircling said center-screw.



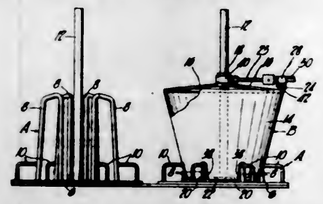
**2,390,157**
**WIRE PAY-OFF REEL**
**John Kramer, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
Application June 26, 1944, Serial No. 542,040
3 Claims. (Cl. 242—128)



1. A pay-off reel for supplying wire from a coiled bundle thereof to wire-processing instrumentalities, which comprises in combination a reel unit for receiving the coiled bundle of wire, a ring unit adapted to encircle the reel unit and to bear upon the coiled bundle mounted thereon, the said unit including a pressure ring adapted to exert compressional restraining force upon the bundle of wire on the reel unit and a rotatable ring having feed means for the wire mounted thereon, the said rotatable ring being mounted on the pressure ring and being operable responsively to tension imparted to the wire by the wire-processing instrumentalities, rotation of the rotatable ring unwinding wire from the coiled bundle as required by the wire-processing instrumentalities, and means associated with the pressure ring for continuously exerting a restraining compression force on the bundle of wire.

---

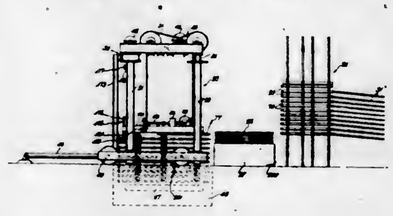
**2,390,158**
**REEL FOR WIRE-DRAWING MACHINES**
**John Kramer, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey**
Application June 26, 1944, Serial No. 542,041
3 Claims. (Cl. 242—128)



1. a reel adapted to hold a coiled bundle of wire and to supply wire from the said coiled bundle to a wire processing machine, which comprises in combination, a holding unit for receiving the coiled bundle of wire, and a compression unit for retaining the coiled bundle of wire against unrestrained movement tending to produce snarls and kinks in the wire, the holding unit including a base plate, a plurality of upstanding bundle-receiving members adapted to hold and to support a coiled bundle of wire placed thereon, and an upstanding guide member, and the compression unit including a compression member slidably mounted on the upstanding guide member of the holding unit, the said compression member being adapted to enter into the coiled bundle of wire on the holding unit and to exert a restraining pressure thereon for holding the wire in the bundle against uncontrolled movement and also being adapted to continuously follow the said bundle as it recedes responsively to wire being unwound therefrom for continuously exerting uniform restraining pressure on the wire, and means for unwinding the wire from the coiled bundle responsively to tension exerted on the wire by the wire processing machine.

---

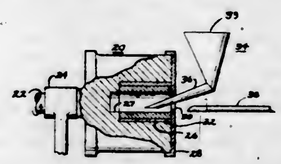
**2,390,159**
**HANDLING AND PRESSING MEANS AND METHOD**
**Irving F. Laucks, Seattle, Wash., Ericsson H. Merritt, Lockport, N. Y., and Walter D. Lawshe and Theodore W. Dike, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington**
Application May 27, 1940, Serial No. 337,540
29 Claims. (Cl. 144—309)



18. The method of charging an assembly of plies into a press opening which comprises confining the assembly by top and bottom pressure to prevent spreading of the plies and pushing the thus confined assembly into the opening while maintaining the opening at a spread to maintain the confined condition of the entering assembly.

---

**2,390,160**
**METHOD OF MANUFACTURE**
**John T. Marvin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
Application July 10, 1943, Serial No. 494,236
13 Claims. (Cl. 29—149.5)



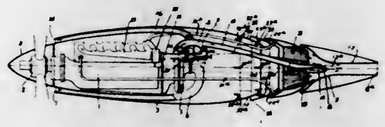
1. In a method of forming hollow cylindrical objects from non-compacted metal powder, the steps of: mixing the metal powder with a volatile organic solvent and a binder to form a slurry, supplying a predetermined quantity of said slurry to a retaining shell held within a centrifuge, rotating the shell with the powder therein for cen-

trifugally distributing the powder to form a hollow cylindrical shape and simultaneously evaporating the solvent, removing the shell with the formed object therein and then sintering the object under suitable conditions of time, temperature and atmosphere for decomposing the binder and causing the particles of metal in the object to sinter together and form a hollow cylindrical object.

7. In a method of forming a hollow, cylindrical object from substantially non-compacted metal powder, the steps of: preparing a binder solution by mixing a binder with a volatile solvent, adding metal powder to said solution to form a mixture of the desired consistency to permit flowability of the mixture, supplying a predetermined quantity of the mixture to a retaining shell, rotating the shell with the mixture therein and simultaneously operating upon the powder to distribute the same into a layer of substantially uniform thickness around the shell, continuing to rotate the shell at a speed sufficient to maintain the powder layer adjacent the walls of the shell, while simultaneously evaporating the solvent from the binder, cohering the metal powder into a cylindrical layer by causing the binder to bind the metal particles together and to superficially bind the layer to the cylindrical shell, sintering the shell with the metal powder layer therein under suitable conditions of time, temperature and atmosphere for causing the powder to sinter together and form a hollow cylindrical object.

---

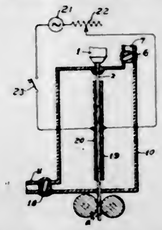
**2,390,161**
**AIRPLANE POWER PLANT**
**Pierre Ernest Mercier, Westport, Conn.**
**Application November 7, 1941, Serial No. 418,112**
**14 Claims. (Cl. 60—35.6)**



1. A device of the kind described which consists of an airplane engine, a pair of atmospheric air intake conduits directed and opening toward the forward portion of, and straddling said engine, an air compressor, a mixing chamber connecting said air compressor and conduits, and means establishing a linear flow of mixed compressed and atmospheric air in a path substantially parallel with the engine and communicating rearwardly therewith.

5. In an aircraft, the combination with a nacelle and propeller spinner, of an airplane engine disposed longitudinally of said nacelle, a pair of elongated air conduits having air inlet ends disposed in spaced positions adjacent to the base of said propeller spinner, an air compressor carried at the rear of the engine, an induction pipe communicating at its inner end with said engine, and communicating at an angle adjacent its outer end with one of said conduits, the other conduit communicating with said air compressor, and a nozzle in communication with said air compressor and extending concentrically in the form of an injector into the outer end of said induction pipe adjacent the point of communication therewith of said first-mentioned conduit, whereby mixing of compressed and of atmospheric air introduced through said first-mentioned conduit is brought about within said induction pipe.

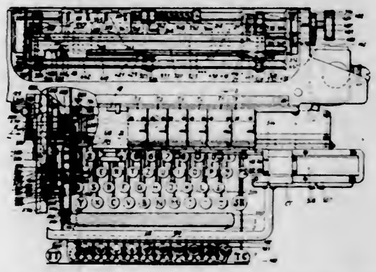
**2,390,162**
**METHOD FOR PRODUCING LIGHT POLARIZING BODIES**
**Kurt Meyer, Berlin-Zehlendorf, and Hans Lapp, Klein-Machnow, near Berlin, Germany; vested in the Alien Property Custodian**
**Application December 9, 1940, Serial No. 369,228**
**In Germany August 8, 1939**
**5 Claims. (Cl. 18—47.5)**



1. Process for the production of light polarizing bodies comprising forming a solution containing light polarizing particles, causing a film of the solution to fall freely through an enclosed zone, simultaneously imposing an electrostatic stress on the film for orienting the particles in said zone, retarding evaporation of the solution solvent in said zone whereby formation of film areas of differential viscosity is prevented, and thereafter evaporating the solution solvent to convert the solution into a solid body.

---

**2,390,163**
**TYPEWRITING ACCOUNTING MACHINE**
**Erich Mex, Berlin-Charlottenburg, and Friedrich Pott and Werner Heinze, Zella-Mehlis, Germany; vested in the Alien Property Custodian**
**Application June 22, 1936, Serial No. 86,664**
**In Germany June 28, 1935**
**11 Claims. (Cl. 235—59)**



2. In a typewriting-calculating machine having a traveling paper carriage to receive a record medium; a letter spacing escapement therefor: and calculating mechanism, including a totalizer having a series of denominational wheels on which an amount is registered; of a perforator-supporting carriage mounted on and shiftable relatively to the paper carriage; means to arrest the perforator-supporting carriage at a predetermined point in the travel of the paper carriage and record medium in letter spacing direction; a plurality of power-driven perforators mounted in horizontal alinement on the perforator-supporting carriage, to perforate the record medium traveling with the paper carriage relatively to the perforators, at each denominational letter



spacing position of the paper carriage subsequent to the arrest of the perforator-supporting carriage and its perforators corresponding with the denominational positions of those wheels of the totalizer which register significant digits of the amount, said perforators being less in number than the number of digits from "0" to "9," and so spaced relatively to one another at distances greater than the width of a letter space as to be selectively operable according to a combinational code to form interspersed codal representations of the digits on the record medium; and selective means under control of said denominational total wheels, to actuate said perforators to form a single one-high line of indications, on the record medium corresponding only with the digits of the amount registered on the totalizer wheels.

---

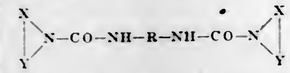
**2,390,164**
**CONJOINT POLYMERIZATION PRODUCTS**
**Eugene W. Moffett, Milwaukee, Wis., and Roy E. Smith, New York, N. Y., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania**
**No Drawing. Original application April 5, 1940, Serial No. 327,996. Divided and this application May 5, 1943, Serial No. 485,746**
**3 Claims. (Cl. 260—86)**

3. As a new composition of matter, a resinous product obtained by conjointly polymerizing 50 to 99 parts of vinyl chloride and 1 to 50 parts of an ester of allyl alcohol and a saturated monocarboxylic acid.

---

**2,390,165**
**IMINE CONDENSATION PROCESS**
**Ludwig Orthner, Wilhelm Luce, and Georg Wagner, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian**
**No Drawing. Application March 29, 1943, Serial No. 481,014. In Germany November 7, 1940**
**5 Claims. (Cl. 260—239)**

1. The process of preparing compounds of the general formula:



wherein R is a radical of the group consisting of aliphatic and isocyclic radicals and

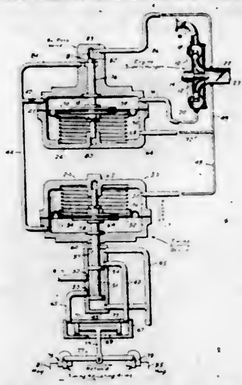


means an alkylene group bound to nitrogen in alpha-beta-position, which comprises condensing in the presence of alkali N,N'-dichloramides of dicarboxylic acids with alpha, beta-alkylene imines.

---

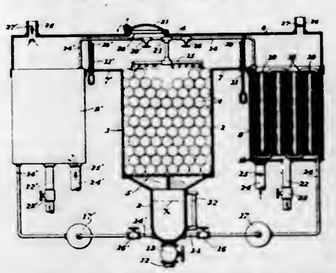
**2,390,166**
**IGNITION TIMING**
**Wright A. Parkins, West Hartford, and Gilmoure N. Cole, Manchester, Conn., and Arthur E. Smith, Kansas City, Kans., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application March 18, 1943, Serial No. 479,600**
**8 Claims. (Cl. 123—117)**

1. In combination with an engine having a supercharger driven at a speed dependent upon engine speed and an adjustable electric ignition system, a fluid pressure actuated device for adjusting said ignition system to change the timing thereof, conduits for admitting fluid under pressure from the outlet and inlet sides of said supercharger to said device, and a valve associated with at least one of said conduits for controlling the amount of pressure exerted on said device by said fluid.



---

**2,390,167**
**DEHYDRATING METHOD AND APPARATUS**
**Walter A. Patrick, Jr., and John D. Elder, Baltimore, Md.; said Elder assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York**
**Application May 20, 1943, Serial No. 487,780**
**11 Claims. (Cl. 159—3)**



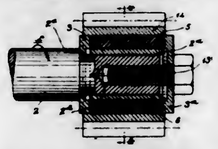
1. In the dehydration of a liquid material by the subjection of the same to forced evaporation and by the sorption of the evolved vapors in a desiccant, the method of heating the material and cooling the desiccant which comprises flowing a stream of the material being dehydrated in heat exchanging relation with the desiccant.

---

**2,390,168**
**DEVICE FOR CLAMPING MEMBERS TO SHAFTS**
**Marius Piot, Roanne, France; vested in the Alien Property Custodian**
**Application October 15, 1941, Serial No. 415,056**
**In France September 27, 1940**
**6 Claims. (Cl. 287—53)**

5. In combination, a shaft, a contractible bushing arranged on said shaft, a member having a bore therein arranged around the bushing, the inner periphery of said bore being disposed in spaced relation to the outer periphery of said

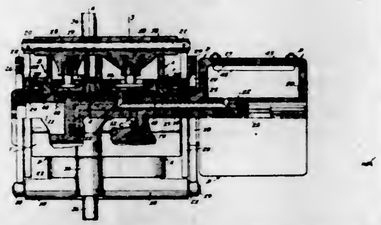
bushing, means cooperating with said member and bushing for closing the ends of said bore to form an enclosure, a single solid resilient and plastic interponent encased intermediate the shaft and bushing and filling up said enclosure,



an adjustable means engageable with said cooperating means for compressing said interponent lengthwise from both ends whereby said interponent will be expanded inwardly and outwardly into firm driving engagement with the contractible bushing and member respectively.

---

**2,390,169**
**VALVELESS ENGINE**
**Vittorio Pogioli, Milan, Italy; vested in the Alien Property Custodian**
**Application June 9, 1941, Serial No. 397,246**
**In Italy June 11, 1940**
**2 Claims. (Cl. 60—44)**

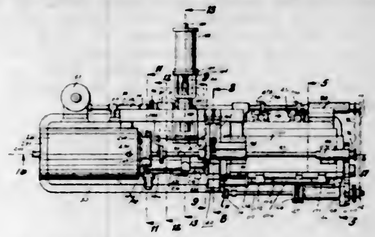


2. In a valveless engine a revolving shaft, a single combustion chamber at one end thereof, a plurality of sets of cylinders, each set comprising a compressor cylinder and a working cylinder wherein the combustion gases are allowed to expand aligned longitudinally of and on the same side of said shaft, said working cylinder being larger than the compressor cylinder, means for successively causing the compressor cylinder of each set to communicate with the combustion chamber and this latter with the working cylinder, said means comprising ducts provided in said shaft and adapted to register successively with the compressor cylinder and the combustion chamber, and with this latter and the working cylinder during each revolution of the shaft, both cylinders in each set being simultaneously moved in the same directions and for the same distances by said eccentrics during each revolution of said shaft.

---

**2,390,170**
**MACHINE FOR ASSEMBLING SHAFTS AND ARMATURE CORES**
**Lora E. Poole, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application February 9, 1942, Serial No. 430,031**
**42 Claims. (Cl. 29—205)**
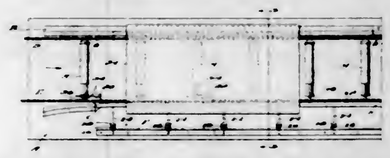
15. A machine for assembling armature cores and shafts comprising a work holder for supporting an armature core provided with a central aperture for receiving a shaft, means for gripping the shaft and for holding said shaft in alignment with the core aperture when the core is supported in the work holder, means for pushing the shaft into said aperture so as to assemble the core on



the shaft while it is held by said gripping means, means for disengaging the shaft gripping and holding means from the shaft when the shaft has been moved into engagement with the core.

---

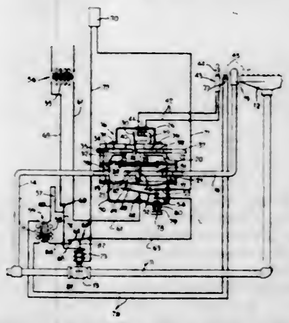
**2,390,171**
**TUBE MACHINE**
**John Paul Ratay, Washington, D. C.**
**Application May 2, 1942, Serial No. 441,487**
**9 Claims. (Cl. 154—1)**



2. A machine for forming articles of thermoplastic material comprising a pair of spaced conveying chains, a fixed guide rail for one chain, a floating guide rail for the other chain, a plurality of molds extending between and carried by said chains, and means for applying pressure against said floating rail.

---

**2,390,172**
**BURNER CONTROL SYSTEM**
**William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation**
**Application February 2, 1945, Serial No. 575,869**
**7 Claims. (Cl. 158—117.1)**

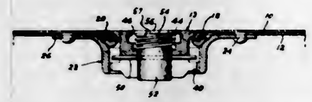


1. In a gas-burner control system: a main burner; a pilot burner for said main burner; a first electrical circuit; electrical means in said first circuit for igniting fuel at said pilot burner; a second electrical circuit; an electrically operated valve in said second circuit for controlling supply of fuel to said main burner, and biased to closed position; switching means for controlling a source of electrical energy and adapted to connect said circuits individually to the source; an auxiliary valve for controlling supply of fuel to said pilot burner; manual means for temporarily operating said switching means to first-circuit-connecting position and said auxiliary valve simultaneously to open position; and means responsive to the flame of the pilot burner, and operated after a predetermined interval following the establishment of said flame, for operating the switching means to second-circuit-connecting position and for maintaining the auxiliary valve in said open position.



---

**2,390,173**
**LOCK FASTENER**
**David M. Richey, Devon, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application January 8, 1945, Serial No. 571,796**
**7 Claims. (Cl. 151—6)**

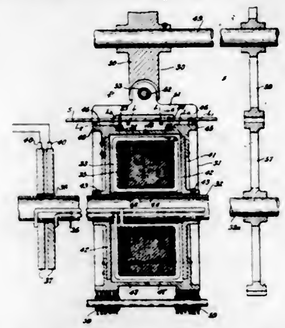


1. In combination, two members provided with registering openings, and means for detachably connecting said members comprising, a stationary fastening element carried by one member, a cooperating rotatable fastening element carried by said other member, said fastening elements having cooperating threads for drawing said members positively together in a progressive manner as said rotatable element is rotated, and locking means including a locking member which is mechanically independent of the cooperating threads on said members and is carried by one of said elements and engages an abutment on the other of said elements for positively locking said rotatable element in any of a plurality of positions of angular relationship thereof relative to said stationary fastening element, said locking member comprising a laterally projecting detent movable across a rib of the thread on the element by which it is carried and said abutment comprising an interrupted rib of the thread on said other element.

---

**2,390,174**
**CONTINUOUS MANUFACTURE OF WELDED WIRE MESH**
**George R. Roemer, Mount Lebanon, Pa.**
**Application January 1, 1943, Serial No. 470,975**
**9 Claims. (Cl. 219—4)**

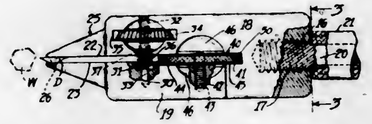
4. Apparatus for continuously welding wire mesh, including a hollow shaft; lower rotary electrode means including a rotary transformer mounted on said shaft; means moving line wires with stay wires positioned across the same over said lower electrode means; means conducting primary current through the shaft directly to and from said transformer; said lower rotary electrode means also including laterally spaced, outer, continuous, cylindrical rim contact surfaces in the secondary circuit of said transformer and insulated from each other each contacting two laterally spaced line wires; upper rotary electrode means uniformly pressing a stay wire against the line wires backed up by said laterally spaced cylindrical contact surfaces as each stay wire passes between the upper and lower electrode means; and means at one end of said hol-



low shaft actuated by the passage of each stay wire momentarily energizing the transformer primary circuit while a stay wire positioned across said line wires is pressed against the line wires and said contact surfaces.

---

**2,390,175**
**DIAMOND HOLDING TOOL**
**Morris Rogos, Jackson Heights, N. Y.**
**Application July 13, 1944, Serial No. 544,695**
**4 Claims. (Cl. 125—30)**



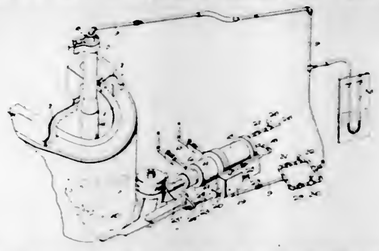
1. In a diamond holding tool, in combination, a body member, a jaw member, a rod threaded into one of said members and constituting a handle for the tool, means for adjusting said members toward and away from each other including a threaded stud, a spring for yieldably separating the members and an adjusting wheel on said stud, nose portions on said members presenting opposed faces between which a cutting diamond is held upon clamping movement of said adjusting means, and an auxiliary jamming means for cooperation with said adjusting means for maintaining the jaws in parallel clamping relation.

---

**2,390,176**
**GLASS FEEDER**
**James W. Ross, Washington, Pa., assignor to Hazel-Atlas Glass Company, Washington, Pa., a corporation of Pennsylvania**
**Application August 8, 1942, Serial No. 454,174**
**6 Claims. (Cl. 49—55)**

1. A glass feeder including a receptacle for the glass having a submerged flow orifice, a bell projecting into the glass in substantial alignment with the flow orifice, shears arranged below the orifice for severing the glass charges, a piston and cylinder for operating the shears, means for periodically creating vacuum and pressure, said means operated by said piston, a pipe line con-

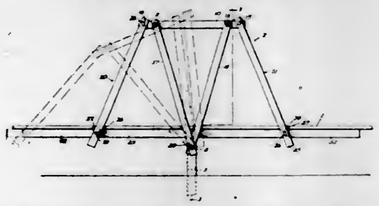
necting the bell and said means, a valve in said line for controlling the application of vacuum



and pressure to the bell, and an operative connection between said valve and said piston.

---

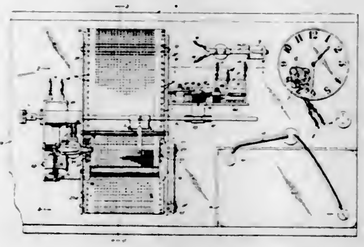
**2,390,177**
**PULL ROD CARRIER**
**Allen M. Rossman, Wilmette, Ill.**
**Application October 30, 1942, Serial No. 463,959**
**17 Claims. (Cl. 74—522.5)**



1. Apparatus of the class described including a T-shaped support, means for holding the stem of the T in position, and a pull rod carrier pivoted on the web of the T-shaped support about an axis extending lengthwise through the web.

---

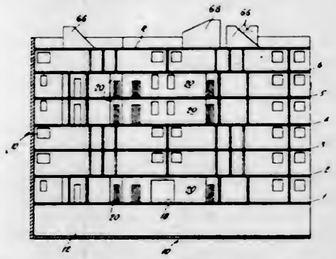
**2,390,178**
**DRILLING RATE RECORDER**
**Homer M. Rutherford, Centralia, Ill.**
**Application June 21, 1941, Serial No. 399,082**
**3 Claims. (Cl. 234—36.5)**



1. In a well logging device in which repeatedly a writing implement is moved across a strip of paper a distance corresponding to elapsed time, and then the implement is returned to the place of starting and the strip is advanced a space, the improvement comprising an electrical device and circuit for moving said implement across the strip, a switch in said circuit, a timing device constructed and arranged to periodically close said switch, a spring for returning the implement to the place of starting, a detent for holding the spring against action, an electromagnet for releasing the detent, and a circuit therefor having a relay which when energized breaks the first circuit.

---

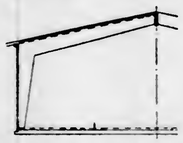
**2,390,179**
**BUILDING CONSTRUCTION**
**Charles H. Sacks, Brooklyn, N. Y.**
**Application May 17, 1944, Serial No. 536,015**
**11 Claims. (Cl. 20—1.1)**



1. In a multi-storied building construction, a plurality of vertically superposed apartment units, each unit occupying at least two stories, the living rooms being contained on one story and the sleeping quarters being contained on another story making up the unit, the story containing the sleeping quarters of one unit being spaced away from the stories of the units above and below containing the living rooms by at least one intervening story.

---

**2,390,180**
**WOODEN FRAME TRUSS**
**Wilhelm Sahlberg, Niesky, Oberlausitz, Germany; vested in the Alien Property Custodian**
**Application October 19, 1938, Serial No. 235,842**
**In Germany January 26, 1937**
**6 Claims. (Cl. 20—0.5)**



1. In a continuous wall frame truss, a truss upright and a truss cross member, the said cross member and the said upright each comprising an outer flange, an inner flange and at least one wooden web plate, each said flange consisting of timber with rectangular cross section, and being connected to the sides of the web-plate by means of glue with one face lying flush with the respective edge of the web-plate, the web-plate of the cross member abutting with the upper end of the web-plate of the upright, the abutting ends of said web-plates being connected together by means of glue, and a joint covering plate at the frame corner covering the glue-joint between the abutting ends of the web-plates, the said joint-covering plate reaching from the outer bounding line to the inner bounding line of the web-plate of the cross member and from the outer bounding line to the inner bounding line of the upright, the said joint covering plate having its faces connected to all said flanges and to the web-plates by means of glue.



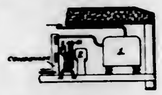
**2,390,181**
**HINGED SKI**
**Henri Sarthou, Saint-Gervais-les-Bains, France; vested in the Alien Property Custodian**
**Application November 10, 1942, Serial No. 465,641**
**In France March 31, 1941**
**5 Claims. (Cl. 280—11.13)**



1. In a ski, a first section for constituting the toe and the central part, a second section for constituting the heel, and a resiliently distortable blade placed on edge and having one end fixed on the longitudinal axis of the first section and its other end so related to the second section on its longitudinal axis as to allow a relative lateral angular displacement of the sections relatively to each other whilst ensuring their rigidity in the vertical direction.

---

**2,390,182**
**REFRIGERATOR EQUIPPED WITH A MOTOR-DRIVEN REFRIGERATING APPARATUS OF THE COMPRESSION TYPE**
**Hans Schirrmeister, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian**
**Application May 23, 1940, Serial No. 336,692**
**In Germany March 31, 1939**
**7 Claims. (Cl. 62—115)**



3. In an electric refrigerator, the combination of a cold-producing refrigerant circulation system including a compressor, an A. C. motor for actuating said compressor, said motor and said compressor forming a sealed unit, current supply means for connecting said motor with a D. C. supply circuit, including an inverting contact device inserted between said motor and said current supply means, and means including a second electromotor for cooling the refrigerant circulating in said system, said second motor being connected with said supply means and actuating said inverting contact device.

---

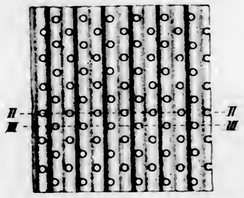
**2,390,183**
**STAMPING DIE**
**Roger Adolphe Leonard Seligman, Paris, France; vested in the Alien Property Custodian**
**Application December 6, 1940, Serial No. 368,873**
**15 Claims. (Cl. 76—107)**



1. The method of making a shaped stamping die having a hardened steel working face which includes forming a steel plate to the desired face shape, filling the space adjacent the back of said plate with backing material composed in part at least of a metallic fusing component whose melting point is not higher than the highest temperature to which the steel of the plate may be raised without detriment to the subsequent hardening of said steel by quenching, heating said backing material and steel plate to a temperature high enough to melt the fusing component but not higher than the highest temperature to which the steel can be raised without detriment to the subsequent hardening thereof by quenching, and then cooling the backing material and steel plate together in such manner including quenching as to harden the plate.

---

**2,390,184**
**COOL WET DRESSING WITH BANDAGES**
**Manfred Seng, Berlin, Germany; vested in the Alien Property Custodian**
**Application May 8, 1941, Serial No. 392,529**
**In Germany May 11, 1940**
**1 Claim. (Cl. 128—156)**



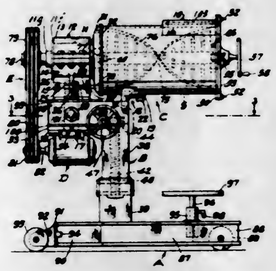
An insert adapted for interposition between a wet dressing adapted to be applied to a body surface, and a bandage overlying the insert and holding the dressing and the insert in place, said insert comprising a compacted, homogeneous, non-absorbent, waterproofed sheet of substantial thickness, at least a major portion of said sheet being permanently formed to provide spaced projections extending on opposite sides of the median plane of the sheet, said projections acting to substantially increase the overall bulk and effective thickness of the insert without an increase in mass, while substantially reducing the areas of contact between the insert and the dressing, and substantially increasing the possibility of air circulation between the insert and the bandage and between the insert and the dressing, said projections being formed in their crests with holes in number and size only sufficient to permit the passage of evaporation from the wet dressing while substantially precluding the passage of liquid moisture through the insert, whereby wetting of the bandage by moisture from the wet dressing is prevented.

---

**2,390,185**
**PRODUCTION OF MIXED ORGANIC ESTERS OF CELLULOSE**
**George W. Seymour and Blanche B. White, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application November 19, 1943, Serial No. 510,920**
**6 Claims. (Cl. 260—225)**

1. Process for the production of cellulose acetate-stearate, which comprises esterifying cellulose with stearyl chloride in a liquid medium containing pyridine, separating the cellulose stearate formed from the liquid medium, washing the cellulose stearate to remove excess stearyl chloride and drying it, and further esterifying the cellulose stearate with acetic acid anhydride and an esterification catalyst in suspension in a liquid medium comprising acetic acid and benzene which is a solvent for the cellulose acetate-stearate formed.

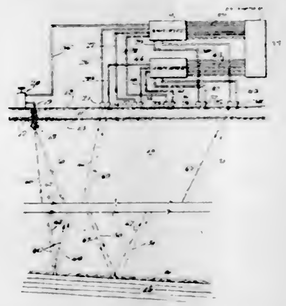
**2,390,186**
**PORTABLE WHIPPING MACHINE**
**Renwick J. Sharp, Guatemala, Guatemala**
**Application November 17, 1944, Serial No. 563,850**
**11 Claims. (Cl. 259—44)**



1. A whipping machine of the kind described comprising an elongated base, ground wheels whereon said base is portably supported, a standard carried by said elongated base nearer to one than to the opposite end thereof, whipping mechanism mounted upon said standard, said whipping mechanism comprising a tank to contain the substance to be whipped, said tank being positioned in an offset relation upon and to said standard at the side thereof which is nearest to the midlength of the aforesaid elongated base, and a saddle pivotally connected to said standard for movement to and from a supporting relation to the offset portion of said tank.

---

**2,390,187**
**SEISMIC SURVEYING**
**Joseph A. Sharpe, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware**
**Application October 22, 1941, Serial No. 416,112**
**9 Claims. (Cl. 181—0.5)**



1. Apparatus for seismic surveying including means for generating seismic waves, a plurality of electric seismometers, each responsive only to the simultaneous rotational effect of the horizontal and vertical components of transverse waves, and means for recording the output of each of said seismometers on a common record as a function of time in a manner to record each of said outputs distinguishably from the others of said outputs.

**2,390,188**
**BLOUSE**
**Morris Shelder, Chicago, Ill., assignor to Form Fashion, Inc., Chicago, Ill., a corporation of Illinois**
**Application April 1, 1942, Serial No. 437,171**
**3 Claims. (Cl. 2—125)**



1. A garment comprising front and back panels stitched together to provide a deep, regularly curved armhole opening generally in one plane, and a sleeve formed from a piece of fabric having at one end a substantially semi-circular portion extending outwardly and a pair of generally triangular wing portions projecting outwardly at each side of the semi-circular portion and each having an edge extending generally radially of the semi-circular portion, the shaping and arrangement being such that when the other edges of the wing portions are stitched together the piece provides an upper sleeve portion generally in one plane adapted to match the upper armhole and a lower sleeve portion with a generally curved edge generally in another plane normally at a decided angle to the plane of the upper sleeve portion and distorted out of its normal plane for attachment to the lower armhole, both said sleeve portions being stitched directly to said armhole opening.

---

**2,390,189**
**MASTIC COMPOSITION**
**Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application November 1, 1941, Serial No. 417,575**
**4 Claims. (Cl. 260—41)**

1. A mastic composition comprising fibrous material, and from 30% to 60% based on said fibrous material of hydrocarbon resin polymer selected from the group consisting of heat resin polymer and catalytic resin polymer of polymerizable hydrocarbons contained in a hydrocarbon oil which has been physically separated from tar produced in the vapor phase pyrolysis of petroleum oil and which is free from and of greater volatility than the pitch of said tar, said hydrocarbon oil when separated and when subjected to polymerization containing in addition to hydrocarbons boiling between 210° C. and 350° C. which are not polymerizable by the application to said oil of heat alone but which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst, other hydrocarbons boiling between 210° C. and 350° C. which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst but which last-mentioned hydrocarbons are also polymerizable to heat resin polymer by the application to said oil of heat alone, said last-mentioned hydrocarbons being present in said hydrocarbon oil in amount greater than approximately 5% of the total hydrocarbon oil boiling between 210° C. and 350° C., said hydrocarbon resin polymer having a melting point in excess of 60° C.



---

**2,390,190**
**CHEMICAL PROCESS AND PRODUCT**
**Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**
**No Drawing. Application May 23, 1942, Serial No. 444,255**
**8 Claims. (Cl. 154—28)**

1. A mineral fiber mass of open structure having a coating thereon comprising a hydrocarbon resin polymer selected from the group consisting of heat resin polymer and catalytic resin polymer of polymerizable hydrocarbons contained in a hydrocarbon oil which has been physically separated from tar produced in the vapor phase pyrolysis of petroleum oil and which is free from and of greater volatility than the pitch of said tar, said hydrocarbon oil when separated and when subjected to polymerization containing in addition to hydrocarbons boiling between 210° C. and 350° C. which are not polymerizable by the application to said oil of heat alone but which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst, other hydrocarbons boiling between 210° C. and 350° C. which are polymerizable to catalytic resin polymer by treating said oil with a resin-producing catalyst but which last-mentioned hydrocarbons are also polymerizable to heat resin polymer by the application to said oil of heat alone, said last-mentioned hydrocarbons being present in said hydrocarbon oil in amount greater than approximately 5% of the total hydrocarbon oil boiling between 210° C. and 350° C.

---

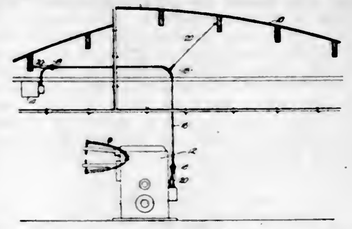
**2,390,191**
**PHOSPHATE GLASS**
**John E. Stanworth, Sheffield, England, assignor to General Electric Company, a corporation of New York**
**No Drawing. Application March 12, 1945, Serial No. 582,417. In Great Britain July 26, 1944**
**3 Claims. (Cl. 106—47)**

1. A glass composition comprising, by weight, about 28–38% $P_2O_5$, 8–16% $Al_2O_3$, 13–22% $B_2O_3$, 24–34% $ZnO+MgO+BaO$, and 6–10% $Na_2O$, the molecular ratio of $P_2O_5$ to $Al_2O_3$ being within the range 1.5 to 3.0.

---

**2,390,192**
**METHOD AND MEANS OF SUPPORTING ELECTRIC CABLE**
**John N. St. Clair, Kansas City, Kans.**
**Application July 12, 1943, Serial No. 494,327**
**1 Claim. (Cl. 248—63)**

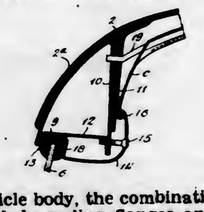
Supporting means for flexible cable comprising a pair of separable elements formed to circumscribe the cable when operably mounted thereon and to establish a bend in the cable; a flexible anchoring member extending an appreciable distance from the clamp to a point of attachment for one end thereof on a supporting structure; and a clamping member on one of the elements for receiving the opposite end of the flexible anchoring member, said member being adapted to hold the pair of separable elements in their operative position with respect to each other and with the cable, the member being disposed on a medial transverse line of the pair of elements and projecting outwardly from the convex side of the bend formed in the cable whereby the support of the anchoring member is evenly



distributed along the cable at the bend therein when the anchoring member is in alignment with the axis of the clamping member.

---

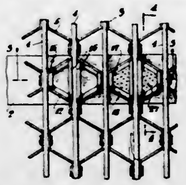
**2,390,193**
**AUTOMOBILE ROOF**
**Karl Tandetzke, Berlin, Germany; vested in the Alien Property Custodian**
**Application February 5, 1941, Serial No. 377,449**
**In Germany July 7, 1939**
**5 Claims. (Cl. 296—137)**



1. In a vehicle body, the combination of a roof having lateral depending flanges and edge portions curved outwardly and downwardly from said flanges, to form lateral channels; supporting means for the roof comprising girders pressed into said channels, respectively, said girders extending continuously from the front to the rear of the vehicle; and front and rear body elements on which said girders are mounted.

---

**2,390,194**
**GRATING**
**Ernest L. Tarof, Cupsaw Lake, N. J., assignor to Kerlow Steel Flooring Company, Jersey City, N. J., a corporation of New Jersey**
**Application October 27, 1944, Serial No. 560,556**
**5 Claims. (Cl. 94—30)**

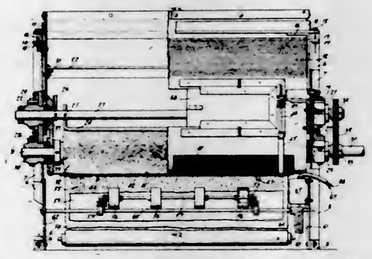


1. In a grating structure for a vehicular roadway comprising a plurality of metal strips arranged on edge with their upper edge surfaces all lying in one and the same plane, said strips being held together at points of contact and with sufficient rigidity to form a unitary structure presenting an open mesh surface serving as a

roadway for vehicular traffic, a skeleton supporting structure including structural elements underlying and supporting said grating at intervals, and means for providing obstruction to skidding over said roadway, said means comprising a plurality of individual devices, each device being engaged at its sides by the sides of said metal strips defining a mesh in said grating structure and said devices providing projections above the upper edge surfaces of said strips, said devices being located in groups of multiple devices separated from one another and thereby providing separated areas of obstructions in the surface of said grating.

---

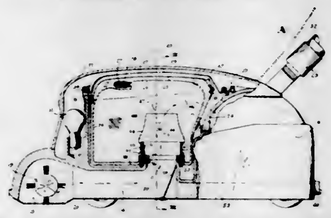
**2,390,195**
**FLOUR DUSTER**
**Eugene S. Tascher, Ingleside, Ill., assignor to National Biscuit Company, New York, N. Y., a corporation of New Jersey**
**Application February 14, 1944, Serial No. 522,354**
**13 Claims. (Cl. 107—7)**



1. In a machine of the class described, the combination of a frame, a hopper mounted on the frame and having an elongated opening in its bottom, a brush mounted on the frame to rotate in the hopper adjacent said opening, means for adjusting the width of said opening, and means for adjusting the hopper vertically with respect to the brush.

---

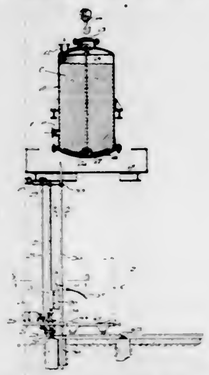
**2,390,196**
**SUCTION CLEANING APPARATUS**
**Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application December 5, 1942, Serial No. 467,920**
**4 Claims. (Cl. 183—37)**



1. In a suction cleaner, a casing having an air inlet throat extending inwardly and upwardly from the bottom thereof, a foraminous enclosure removably positioned in said casing and having an access opening, a cover for said opening, said enclosure having an inlet throat extending inwardly and upwardly from the bottom thereof, an air filtering container disposed in said enclosure and having a discharge opening accessible through said access opening and an intake mouth, means for connecting the throat of said enclosure and the mouth of said container to said air inlet throat, at a point above the bottom of said casing and said enclosure, a suction-creating device for causing air to flow through said inlet into said container and outwardly through the walls thereof, there being a second access opening in a wall of said casing large enough to permit withdrawal therethrough of said container and said enclosure as a unit, and a cover for said second access opening.

---

**2,390,197**
**METHOD OF REMOVING COKE**
**Vanderveer Voorhees, Homewood, and George W. Watts, Flossmoor, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application December 29, 1941, Serial No. 424,830**
**4 Claims. (Cl. 202—36)**



1. The method of removing coke from an elevated vertical drum which comprises supporting said coke as a body within said drum by an elevating device independent of said drum, exposing said coke at the bottom of said drum and adjacent the wall thereof piercing said coke body from bottom to top adjacent the wall of said drum, introducing a cutting tool through the resulting opening, vertically cutting the coke and removing it in a narrow, vertical channel adjacent substantially the entire vertical wall of said drum, simultaneously flushing the cuttings from the said channel in the vicinity of said cutting tool, lowering the body of coke substantially in a single piece to a point outside of said drum and closing said drum for further coking operations.

---

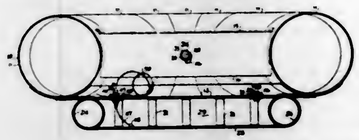
**2,390,198**
**HARDENABLE RESIN COMPOSITION**
**Arthur Voss, deceased, late of Frankfort-on-the-Main, Germany, by Hedwig Voss, administratrix, Frankfort-on-the-Main, Germany, and Karl Dietz, Kronberg in Taunus, and Heinz Thomas, Hofheim in Taunus, Germany; vested in the Alien Property Custodian**
**No Drawing. Application May 23, 1941, Serial No. 394,890. In Germany June 6, 1939**
**3 Claims. (Cl. 260—34)**

3. A hardenable composition of matter comprising 80 parts of the heat hardenable condensation product of a phenol and an aldehyde in a state not further advanced than the resol state and 20 parts of a halogen containing interpolymerizate obtained by copolymerizing mixtures of materials selected from the group consisting of vinyl chloride and maleic anhydride; vinyl chloracetate and maleic anhydride; vinyl acetate and chloromaleic anhydride; styrene and chloromaleic anhydride.



---

**2,390,199**
**INFLATABLE LIFE RAFT**
**James A. Walsh, West Haven, Conn.**
**Application August 18, 1943, Serial No. 499,063**
**5 Claims. (Cl. 9—2)**



3. An inflatable life raft, including in combination: an inflated tubular side-wall portion and an inflatable double bottom portion; an inlet valve-unit connected to the hollow interior of the said double bottom; and an outlet valve-unit also connected into the said double bottom in such position that when gas is forced into the double bottom through the said inlet valve-unit, water in the said double bottom may be forced outwardly through the said outlet valve-unit.

---

**2,390,200**
**NONRAVELING EDGE, REINFORCING RIB OR JOINT STRUCTURE FOR KNITTED METALLIC MESH FABRICS AND METHOD OF PRODUCING SAME**
**Otto H. York, Maplewood, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware**
**Application August 17, 1944, Serial No. 549,844**
**11 Claims. (Cl. 28—72)**

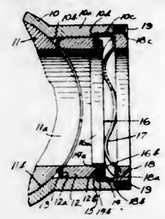


1. A compacted and integrated structure for knitted metallic mesh fabrics comprising portions of the fabric body rolled into a convolute formation, said formation being compacted whereby knit loops of its contiguous convolutions are interentangled and interlocked to form a relatively dense, integrate and self-maintained structure forming mass.

---

**2,390,201**
**SEAL ASSEMBLY**
**Bill C. Bredenbeck, Parma, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application October 16, 1944, Serial No. 558,818**
**7 Claims. (Cl. 251—113)**

1. A seal assembly for valves and the like comprising a retainer sleeve having a sealing end face, a diaphragm having an inner peripheral portion engaging the end face of the retainer sleeve opposite the sealing end face thereof, a follower ring having a collar portion fitting within the diaphragm and retainer sleeve together with an outturned flange portion for overlying the diaphragm, spring means pressing said follower ring to urge the sealing end face of the retainer sleeve



against the part to be sealed, and means for sealingly clamping the outer peripheral portion of the diaphragm to a part in which said retainer sleeve is slidably mounted.

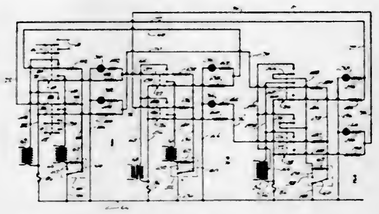
---

**2,390,202**
**SYNTHETIC DRYING OILS**
**Harry Burrell, Paramus, N. J., and Philip I. Bowman, Syracuse, N. Y., assignors, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application January 31, 1941, Serial No. 376,840**
**12 Claims. (Cl. 260—410.6)**

1. A synthetic drying oil consisting essentially of a polypentaerythritol selected from the group consisting of dipentaerythritol, tripentaerythritol and mixtures thereof fully esterified with an unsaturated monocarboxylic higher fatty acid.

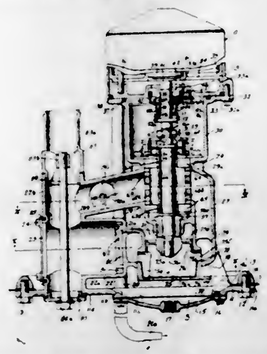
---

**2,390,203**
**COMMUNICATION SYSTEM**
**Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware**
**Application February 28, 1944, Serial No. 524,178**
**32 Claims. (Cl. 179—37)**



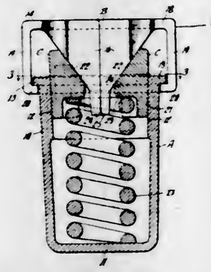
1. In a multiple station intercommunicating system, the combination including, signal lights at each station corresponding to other stations in the system, station selector switches at each station corresponding to other stations in the system, and means including signal light circuits between the stations and light circuit controlling switches operable with said selector switches constructed and arranged to produce intermittent glowing of the light at the selecting station and continuous glowing of the light at the selected station when a selector switch at the selecting station corresponding to the selected station and a selector switch at the selected station corresponding to some other station have been operated.

2,390,204
**COMBINATION BOOSTER PUMP**
Russell R. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio
Application May 12, 1944, Serial No. 535,257
16 Claims. (Cl. 103—11)



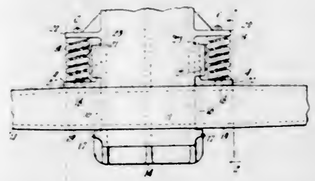
1. A pump and motor unit comprising a plurality of pumps having a common inlet and a common outlet, a motor for driving said pumps, clutch means selectively connecting said pumps with said motor for sequential operation of the pumps, and means between said outlet and said inlet preventing back flow from the outlet through an inoperative pump.

2,390,205
**SHOCK ABSORBER**
George E. Dath, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application October 11, 1943, Serial No. 505,795
7 Claims. (Cl. 267—9)



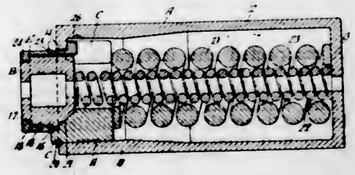
1. In a shock absorber, the combination with a friction casing open at one end and closed at the other end, said open end being provided with interior friction surfaces; of a laterally, outwardly projecting, retaining flange at the open end of said casing; a plurality of friction shoes having sliding engagement with the friction surfaces of the casing; a central length-wise divided sectional wedge between said shoes having wedging engagement therewith to spread the same apart; and a flange on each section of said wedge overhanding the flange of the casing and engageable in back of said flange of the casing to limit outward movement of the wedge.

2,390,206
**RAILWAY CAR TRUCK**
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 4, 1944, Serial No. 534,039
3 Claims. (Cl. 105—197)



1. In a railway car truck, the combination with truck side frames, a truck bolster, and springs supporting said bolster on the side frames; of vertically spaced guide slots on one side of said bolster at one end thereof, said guide slots extending lengthwise of the bolster; a friction plate having a section thereof extending lengthwise of the bolster and guided for lengthwise movement in said guide slots, said plate having a second section at right angles to said first named section bearing on the inner side of the corresponding side frame in sliding engagement therewith; a laterally extending spring abutment flange projecting from said side of the bolster rearwardly of said guide slots, said abutment flange being spaced inwardly from the corresponding side frame; and a spring under predetermined compression interposed between the second named section of the friction plate and said spring abutment flange.

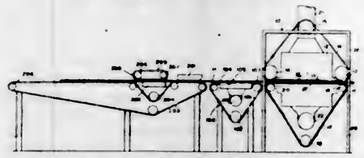
2,390,207
**FRICTION SHOCK ABSORBING MECHANISM**
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc, Chicago, Ill., a corporation of Delaware
Application May 10, 1944, Serial No. 534,909
4 Claims. (Cl. 213—34)



1. In a friction shock absorbing mechanism, the combination with a casing open at its front end; of a plurality of friction shoes slidingly telescoped within the casing; a central wedge block having wedging engagement with the shoes; spring means within the casing opposing inward movement of the wedge and shoes; and a retaining sleeve engaged over the outer end of the wedge and having shouldered engagement therewith to limit outward movement of the same, said sleeve having rearwardly extending arms engaged between adjacent shoes, said arms having lugs at the inner ends thereof in shouldered engagement with the interior of the casing to limit outward movement of said sleeve.

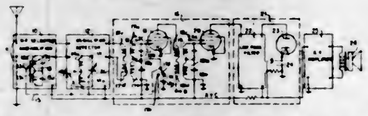


2,390,208
**HEATING APPARATUS**
Clarence J. Davies, Detroit, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Original application March 11, 1940, Serial No. 323,430, now Patent No. 2,383,849, dated August 28, 1945. Divided and this application July 26, 1943, Serial No. 496,207
15 Claims. (Cl. 154—27)



2. In apparatus of the character described, a heating chamber, a conveyor belt for advancing a continuous fibrous web through said chamber, narrow bands movable with said conveyor belt and arranged to overlie the edges of said web, at least one of said bands being adjustable transversely of said conveyor belt to accommodate various widths of webs, and means for forcing a current of heated air through said chamber, said chamber having a side wall adjustable transversely of said conveyor belt to accommodate various widths of webs.

2,390,209
**RADIO RECEIVING SYSTEM**
Pat A. D'Orio, Oak Park, and John W. Huff, Elmwood Park, Ill., assignors, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application June 19, 1944, Serial No. 541,046
7 Claims. (Cl. 250—20)

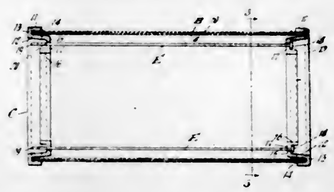


1. In a superheterodyne wave signal receiver adapted selectively to receive amplitude-modulated signals or frequency-modulated signals and including means for deriving from a selected received signal an intermediate-frequency signal having a nominal carrier frequency of one value for amplitude-modulated signals and a substantially different value for frequency-modulated signals, a combined amplitude-modulation and frequency-modulation detector comprising, a single filter having a substantial response over the modulation band of the amplitude-modulated intermediate-frequency signals and a substantially sloping response characteristic over the modulation band of the frequency-modulated intermediate-frequency signals, and a single modulation detector coupled to said filter.

2,390,210
**FORTIFICATION OF RICE**
Ernest A. Fieger and Virginia R. Williams, Baton Rouge, La., assignors to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La.
No Drawing. Application March 8, 1944, Serial No. 525,598
7 Claims. (Cl. 99—11)

1. The process of fortifying milled rice grains while preventing the development of opacity and the checking, cracking or breaking of the grains, which includes subjecting said grains to the action of a water solution of a fortifying agent and a salt in an amount equal to at least 90% of saturation, and then drying the grains.

2,390,211
**FILM HOLDER**
Eric G. Forssell, Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 12, 1945, Serial No. 572,561
4 Claims. (Cl. 250—68)



1. In a film holder, the combination with inner and outer tubular shells between which the film is adapted to be held: of front and rear caps closing the ends of said tubular shells; and a retaining element for clamping said caps together, comprising an elongated member having a head at one end and a locking lug at the other end, said head and lug having shouldered engagement with said caps respectively.

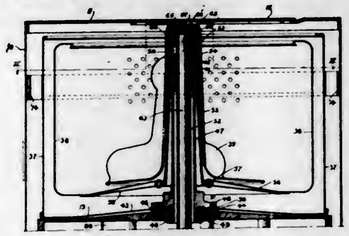
2,390,212
**ANTIFOAMING AGENTS**
James H. Fritz, Montclair, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application September 22, 1942, Serial No. 459,302
4 Claims. (Cl. 106—131)

3. A substantially nonfoaming aqueous glue stock having dispersed therein an ester of a fatty acid containing from 8 to 22 carbon atoms per molecule with a mixture of ethylene glycol polymers containing an average of 9 ethylene oxide residues per molecule of polymer and a hydrophobic extender selected from the class consisting of wax, stearic acid and insoluble metallic soaps.

2,390,213
**FLOATING SUPPORTING STRUCTURE FOR AUTOMATIC WASHERS**
Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Nineteen Hundred Corporation, St. Joseph, Mich., a corporation of New York
Original application December 2, 1940, Serial No. 368,190. Divided and this application May 1, 1943, Serial No. 485,294
5 Claims. (Cl. 68—23)

1. A washing machine comprising a supporting frame, a floating base, a tub mounted on said base, a perforated basket rotatably mounted within said tub on said base, an agitator mounted within said basket on said base, a motor suspended from said base, transmission mechanism connecting said motor to selectively rotate said basket and oscillate said agitator, said transmission mechanism being suspended from said base,

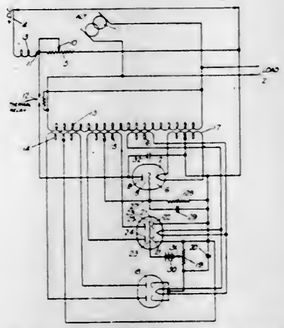
and a three-point floating support for said base on said supporting frame, said motor being so



disposed as to lie substantially adjacent one of said points of support.

---

2,390,214
VOLTAGE REGULATOR
William Christian Grabau, Brighton, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application June 24, 1942, Serial No. 448,307
5 Claims. (Cl. 171—119)

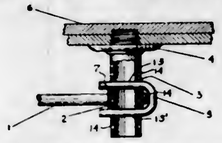


1. A voltage regulator for an alternating supply source having a field winding energized by direct current, a resistance shunted by both a gaseous control tube and a condenser all connected in series with said field winding, said gaseous control tube having a grid control electrode, a rectifier means operatively connected to said alternating source and providing a voltage controlled in magnitude in accordance with the magnitude of the alternating current source, thermionic control tube means and circuit operatively controlled by said rectifier and having an output element in series with said control grid, and means included in said control tube means and circuit for rapidly varying the voltage in said output element during each alternating current cycle for periodically discharging said tube to vary said field current whereby said voltage source is maintained at its desired value.

---

2,390,215
SWIVEL CHAIR
George M. Grill, Kew Gardens Hills, N. Y., assignor to Lewyt Corporation, a corporation of New York
Application August 9, 1944, Serial No. 548,665
4 Claims. (Cl. 155—95)

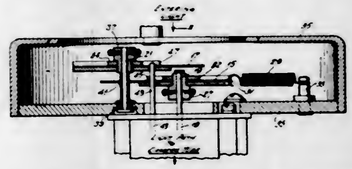
4. A chair of the class described, comprising a supporting frame, a transverse crossbar carried by said supporting frame, a chair seat, a post supporting said chair seat and extending through an aperture in said crossbar and turnable within said aperture, said post being transversely



apertured, and a yoke member extending in overlapping relation to said crossbar and through said apertured post for supporting the latter upon said crossbar while permitting swivel motion of said post with respect to said crossbar.

---

2,390,216
LIGHT SHUTTER
Emile C. Guedon, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 27, 1944, Serial No. 532,985
4 Claims. (Cl. 95—62)



1. An optical shutter system for television cameras and the like comprising a pair of movable shutter blades, separate spaced support spindles for supporting each shutter blade to which support spindles the said blades are secured so as to be adapted to turn about the support spindles relative to each other, a motor device having a rotor element which is provided with a winding thereabout and which is also supported upon a rotor shaft which also forms one of the said two blade support spindles so as to turn one of the shutter blades upon energization of the rotor element windings, a flange element also secured to the rotor element and carrying a pin member extending parallel to the said rotor shaft spindle and spaced apart therefrom and adapted to turn about the said spindle as an axis when the winding of the rotor element is energized, the second of said pair of shutter blades having a slotted area through which the said pin member protrudes, means for rotating the second of said shutter blades by said pin member about the second spindle with a rotation of the first named spindle and pin due to energization of the said rotor element coil, and resilient means for returning the shutter blades to a predetermined position at periods of de-energization of the motor coil.

---

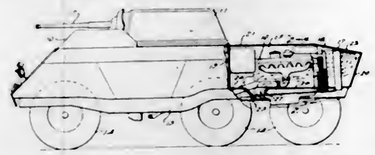
2,390,217
COATING AND COATING METHODS
Joseph L. Krieger, Baltimore, Md.
No Drawing. Application September 23, 1941, Serial No. 411,993
8 Claims. (Cl. 106—193)

1. Lacquer compositions having a nitrocellulose base, of reduced tendency to gel or discolor, containing a material of the group consisting of bronze powder and copper powder to which is added from 0.1% to 5.0% by weight, based on the bronze or copper powder, of a powdered metal having a higher electrode potential than that of copper.



---

2,390,218
MOTOR VEHICLE
Ernest P. Lamb, Grosse Pointe Park, and Robert H. Duff, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich, a corporation of Delaware
Application October 28, 1943, Serial No. 507,972
2 Claims. (Cl. 180—54)



2. A motor vehicle including an internal combustion engine at the rear thereof having a circulating system for a liquid cooling medium, a radiator in said system, a housing forming a compartment for the engine having an air inlet opening rearwardly of the engine and radiator and into said compartment for circulation about said engine, a fan driven by the engine for drawing air through the inlet opening and radiator, said housing having an air outlet opening adjacent the front of said compartment communicating with atmosphere, a portion of the housing immediately forward of the outlet opening extending below that portion of the housing immediately rearward of the outlet opening whereby a suction effect is created at the outlet opening incident to forward movement of the vehicle.

---

2,390,219
STAPLE
Desmond R. La Place, Pittsburgh, Pa., assignor to Bocji Corporation, Pittsburgh, Pa., a corporation of Delaware
Application June 13, 1942, Serial No. 446,985
3 Claims. (Cl. 85—49)

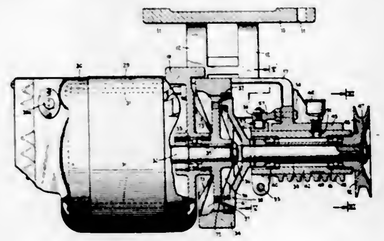


1. A substantially U-shaped staple having a crossbar and depending legs with the lower portions of the legs offset outwardly a distance equal to the thickness of the material of the legs.

---

2,390,220
SEWING MACHINE DRIVE
Harold J. Le Vesconte, Western Springs, and Albert M. Schweda, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application June 30, 1942, Serial No. 449,196
17 Claims. (Cl. 192—18)

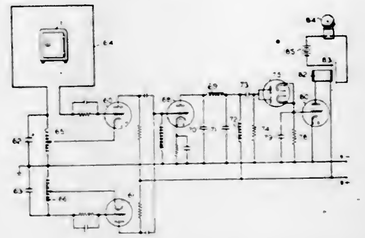
1. In a device of the class described, a frame, a motor mounted on said frame, a clutch carried by said frame, said clutch having a member driven directly by said motor and a second member shiftable axially into and out of engagement with said first mentioned member, a brake engaged by said second member when the latter is disengaged from said first mentioned member,



an arm rockably mounted on said frame, means on said frame cooperating directly with said arm to impart an axial bodily movement thereto as it is rocked, and connections between said arm and said second member for shifting the latter axially with said arm.

---

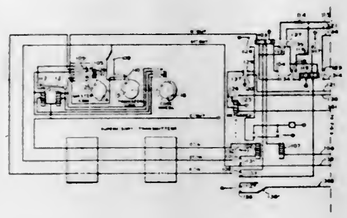
2,390,221
ALARM SYSTEM
Maxwell H. A. Lindsay, Summit, N. J., and Konstantin Woloschak, Port Chester, N. Y., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Original application April 19, 1940, Serial No. 330,464. Divided and this application July 3, 1943, Serial No. 493,330
8 Claims. (Cl. 177—314)



1. In a signaling system, a protected object having a variable capacity to ground, a constant frequency source of oscillations, a variable frequency source of oscillations responsive to changes in said capacity, a modulator for adding the outputs of said sources and obtaining an audio beat frequency which varies in accordance with the variable frequency source, means for converting said modulator output to a direct current, means between the modulator and the converting means whereby variations in the frequency of the modulated output vary the amplitude of the audio signals imposed upon said converting means to cause variations in the converted direct current, and alarm means controlled by said direct current.

2,390,222
**UNIT TRANSMITTER PRINTING AND SIGNALING SYSTEM**
Manfred W. Muchter, Nutley, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Original application January 12, 1938, Serial No. 184,595, now Patent No. 2,309,660, dated February 2, 1943. Divided and this application August 3, 1940, Serial No. 350,622
8 Claims. (Cl. 177—360)

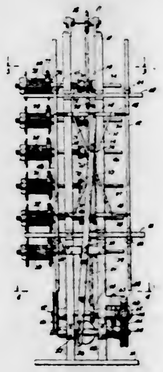
1. In combination, primary and secondary groups of transmitters, a single receiver, means



for initiating the starting operation of each transmitter, lines connecting the respective groups with the receiver, means associated with the lines, groups, and receiver whereby a transmitter from either group may operate the receiver, and means for establishing precedence of connection to the receiver for all of the transmitters of the primary group over the transmitters of the secondary group regardless of the order in which starting operation of the transmitters is initiated whereby a transmitter of the secondary group can be connected to the receiver only when no transmitter of the primary group has its starting operation initiated.

---

2,390,223
**MULTIPLE WINDING AND SPOOLING DEVICE**
Herman P. Ruf, New York, N. Y.
Application June 24, 1943, Serial No. 492,120
1 Claim. (Cl. 242—17)



In a multiple spindle spooler including a plurality of spool spindles and bobbins thereon, a worm carrying shaft in the machine frame, an adjustable friction disc on said shaft, a driven shaft, and worm gear thereon in mesh with the worm on said friction disc carrying shaft, a grooved cam on said driven shaft, a movable frame and a pin thereon engaging the groove of said cam to produce a reciprocatory movement of said frame, stub shafts having their inner ends connected to a bar of said frame, and eyes on said stub shafts through which the material to said bobbins is guided during the reciprocatory lateral movement of said frame while the spindles are being rotated, means to rotate said spindles to produce a uniform winding of the material to be spooled upon the individual bobbins, and means to detachably mount each of the spools on its spindle.

---

2,390,224
**SAFETY BALL TRAP**
Francis C. Sams, Bath, N. Y.
Application February 17, 1944, Serial No. 522,817
4 Claims. (Cl. 273—47)



1. In a bowling alley ball-return runway having an inclined portion adjacent to one end thereof, a safety ball-trap for said runway comprising a generally circular band adapted to bridge said inclined runway portion, a hinge comprising pin-jointed hinge plates one of which lies flat against said band and the other of which hangs loosely from said pin-joint, a non-metallic ball-stop member carried by said last mentioned hinge plate and adapted normally to occupy a position in the path of travel of a ball along said inclined runway portion and adapted immediately to return to normal position should it be momentarily displaced, and separate fastening means for attaching the hinge plates respectively to the band and to the ball-stop member, the fastening means being so disposed relatively to the ball-stop member as to limit its swinging movement.

---

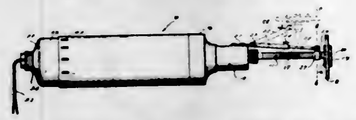
2,390,225
**MANUFACTURE OF CEMENT**
Laurence R. Sherman, Glens Falls, N. Y., and Charles R. Bartels, South Orange, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application July 12, 1941, Serial No. 402,228
5 Claims. (Cl. 106—100)

1. In a process for the production of Portland cement which normally includes preparing an aqueous slurry of unburned siliceous material proportioned for burning in a cement kiln to produce Portland cement, the slurry being of pumpable viscosity with the use of a minimum of water and normally including from approximately 33 to 40% of water, the steps which consist of adding to siliceous dry materials proportioned for burning in a cement kiln to form Portland cement a quantity of water from 10 to 15% lower in amount than that normally used together with a viscosity reducing agent selected from the class consisting of metallic salts of lignin sulfonic acid, highly sulfated fatty acids, sulfonated cresol compounds and derivatives thereof and thereafter burning said slurry to produce cement clinker.



---

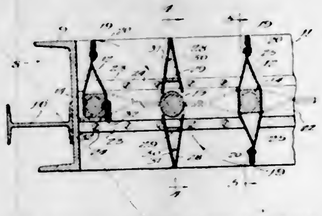
2,390,226
**MOTOR ACTUATED ERASER**
John P. Smith, Reidsville, N. C.
Application January 10, 1944, Serial No. 517,714
3 Claims. (Cl. 120—36)



3. An electric motor-driven eraser of the class described comprising a motor equipped handle, a flexible motor-driven shaft mounted on one end of said handle, a bearing on the outer end of said shaft, a spindle journaled for rotation in said bearing, said spindle being provided with a hub and a backing head, an eraser having a central apertured portion removably mounted on said hub and resting against said backing head, a clamping screw and head for holding the eraser detachably and operatively in position, and a longitudinally extensible and retractable adapter device having a part mounted on the adjacent end portion of said motor handle, said adapter device having means embracing said bearing.

---

2,390,227
**DAMPER CONSTRUCTION**
William S. Smith, Hinsdale, Ill., assignor to Henry Pratt Company, a corporation of Illinois
Application July 31, 1944, Serial No. 547,496
9 Claims. (Cl. 98—110)

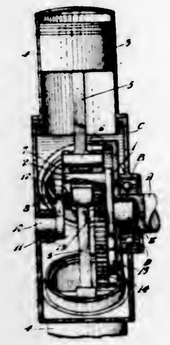


1. In a damper construction: a frame, a pair of parallel louver blades spaced apart at least the width of a blade and journalled in said frame and provided at their edge portions with flexible contact material, and a roller journalled in said frame between said blades to rotate slightly when the blades are turned to closed position, at which time the flexible edges of the blades contact the roller.

---

2,390,228
**TRANSMISSION GEARING**
Seth W. Thompson, Essex Fells, N. J.
Application January 30, 1943, Serial No. 474,087
13 Claims. (Cl. 74—52)

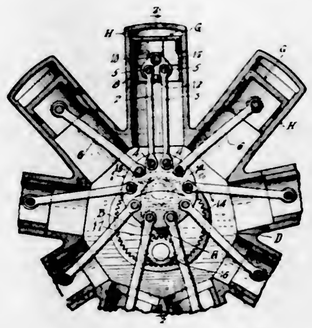
1. The combination of a rotatable gear, a crankshaft having a crankpin, a second gear meshing with said rotatable gear and mounted on said crankpin to permit relative movement of said second gear and said crankpin about the axis of the latter, and crank-like members for holding said second gear against rotation and for guiding it



so that every point thereon moves in a circular path.

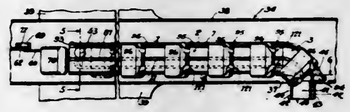
---

2,390,229
**TRANSMISSION GEARING FOR CRANKSHAFTS**
Seth W. Thompson, Essex Fells, N. J.
Application February 24, 1944, Serial No. 523,685
11 Claims. (Cl. 74—52)



1. The combination with a shaft having a crank and a crank pin, a plurality of cylinders radially related to said shaft and pistons reciprocable in said cylinders; of a bearing member mounted on said crank pin for relative rotation of the crank pin and said member about an axis parallel to that of the crank shaft, a connecting rod pivotally connected to each piston and pivotally connected to said bearing member, means for preventing all rotative movement of said member about its axis on said crank so that every point on said member moves in a circular path and at the same speed during bodily movement of said member by said crank, a driven shaft rotatable relatively to said crank shaft and coaxially therewith, a gear on and rotatable with said driven shaft, and a pinion rigidly connected to and coaxial with said bearing member and meshing with said gear.

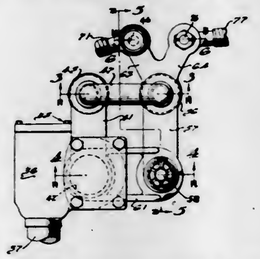
**2,390,230**
**AUTOMATIC PARACHUTE DELIVERY MECHANISM FOR AIRCRAFT**
**Harry P. Trusty, Los Angeles, Calif.**
**Application June 19, 1942, Serial No. 447,618**
**11 Claims. (Cl. 244—137)**



1. In combination with an airplane and its cabin with a door in a side wall of said cabin at the rear of the wings of the plane, a plurality of parachute carriers movably mounted in said cabin one behind the other longitudinally of said cabin, parachutes connected to said carriers, respectively, means whereby said carriers may be conveyed longitudinally rearwardly and then laterally in the cabin out through said cabin door and dropped from the plane, and means whereby said parachutes are automatically opened when said carriers are dropped from the plane.

---

**2,390,231**
**STEERING MECHANISM**
**Chester C. Utz, Magnolia (Redford Station), Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application November 10, 1943, Serial No. 509,701**
**12 Claims. (Cl. 280—95)**

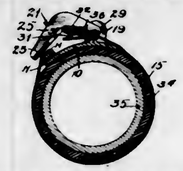


1. In a steering mechanism for a car having steerable road wheels, a steering chuck mounted to one side of the vertical longitudinal mid plane of the car and adjacent one of the road wheels, a pitman arm rotatably connected to and operated by the chuck, a bracket extending inwardly toward the vertical longitudinal mid plane of the car from the chuck, a second arm rotatably mounted in the bracket, a link interconnecting the free end of the pitman arm and the second arm intermediate the bracket and the forward end of the second arm, ball joints on the forward end of the second arm, and relatively short and long tie rods connected to the ball joints and respectively to the road wheels.

---

**2,390,232**
**CLAMP**
**Anthony Venditty, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application September 3, 1943, Serial No. 501,109**
**2 Claims. (Cl. 24—19)**

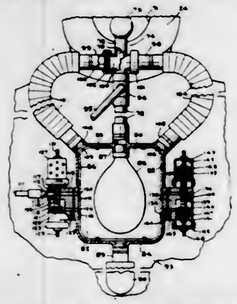
1. A hose clamp device comprising a base adapted at one end to retain one end of a clamping band, and a tensioning member pivoted on said base adjacent the outer end thereof to be swung to open position away from the base or into closed position against the outer side of the base, said member having fixed outer and inner spaced apart cross bars at one side of its pivot axis and lying in a plane which, when the clamp is in closed position, is between the pivot and base and around which bars the other end of the band



may be threaded in such manner while said member is in open position that when said member is swung into closed position for tensioning of the band said other end of the band adjacent to said tensioning member will intimately surround the outer cross bar and will overlap with pressure engagement the band portion extending around the inner cross bar to hold this band portion intimately to the inner cross bar.

---

**2,390,233**
**SEALED AVIATOR'S SUIT AND HELMET AND MEANS FOR CONTROLLING GAS PRESSURE AND OXYGEN DELIVERY THEREIN**
**John D. Akerman, Minneapolis, and Walter M. Boothby, Arthur H. Bulbulian, and William R. Lovelace, II, Rochester, Minn.**
**Application December 17, 1941, Serial No. 423,400**
**5 Claims. (Cl. 128—144)**

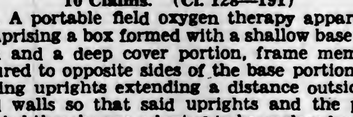


1. In association with a sealed flexible air-tight aviator's suit for use at high elevations, which covers and encloses a space sealed about the entire body of the wearer, a breathing system including a mask having its face-contacting margins within said space and sealed therefrom against the face of the wearer, a breathing line leading from said mask and terminating in a rebreathing bag, and a box enclosing the rebreathing bag and having connection with said space.

---

**2,390,234**
**SAFETY LOCKABLE COVER FOR GAS RANGES**
**Milton Applebaum, New York, N. Y.**
**Application May 31, 1943, Serial No. 489,233**
**2 Claims. (Cl. 126—42)**

1. In a gas stove, the combination with a plurality of burners having manually operable valves controlling the delivery of fuel to the individual burners, valve handles movable through a ninety degree arc and designed to open said valves when in horizontal position and to close said valves when in vertical position, a cover and burner control attachment unit, said unit being in its entirety pivotally mounted at the rear of said gas stove and being movable between open and closed positions relative to said burners, a locking bar attached to and being horizontally slidably mounted in said cover and comprising cam means positioned in spaced-apart relation and in alinement with said valve handles, said bar having



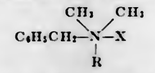
openings permitting surface portions on said cams to engage with said handles to cause movement of said handles downwardly, said bar having additional means which engage portions of the valves when the locking bar is horizontally slid on the cover after the cover is in closed position, said cover and burner control attachment being actuated externally of said stove, and latch means engageable within said cover to retain said cam means in alinement with said valve handles and to retain said additional means in engagement with said valve portions to thereby lock said bar and cover to said stove.

---



**2,390,235**
**TEXTILE TREATMENT**
**Kenneth H. Barnard, Short Hills, N. J., and Boris Frankfurt, New York, N. Y., assignors to Pacific Mills, Boston, Mass., a corporation of Massachusetts**
**No Drawing. Application April 23, 1945, Serial No. 589,930**
**4 Claims. (Cl. 117—62)**

1. The method of imparting improved wash resistance to a textile material, which comprises applying to the material an alkaline solution of an alkali-soluble and acid-insoluble cellulose ether, then applying an acid to insolubilize said cellulose ether, and thereafter applying to the material an aqueous dispersion of a quaternary ammonium salt having the formula

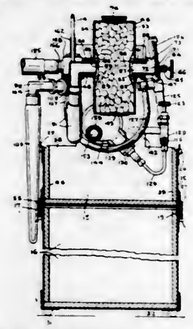


wherein X is a monovalent acid radical and R is an alkyl group having at least 8 carbon atoms.

---

**2,390,236**
**PORTABLE FIELD OXYGEN THERAPY APPARATUS**
**Walter M. Boothby and William Randolph Lovelace, II, Rochester, Minn.**
**Application March 23, 1942, Serial No. 435,916**
**10 Claims. (Cl. 128—191)**

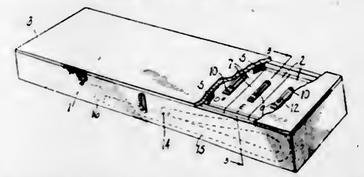
5. A portable field oxygen therapy apparatus, comprising a box formed with a shallow base portion and a deep cover portion, frame members secured to opposite sides of the base portion and having uprights extending a distance outside of said walls so that said uprights and the parts carried thereby are adapted to be enclosed within the cover portion, means for controlling the administering of oxygen secured to said uprights so as to be exposed above the upper limits of the



base portion, and means removably securing the cover member to the base portion.

---

**2,390,237**
**TUNING APPARATUS FOR MUSICAL INSTRUMENTS**
**Niles Bryant, Augusta, Mich.**
**Application May 21, 1943, Serial No. 487,867**
**6 Claims. (Cl. 84—456)**



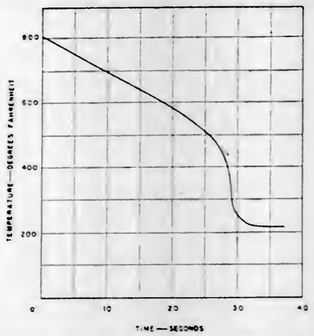
1. A tuning device comprising a rectangular box-like resilience chamber unit formed of wood and having a one-piece top with a slot therein opening to the chamber, a slotted reed plate mounted on the top of said resilience chamber top piece and having a reed mounted on the outer side thereof for vibration in the slot thereof, the slot of the reed plate opening to the slot of said resilience chamber, the capacity of said resilience chamber being such as to permit free vibration of the reed under substantially varying air pressures without altering the pitch, the resilience chamber having an inlet opening on one end thereof, and a flexible air tube of substantial length provided with a mouthpiece at its outer end and with a coupling nipple detachably engageable with said inlet opening of said resilience chamber.

---

**2,390,238**
**QUENCHING OF ALUMINUM-MAGNESIUM ALLOYS**
**Walter A. Dean, Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 1, 1943, Serial No. 474,323**
**11 Claims. (Cl. 148—21.1)**

1. A method of heat treating and quenching articles of aluminum-magnesium alloys to obtain both high resistance to stress corrosion and high tensile properties, comprising heating said articles at a temperature and for a time sufficient to cause substantial solution of soluble constituents,

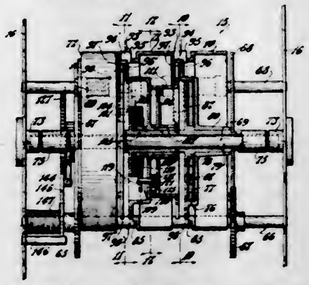
quenching said articles in boiling water to a temperature above the knee of the cooling curve of




said articles and thereafter immediately removing them from said boiling water and cooling to room temperature.

---

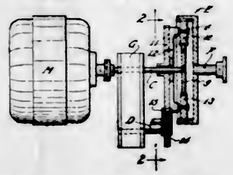
2,390,239
**COUNTING MECHANISM**
**Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**
Application April 1, 1943, Serial No. 481,384
16 Claims. (Cl. 235—144)



1. In a counter, a plurality of number wheels, a single shaft for rotatably driving said wheels in both counting and resetting directions, locking transfer means between each wheel of higher order and the wheel of next lower order for intermittently actuating the higher order wheel in a counting direction, coupling means between each wheel of higher order and its transfer means, a single driving means for rotating the wheel of lowest order from said shaft in both counting and resetting directions and enabling slip between the wheel and driving means after the wheel has been turned back to zero on rotation of the shaft in a resetting direction, driving means one for each higher order wheel for rotating such wheel in a resetting direction from said shaft and enabling slip between the driving means and wheel after the wheel has been turned back to zero on rotation of said shaft in a resetting direction and during rotation of said shaft in a counting direction, and means operable by said shaft during its initial movement of rotation following a reversal of the direction of rotation of said shaft to actuate said coupling means uncoupling each wheel of higher order from its transfer means on a change from rotation in a counting direction to rotation in a resetting direction and coupling the wheel to its transfer means on a change from rotation in a resetting direction to rotation in a counting direction.

---

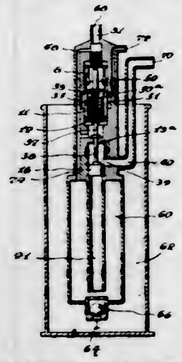
2,390,240
**POWER TRANSMITTING MECHANISM**
**Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**
Application August 21, 1943, Serial No. 499,567
4 Claims. (Cl. 74—189.5)



1. A transmission capable of delivering on the part of the output shaft driving torque in excess of that imparted to its input shaft, said transmission including a driving shaft, a driven shaft, a gearing assembly comprising three intermeshing gears, two of the gears of said assembly being coupled to move with said driving and driven shafts, the third gear moving in response to relative movements of said first named gears and providing a reaction point for the same such that power is transmitted from said driving shaft to said driven shaft, a pump unit connected to said third gear to be driven thereby, a hydraulic motor unit connected to said driving shaft, means providing an unobstructed passage from said pump to said motor whereby fluid will flow without reduction of pressure or volume from said pump to said motor, and means operable to vary the internal capacity of said motor unit, whereby said latter unit will function as a metering device to control the volume of fluid delivered by said pump.

---

2,390,241
**LIFTING APPARATUS**
**Oscar E. Dempsey, Tulsa, Okla.**
Application August 24, 1942, Serial No. 456,106
10 Claims. (Cl. 103—245)

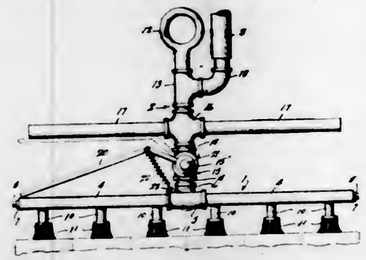


1. In a lifting apparatus, a liquid displacement chamber therefor, said apparatus comprising a housing having a manifold therein, a main valve disposed in the manifold, motive fluid inlet means communicating with the valve, means responsive to one position of the valve for directing motive fluid into communication with the liquid displacement chamber, a liquid discharge valve moveable in response to motive fluid against the liquid to allow discharge of liquid from the chamber through a plurality of outlet ports, a piston valve moveable to bleed off residue motive fluid, a slide valve, a rod, a plurality of latch members, said slide valve moveable in response to one position of the main valve to move the piston valve to a closed position relative to exhaust ports for bleeding residue motive fluid, said rod and latch members maintaining the piston valve in closed position during directing of motive fluid into communication with the liquid displacement chamber.



---

2,390,242
**ARTICLE TRANSFERRING APPARATUS**
**Robert John Engler, Beaver Dam, Wis., assignor of one-fourth to H. M. Seippel, as trustee for Peter J. Seippel, Beaver Dam, Wis.**
Application March 1, 1945, Serial No. 580,314
4 Claims. (Cl. 294—65)



1. An apparatus for transferring a plurality of cans arranged in predetermined relation from one point to another comprising a pair of manifolds disposed in parallel relation, the lower portion of each manifold defining a plurality of spaced openings, a transversely extending T-shaped pipe fitting operatively connecting the said manifolds adjacent their center portions, a pair of braces joining corresponding extremities of the manifold together to further strengthen the structure, a vertically positioned coupling, containing a two-way vacuum control valve, connected to the said T-shaped fitting, a cross-shaped pipe fitting mounted on the said coupling and supporting a pair of laterally extending handles, a second T-shaped pipe fitting vertically mounted in the said cross-shaped fitting and supporting an eye-shaped ring by which the device may be attached to a weight lifting mechanism, means for connecting the remaining orifice of the said second T-shaped fitting to a source of suction, a spring tensioned lever connected to the said vacuum control valve, said lever being capable of opening the said valve when raised to a position against one of the handles, a nipple mounted in each of the spaced openings of the said manifold, and an inverted and flexible suction cup carried by the lower end of each of the nipples, said cups being arranged to correspond to said predetermined relation of the cans to be transferred so that each may engage a surface of a can, whereby suction can be applied to said engaged surfaces by opening the said control valve.

---

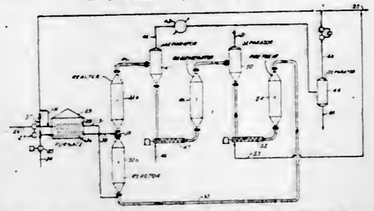
2,390,243
**HEARING AID DEVICE**
**Frank J. Faltico, Minneapolis, Minn., assignor to The Maico Company Incorporated, Minneapolis, Minn., a corporation of Minnesota**
Application July 2, 1942, Serial No. 449,427
4 Claims. (Cl. 179—107)



1. A wearable hearing aid device comprising a basic unit including a body member and an electromagnetic motor mechanism, and interchangeable cap members adapted for mounting on said body member, one of said cap members having an opening for air conduction to the ear, a diaphragm adapted to be supported by that cap in cooperative relationship to the motor mechanism, and the other cap having a thin wall and a diaphragm adapted to be supported thereby in cooperative relationship with the motor mechanism for vibrating the cap itself and adapting the cap for bone conduction use.

---

2,390,244
**CATALYTIC CONVERSION OF HYDROCARBONS**
**Duncan K. Finlayson, Bronxville, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**
Application July 31, 1941, Serial No. 404,766
1 Claim. (Cl. 196—52)



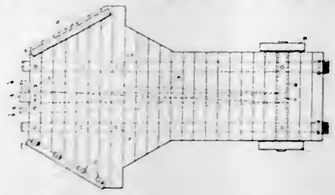
The method of reforming by catalytic dehydrogenation two different types of naphtha, said types being based on substantial differences in operating conditions required to effect a given amount of dehydrogenation which comprises passing the first type of naphtha along with a finely divided or powdered catalyst through an initial reaction zone of sufficient volume to bring about part of the desired reaction, admixing the second type of naphtha with the partly reacted catalyst-bearing first naphtha, and passing the commingled naphthas through a second zone at a pressure lower than that maintained in the first zone of sufficient volume to complete the reaction of said first naphtha and simultaneously bring about the desired reaction of said second naphtha.

---

2,390,245
**CORN CUTTER AND SLED WAGON**
**Eri I. Fester, Bloomsburg, Pa.**
Application November 10, 1943, Serial No. 509,790
1 Claim. (Cl. 56—101)

A corn harvester comprising an elongated platform entirely open at the sides, spaced longitu-

dinal supporting beams for said platform including relatively long inclined rear portions and shorter horizontal forward portions, the forward portion of said platform being horizontal and widened to form a gathering head having forwardly converging side edges, diagonally disposed blades hinged to and along the converging side edges of said head for vertical swinging movement to and from an operative position projecting laterally from the head and an inoper-



ative position resting upon the upper face of the head, the rear portion of said platform being relatively long and inclined forwardly and adapted to have a large quantity of cut corn stored thereon transversely thereof, wheeled supporting means for the rear end of said platform, ground engaging runners on the bottom surfaces of the horizontal forward portions of said beams, and draft means to hitch the harvester to a tractor for being drawn by the latter.

---

**2,390,246**
**SYRINGE**
**Marvin L. Folkman, Shaker Heights, Ohio**
**Application October 18, 1940, Serial No. 361,781**
**19 Claims. (Cl. 128—215)**

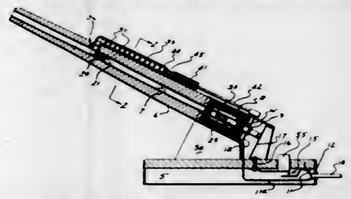


1. In syringe means of the class described, in combination, an applicator comprising a penetrating member, a chamber comprising a compartment for a medicament to be administered by the penetrating member, a second compartment containing a chemical gas generating element, a plunger between the said compartments and adapted to eject the medicament from its compartment, and means operable to cause generation of gas in the compartment containing the gas generating element, whereby said gas may act upon the plunger to expel the medicament from its compartment of the chamber, combined with separate means for exhausting gas from the gas generating compartment after said gas has moved the plunger to expel the medicament from the medicament compartment.

---

**2,390,247**
**TOY GUN**
**Walter B. Ford, Los Angeles, Calif., assignor of forty-six and two-thirds per cent to C. Bland Jamison and twenty per cent to Collins Mason, both of Beverly Hills, Calif.**
**Application July 28, 1944, Serial No. 546,975**
**2 Claims. (Cl. 124—3)**

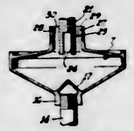
1. In a toy gun adapted to be connected into an electrical circuit, a base, a pellet-carrying tube mounted on and disposed angular to the base, the inner end portion of the tube being electrically conductive, a solenoid coil wound about the inner end portion of the tube, said coil having one of its ends conductively connected to the tube, an electrically conductive bracket carried by the base opposite the inner end of the tube, a pair of circuit wires, one of said wires being connected to the bracket and the other of said wires being



connected to the other end of the coil, an electrically conductive core longitudinally slidably mounted in the tube, said core being movable in response to gravity in contact with said bracket whereby to close the coil circuit, and stop means adjacent the outer end of the tube to arrest sliding movement of the core.

---

**2,390,248**
**SPREADER FOR WATER HEATERS**
**Ray Hackney, Glendale, Calif.**
**Application March 18, 1944, Serial No. 527,133**
**3 Claims. (Cl. 122—18)**



1. In a water heater spreader and circulator for use with storage tank type water heaters, the combination of: a bulb-like structure defining an interior chamber positioned below the tank of said water heater; a tubular connecting means for securing said structure to said tank; a riser extending downwardly from the upper portion of said tank through said tubular connecting means and into the interior of said chamber, the lower end of said riser being slotted upwardly to a point near the upper end of said tubular connecting means; a plurality of vertically extending baffles interposed between said connecting means and said riser; and a closure extending across the upper part of said connecting means to close off the annular space between said connecting means and said riser, said closure means being perforated to provide a fluid passage between the bottom portion of said tank and the spaces within said connecting means separated from the slots in said riser by said vertical baffles.

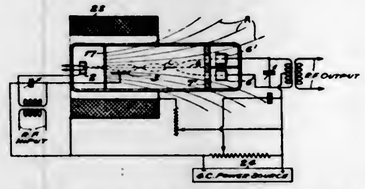
---

**2,390,249**
**INSECT-REPELLENT COMPOSITION**
**Stanley A. Hall, Mount Rainier, Md., and Bernard V. Travis and Howard A. Jones, Orlando, Fla., dedicated to the free use of the People in the territory of the United States**
**No Drawing. Application September 14, 1945, Serial No. 616,444**
**4 Claims. (Cl. 167—30)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. An insect-repellent composition comprising isopropyl cinnamate as an essential active ingredient incorporated in an inert diluent.



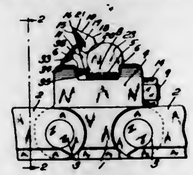
**2,390,250**
**CATHODE RAY TUBE AND CIRCUIT**
**Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application November 3, 1942, Serial No. 464,325**
**6 Claims. (Cl. 250—151)**



1. The method of influencing a stream of electrically charged particles which comprises surrounding the stream over substantially its entire path of travel with a magnetic field the axis or center of which is parallel to the direction of principal motion of the stream, but which field is more intense at and near the beginning of the path of travel of the stream than at other portions of said path, and deflecting said stream near the beginning of its travel, whereby said field produces a constantly increased deflection as the stream progresses from its point of initial deflection.

---

**2,390,251**
**CUTTER CHAIN**
**John A. Hayward, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts**
**Application April 13, 1943, Serial No. 482,875**
**5 Claims. (Cl. 262—33)**

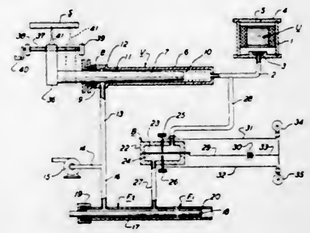


1. In a cutter chain, a chain block having a socket extending substantially at right angles to the path of travel of the chain, said socket having outwardly inclined front and rear walls near the outer end of said socket, a front bit anvil resting on the exterior of said block outside of said block socket and normally stationary with respect to said block, said anvil having a portion projecting into said socket and engaging the front inclined socket wall, a bit holder received in said socket rearwardly of said anvil and engaging the rear inclined socket wall, and means engaging said holder for adjusting the latter inwardly in said socket relative to said anvil to clamp a cutter bit in cutting position against said anvil.

---

**2,390,252**
**APPARATUS FOR DETERMINING PERMEABILITIES OF POROUS MEDIA**
**John T. Hayward, Tulsa, Okla.**
**Application December 29, 1941, Serial No. 424,815**
**3 Claims. (Cl. 73—38)**

3. Apparatus for determining the permeability of a porous medium comprising, a pair of fluid conduits connected to a common source of fluid supply and arranged in a bridge structure having the Wheatstone arrangement, each of said conduits comprising one side of said bridge structure, the first of said conduits including a pair of adjacent arms designated as a first arm and a second arm and the second of said conduits including a pair of adjacent arms designated as a third arm and a fourth arm, a pressure balancing conduit connecting the two sides of the bridge at points intermediate each pair of adjacent arms, pressure balance indicating means operatively associated with said pressure balancing conduit, said first and second arms consisting of a single elongated tubular body having a fluid inlet at one end thereof, a fluid outlet at the opposite end thereof, and an opening intermediate the ends thereof communicating with said pressure balancing conduit, a plunger extending into said tubular body through one end thereof,



the degree of clearance between said plunger and said body being such as to define a restricted fluid passageway to thus provide a first permeance in said first arm and a second permeance in said second arm, means for interposing a porous medium in said third arm, said fourth arm comprising an elongated tubular member having a fluid inlet at one end and a fluid outlet adjacent the opposite end, a tapered plunger reciprocable in the bore of said body through said opposite end, the clearance between said tapered plunger and said body being such as to define a fluid passage, means for reciprocating said tapered plunger within said body to vary the permeance of the fluid passage, an index associated with said tapered plunger for indicating the longitudinal position of said tapered plunger relative to said tubular body, and means for causing fluid to flow from said source simultaneously through said pair of conduits.

---

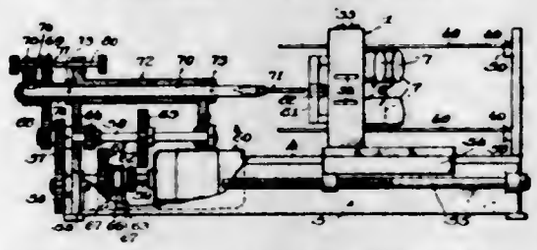
**2,390,253**
**SULPHONYL COMPOUNDS AND PROCESSES FOR THEIR PRODUCTION**
**Clyde O. Henke, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 11, 1943, Serial No. 509,900**
**9 Claims. (Cl. 260—552)**

7. Compounds conforming to the following general formula:

$$R\left(SO_2-NH-\overset{X}{\overset{\|}{C}}-NH_2\right)_n$$

wherein R represents an aliphatic hydrocarbon radical; X represents a member selected from the class consisting of oxygen and sulphur groups; and $n$ represents an integer from one to five.

2,390,254
**MILLING CUTTER UNIT AND ASSEMBLY**
William A. Henkle, Chicago, Ill.
Application October 18, 1941, Serial No. 415,531
12 Claims. (Cl. 90—13.9)

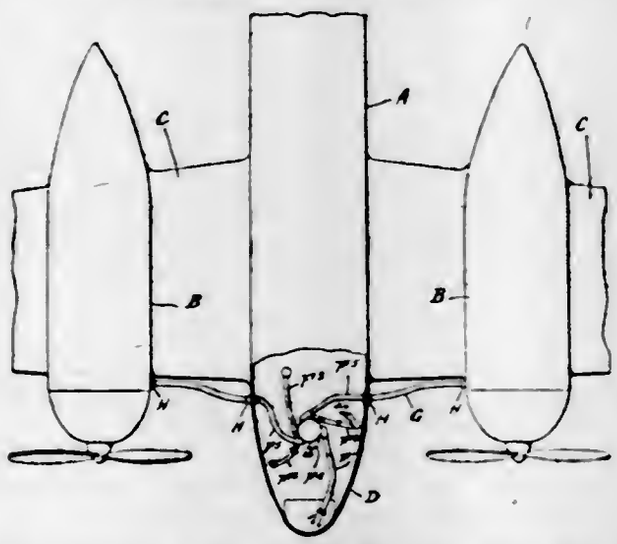


1. A milling cutter assembly comprising a frame adapted to be mounted on the bed of a lathe or the like and provided with a plurality of sides, a plurality of individual self-propelled and self-contained milling cutter units for forming tools such as gears, worms, twist drills, reamers, taps and the like, adjustably mounted in the sides of the frame, means for mounting a cutter unit in each side wall, means for individually adjusting each cutter unit with respect to its mounting, and means to individually guide each of the cutter units on the frame.

2. A milling cutter unit comprising a compact, self-powered and self-contained power drive assembly including a housing for mounting a cutting tool, drive mechanism in the housing for operating the cutting tool, a readily detachable motor carried by said unit and having a drive shaft adapted to be received at either side of the assembly for driving the mechanism and tool in the desired direction of rotation, and means for mounting the motor at either of the opposite sides of the housing.

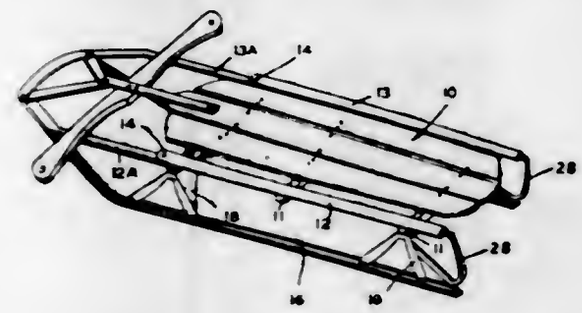
---

2,390,255
**AIRPLANE HEATING MEANS**
Frederic O. Hess, Germantown, Pa., assignor to Selas Corporation of America, a corporation of Pennsylvania
Application March 18, 1942, Serial No. 435,149
7 Claims. (Cl. 244—118)



1. A method of warming the engines of a multi-engined airplane having a fuselage and a nacelle displaced laterally from the fuselage for housing a propeller engine, which comprises heating a gaseous heat conducting medium in the fuselage independently of the engines, flowing the heated gaseous heat conducting medium from the interior of the fuselage to the interior of the nacelle through a conduit exteriorly of the airplane to warm the engine in the nacelle when the airplane is grounded, and disconnecting the conduit exteriorly of the airplane before flight of the airplane is effected.

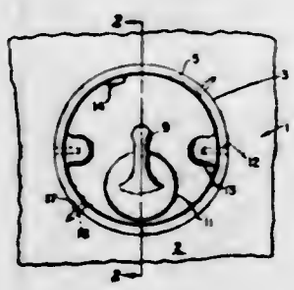
2,390,256
**COASTING SLED**
Max A. Holbrook, Coldwater, Mich.
Application June 13, 1941, Serial No. 397,847
1 Claim. (Cl. 280—12)



In a sled construction provided with a top member, with a pair of runners having rearwardly extending sharp ends, and with knees connecting said runners to said top member; a pair of wooden side rails forming a part of said top member and terminating in rearwardly projecting ends, each of said ends having a slot therein, means for protecting the user of the sled construction from bodily contacting the sharp ends of the runners, said means comprising a pair of metallic pieces, each piece having a generally upstanding part terminating in a bent end extending into and secured within the slot in one of said side rails, said piece also having a portion extending from the other end of said upstanding part in a generally upwardly and forwardly direction, said portion terminating against one of said knees and being secured thereto, said piece being secured to the extremity of said runner near the juncture of said upstanding part and said portion, whereby said pieces provide guard means for the sharp ends of said runners.

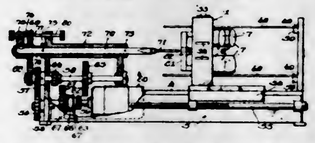
---

2,390,257
**DISAPPEARING HANGER**
Walter K. Jahn, Los Angeles, Calif.
Application August 21, 1944, Serial No. 550,467
7 Claims. (Cl. 248—294)



1. In a disappearing hanger construction, adapted to be mounted in a socket in a support presenting a substantially vertical face, the combination of a hanger frame fitting into said socket, having a peripheral wall, and having an opening through the peripheral wall in a relatively inaccessible position; a fastener to pass through said opening from the interior of said frame so as to project into the material of said support; and hanger means including a panel pivotally supported to rotate on an axis located substantially on the medial horizontal axis of said panel; said panel having hanger means projecting from one face of the same; and a stop associated with the frame for maintaining the panel in a rotated, inverted, position with the hanger means concealed in the socket.

**2,390,254**
**MILLING CUTTER UNIT AND ASSEMBLY**
**William A. Henkle, Chicago, Ill.**
**Application October 18, 1941, Serial No. 415,531**
**12 Claims. (Cl. 90—13.9)**

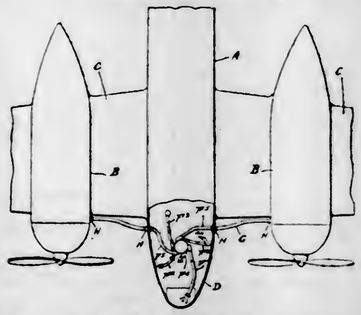


1. A milling cutter assembly comprising a frame adapted to be mounted on the bed of a lathe or the like and provided with a plurality of sides, a plurality of individual self-propelled and self-contained milling cutter units for forming tools such as gears, worms, twist drills, reamers, taps and the like, adjustably mounted in the sides of the frame, means for mounting a cutter unit in each side wall, means for individually adjusting each cutter unit with respect to its mounting, and means to individually guide each of the cutter units on the frame.

2. A milling cutter unit comprising a compact, self-powered and self-contained power drive assembly including a housing for mounting a cutting tool, drive mechanism in the housing for operating the cutting tool, a readily detachable motor carried by said unit and having a drive shaft adapted to be received at either side of the assembly for driving the mechanism and tool in the desired direction of rotation, and means for mounting the motor at either of the opposite sides of the housing.

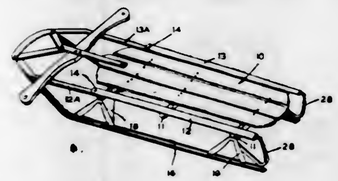
---

**2,390,255**
**AIRPLANE HEATING MEANS**
**Frederic O. Hess, Germantown, Pa., assignor to Seias Corporation of America, a corporation of Pennsylvania**
**Application March 18, 1942, Serial No. 435,149**
**7 Claims. (Cl. 244—118)**



1. A method of warming the engines of a multi-engined airplane having a fuselage and a nacelle displaced laterally from the fuselage for housing a propeller engine, which comprises heating a gaseous heat conducting medium in the fuselage independently of the engines, flowing the heated gaseous heat conducting medium from the interior of the fuselage to the interior of the nacelle through a conduit exteriorly of the airplane to warm the engine in the nacelle when the airplane is grounded, and disconnecting the conduit exteriorly of the airplane before flight of the airplane is effected.

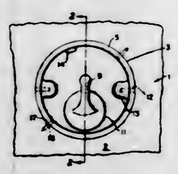
**2,390,256**
**COASTING SLED**
**Max A. Holbrook, Coldwater, Mich.**
**Application June 13, 1941, Serial No. 397,847**
**1 Claim. (Cl. 280—12)**



In a sled construction provided with a top member, with a pair of runners having rearwardly extending sharp ends, and with knees connecting said runners to said top member; a pair of wooden side rails forming a part of said top member and terminating in rearwardly projecting ends, each of said ends having a slot therein, means for protecting the user of the sled construction from bodily contacting the sharp ends of the runners, said means comprising a pair of metallic pieces, each piece having a generally upstanding part terminating in a bent end extending into and secured within the slot in one of said side rails, said piece also having a portion extending from the other end of said upstanding part in a generally upwardly and forwardly direction, said portion terminating against one of said knees and being secured thereto, said piece being secured to the extremity of said runner near the juncture of said upstanding part and said portion, whereby said pieces provide guard means for the sharp ends of said runners.

---

**2,390,257**
**DISAPPEARING HANGER**
**Walter K. Jahn, Los Angeles, Calif.**
**Application August 21, 1944, Serial No. 550,467**
**7 Claims. (Cl. 248—294)**



1. In a disappearing hanger construction, adapted to be mounted in a socket in a support presenting a substantially vertical face, the combination of a hanger frame fitting into said socket, having a peripheral wall, and having an opening through the peripheral wall in a relatively inaccessible position; a fastener to pass through said opening from the interior of said frame so as to project into the material of said support; and hanger means including a panel pivotally supported to rotate on an axis located substantially on the medial horizontal axis of said panel; said panel having hanger means projecting from one face of the same; and a stop associated with the frame for maintaining the panel in a rotated, inverted, position with the hanger means concealed in the socket.

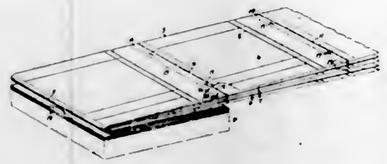


**2,390,258**
**HYDRAULIC PRESSURE FLUID**
**Donald L. Katz and Arnulf K. Esterer, Ann Arbor, Mich., assignors to Hydraulic Brake Company, Detroit, Mich., a corporation of California**
**No Drawing. Application May 24, 1943, Serial No. 488,272**
**1 Claim. (Cl. 252—78)**

A hydraulic pressure fluid having approximately 10.00% of an aryl sulfonamide-formaldehyde resin, approximately 5.00% of tricresyl phosphate, approximately 15% of an ester of pentaerythritol and organic acid, approximately 69.75% of monoethyl ether of diethylene glycol, approximately .10% of diethanolamine, and approximately .15% of diamylamine phosphate.

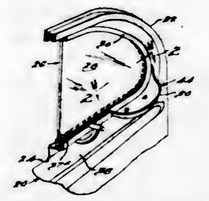
---

**2,390,259**
**CARBON INTERLEAVED RECORD ASSEMBLY**
**James Gordon Kerr, Washington, D. C., assignor to Moore Business Forms, Inc., a corporation of Delaware**
**Application May 19, 1944, Serial No. 536,291**
**5 Claims. (Cl. 282—11.5)**



3. In a manifolding assembly in combination, a plurality of long continuous record and transfer strips assembled in transfer relation and having transverse weakened severance lines whereby the assembly may be severed into form lengths or leaf sets, longitudinally spaced binding means binding said strips together respectively adjacent to said weakened severance lines, supplemental transverse weakened severance lines respectively adjacent to and inside of said binding means providing for severance of the strips from the respective binding means whereby the strips may be separated to expose underlying strips for making erasures or for other purposes, means including a selective grip formation in each said set of leaves whereby the record leaves of a severed set may be gripped to the exclusion of the transfer leaves thereof and selectively severed along certain of said supplemental weakened lines and to effect selective separation of the record and transfer leaves of a set severed from the assembly along said first mentioned weakened severance lines, and means including outwardly deviating parts of said supplemental weakened lines of the transfer strips for forming outwardly projecting selective grip tabs on the transfer leaves upon severance along said supplemental weakened severance lines, said outwardly projecting grip tabs on the transfer leaves being spaced from said selective grip formations of each said set of leaves whereby the record and transfer leaves can be respectively selectively gripped at said selective grip formations and at said grip tabs to effect selective separation thereof when the set of leaves is severed along said supplemental weakened lines.

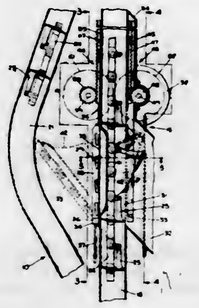
**2,390,260**
**AUTOMOTIVE VEHICLE**
**Harold A. King, Birmingham, Mich.**
**Application January 21, 1944, Serial No. 519,214**
**9 Claims. (Cl. 296—44)**



2. In an automobile body door of the class wherein a window opening is provided therein and a ventilating window is mounted in the forward portion of the window opening for pivotal movement about a vertically directed axis located between the front and rear edges of said window, the combination with said door and window of a ledge projecting laterally inwardly from said door and extending longitudinally of said door from a point adjacent said pivotal axis to the forward edge of said window opening on approximately the level of the lower edge of said window opening, the inner marginal portion of said ledge curving upwardly and terminating in a resilient lip arranged in intersecting relation with respect to the path of movement of the lower forward edge of said window, said lip being sufficiently yieldable to permit said lower edge of said window to override it without permanent deformation thereof when said window is opened to a material angular extent.

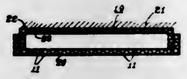
---

**2,390,261**
**CONVEYER**
**Franklin J. Le Roy, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**
**Application September 11, 1943, Serial No. 502,006**
**8 Claims. (Cl. 198—169)**



5. A conveyer casing section forming a substantially totally enclosing working leg on opposite sides of a discharge opening in one wall thereof and adapted to confine material scraped therethrough, a second opening in said leg opposite said first named opening, a gate for each opening, and interlocked mechanism for simultaneously opening and closing each gate.

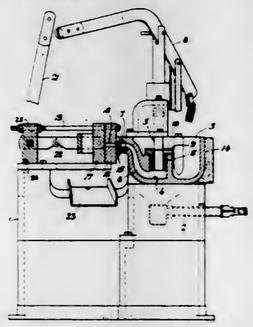
**2,390,262**
**ACOUSTICAL STRUCTURE**
**Jacob Mazer, Miami Beach, Fla.**
**Application August 15, 1941, Serial No. 406,986**
**3 Claims. (Cl. 20—4)**



1. The combination with a wall, of a facing therefor comprising a sound-absorbing unit of flexible corrugated boards of the type having a smooth facing sheet, one of which is secured flatwise to the outermost surface of the wall and another of which is connected to the said one board in outwardly-spaced relation thereto, throughout substantially the entire area, the said connections between the boards including marginal edge portions on one of the boards bent perpendicularly toward the other board and secured thereto.

---

**2,390,263**
**DIE-CASTING MACHINE**
**Aubrey Robert Mills, Southgate, London N. 14, England**
**Application July 6, 1942, Serial No. 449,893**
**In Great Britain May 20, 1942**
**6 Claims. (Cl. 22—68)**



1. In a die-casting machine, a frame, a melting pot carrying molten metal mounted thereon, a goose neck formation integral with said melting pot, a removable nozzle seated in the free end of said goose neck, a die-assembly, clamping ing means on said melting pot for mounting said die assembly into juxtaposition against said nozzle and a pump for feeding molten metal from the melting pot through the nozzle into said die-assembly.

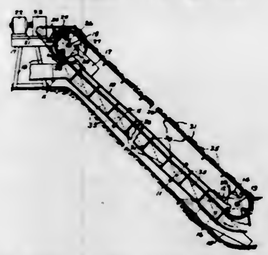
---

**2,390,264**
**SOIL CORRECTIVES**
**Albert C. Mohr, Arcadia, Calif., assignor to Stauffer Chemical Company, a corporation of California**
**No Drawing. Application March 5, 1943, Serial No. 478,131**
**6 Claims. (Cl. 47—58)**

2. A process for treating soil comprising distributing on the soil and working therein a dry granular coke produced by partially thermally desulphurizing a sulphuric acid sludge by heating said sludge derived from petroleum treatment in the substantial absence of air to form a dry granular coke substantially free of oily hydrocarbons and containing water soluble sulphuric acid and removing the coke formed by said thermal desulphurization while it contains a substantial quantity of water soluble sulphuric acid.

---

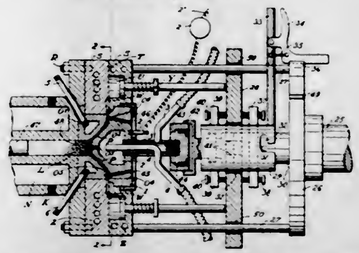
**2,390,265**
**LIQUID LIFT**
**Charles A. Neely, Seattle, Wash., assignor of forty per cent to Hugh J. Sweeney, Seattle, Wash.; Sarah L. Langley administratrix of said Charles A. Neely, deceased**
**Application September 4, 1944, Serial No. 552,674**
**7 Claims. (Cl. 103—73)**



1. In a liquid lift, an upwardly extending tube; an endless link belt having a portion thereof movable continuously in an upward direction through said tube; and a plurality of spaced apart two piece folding flights on said link belt movable upwardly through said tube and supported at substantially right angles to the axis of said tube while in the tube and having substantially liquid tight contact with the walls of said tube.

---

**2,390,266**
**MANUFACTURE OF MOLDED COMPOSITION FRICTION BODIES**
**Emil E. Novotny, Prospectville, Pa., assignor to Durite Plastics, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania**
**Original application July 2, 1943, Serial No. 493,192. Divided and this application August 21, 1943, Serial No. 499,469**
**11 Claims. (Cl. 18—55)**



1. The method of making molded composition friction or tractive-surface bodies which consists in mixing asbestos fibres with a thermosetting resin, in delivering the mix under a relatively low pressure into a heating chamber of large area and volume and which area and volume increase in the direction of flow of the mix material, in flowing said mix through said chamber under said relatively low pressure, and into a mold space, heating said mix while in transit in said chamber, the heating of the mix in said chamber functioning to form therein a homogeneous fibre-resin impregnated friction body brought to a moldable condition, and flowing said mix from said chamber at substantially its region of greatest area and volume into said mold space, said region of the chamber of greatest area and volume being in direct communication with the mold space whereby the mix flows from said region directly in the mold space.



---

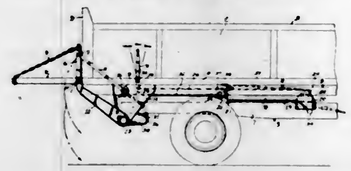
**2,390,267**
**SKI POLE**
**William Ernest Pearce, Montreal, Quebec, Canada**
**Application September 28, 1944, Serial No. 556,223**
**In Canada September 6, 1944**
**3 Claims. (Cl. 280—11.37)**



1. In ski poles, a ski pole, outer and inner tubular sections forming said pole, a ring bolt adapted to encircle said inner tubular section and having a threaded portion, a locking collar having an opening therein and adapted to encircle said outer and inner tubular sections and said ring bolt, and means for drawing said locking collar into gripping position with said tubular sections.

---

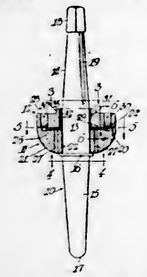
**2,390,268**
**TRUCK ELEVATOR**
**Raymond A. Penney, Minneapolis, Minn., assignor to St. Paul Hydraulic Hoist Company, Minneapolis, Minn., a corporation of Michigan**
**Application June 2, 1944, Serial No. 538,495**
**9 Claims. (Cl. 214—77)**



1. In a load raising and lowering mechanism for a truck, a member movable in a lengthwise direction with respect to the truck and an actuating means for said member for moving the same in either direction, a load handling device operatively connected to said member and adapted to be raised and lowered with respect to the truck in response to opposite movements of said member, and latch means releasably engageable with said movable member as it substantially completes its movement in one direction to raise the load, said latch means being operative when engaged to lock the movable member against movement in the opposite direction to thereby maintain the load in a raised position while relieving said actuating means of strain.

---

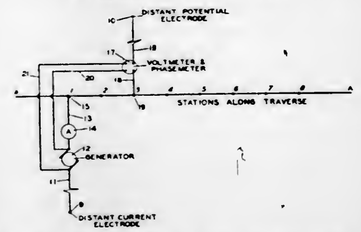
**2,390,269**
**FILTER DEVICE FOR COFFEE MAKERS**
**Amos J. Peterson, Berwyn, Ill., assignor to Club Aluminum Products Co., Chicago, Ill., a corporation of Delaware**
**Application August 14, 1944, Serial No. 549,327**
**10 Claims. (Cl. 210—162)**



1. A filter device for a coffee maker of the kind described and embodying therein an elongated supporting rod, a valve-like body on said rod between its ends and a member mounted on said rod above said body for an axial and a turning movement, said body and member having normally engaging faces, said body and said member each having a series of passageways therethrough arranged in a direction generally lengthwise of but different distances from said rod, there being an annular groove in one of said faces in line with one of said series of passageways, and means on one of said faces providing communication between said annular groove and the other series of said passageways.

---

**2,390,270**
**METHOD OF SURFACE PROSPECTING**
**Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application January 5, 1942, Serial No. 425,701**
**2 Claims. (Cl. 175—182)**

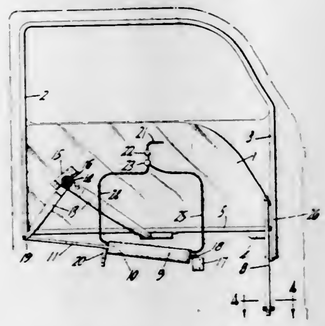



1. The method of electrical prospecting comprising establishing a sequence of stations at spaced points along a traverse on the surface of the earth, supplying a constant low frequency alternating electric current to a fixed earthed current electrode at a distance from said stations at least 20 times the distance between adjacent sta-

tions and to each station in succession to cause flow of electric current therebetween, the distance between each of said stations and the earthed current electrode being substantially constant for each successive station; and successively measuring the potential at each of a series of stations adjacent each station to which current is supplied, relative to a fixed earthed potential electrode spaced from said stations at a distance at least 20 times the distance between adjacent stations, said earthed potential electrode being spaced at a great distance from said earthed current electrode.

---

2,390,271
**WINDOW OPERATOR**
**Anton Rappl, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.**
**Original application September 17, 1940, Serial No. 357,140. Divided and this application September 10, 1941, Serial No. 410,287**
**3 Claims. (Cl. 296—44)**



1. Operating mechanism for the door windows of a motor vehicle having an inwardly curved side wall design, comprising in combination with a vertically slidable window panel having one vertical side shorter than the other, straight guideways for the vertical sides, means for actuating the window panel, a guide carriage, a bracket arm fixed at one end on and depending from adjacent the shorter vertical side of the window and on its free end supporting the carriage, and a fixed track on which the carriage operates, said track being curved substantially to conform to the wall curvature with the straight guideways extending substantially tangentially from the curved track, the depending bracket arm being flexible laterally in the direction of track curvature to move the carriage in conformity to the curvature thereof.

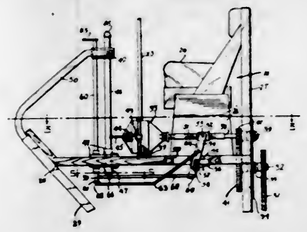
---

2,390,272
**PURIFICATION OF GELATINOUS HYDROXIDES**
**August H. Riesmeyer and Vernon M. Stowe, Collinsville, Ill., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application September 29, 1943, Serial No. 504,268**
**5 Claims. (Cl. 23—143)**

1. The process of removing impurities from alkaline gelatinous hydroxides, comprising the steps of washing the hydroxide with water, adding an acid to the hydroxide in an amount insufficient to peptize the hydroxide, partially drying the hydroxide, and subsequently washing the resulting product.

---

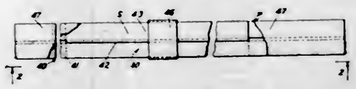
2,390,273
**COMBINE STEERING MECHANISM**
**Martin Ronning, St. Louis Park, and Kenneth M. Keith, Minneapolis, Minn., assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware**
**Application April 8, 1944, Serial No. 530,088**
**4 Claims. (Cl. 180—79.3)**



2. Steering angle indicating and limiting means for a power steering mechanism including a power driven reversible clutch and a reversibly rotatable shaft actuated by the clutch, a steering truck adapted to be angled in opposite directions by the shaft, and a steering control for engaging and disengaging the clutch, comprising a nut member threaded on the shaft and movable in opposite directions therealong responsive to relatively opposite rotations thereof, an arm supported for swinging movements adjacent the shaft and connected to said nut member for translating said movements thereof to swinging movements of the arm, a steering angle indicating member and means connecting the same to the arm for actuating the indicating member in accordance with the direction in which said arm swings, a steering angle limiting means operative upon actuation to adjust said steering control and halt the rotation of the shaft in either direction, and said limiting means being connected to the arm for stopping the rotation of the shaft in accordance with the magnitude of the swinging movements of the arm.

---

2,390,274
**PINCH TYPE BENDING ROLL METHOD AND MEANS**
**Jess C. Rose and George E. Stankey, Los Angeles, Calif., assignors to Bardwell & McAlister, Los Angeles, Calif., a corporation of California**
**Application July 25, 1942, Serial No. 452,306**
**10 Claims. (Cl. 153—56)**



1. The method of bending relatively thin linearly extended sheet metal stock whose cross section includes a longitudinal web that is parallel to the plane of the bend, and a flange joined to an edge of said web and disposed at right angles thereto, by means of a pinch type bending roll, that includes packing a pair of linearly extended spring pads against opposite surfaces of said web, and with the pad on one side of the web abutting said flange, said spring pads being flexible in the direction the stock is to be bent, applying a flat spring leaf against the exposed face of said flange, so as to pack said flange between the one spring pad and said spring leaf, and passing the stock together with said pair of spring pads and leaf spring through the bending roll.



---

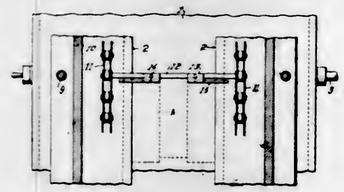
2,390,275
**CLARINET ATTACHMENT**
**Clinton A. Runyon, Jr., Chicago, Ill.**
**Application October 11, 1943, Serial No. 505,758**
**7 Claims. (Cl. 84—382)**



1. The combination with a Boehm system clarinet having adjacent finger holes and a hole between them with a key normally open for closing it, the key having an angular supporting arm, and a key arm attachment comprising a block with a slot to fit over the arm and a projection from the block extending adjacent one of the finger holes so that the key may be closed by the same finger which closes one of the holes.

---

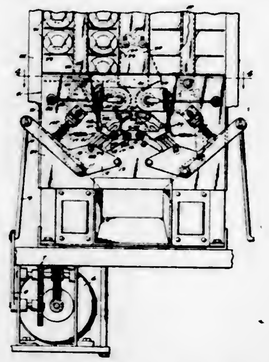
2,390,276
**CONVEYER STRUCTURE**
**Henry Sieb, Hammond, Ind.**
**Application September 20, 1944, Serial No. 554,897**
**4 Claims. (Cl. 198—168)**



1. The combination with a conveyer for books that has a bar extending across the rear ends of a group of books to move them ahead, of blocks detachably mounted on the bar in spaced relation to each other to engage some of the books while the remainder contact the bar in the spaces between the blocks and thus cause the books to be displaced lengthwise of each other.

---

2,390,277
**WIENER VENDING MACHINE AND PROCESS**
**Carl R. Simpkins, Los Angeles, Calif., assignor to Samuel Verner McConnell, Seattle, Wash.**
**Application November 20, 1939, Serial No. 305,318**
**11 Claims. (Cl. 219—19)**



7. In a machine for broiling and vending wiener sandwiches, a compartment for a wiener sandwich, a stationary cooking stage removed therefrom, means for presenting the sandwich from the compartment to said cooking stage, current-carrying electrodes, means for bringing said electrodes from a position normally inoperative to the presented sandwich into contact with the wiener of the sandwich, means for locking said electrodes in contacting position, a solenoid, means responsive to the action of said solenoid for unlocking said electrodes, and means for withdrawing said electrodes from contact with said sandwich.

---

2,390,278
**PROCESS FOR THE PRODUCTION OF TROPIC ACID**
**Meyer Sletzinger, Bronx, N. Y., and Grover C. Paulsen, Jr., Harrisonburg, Va., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application April 30, 1943, Serial No. 485,152**
**8 Claims. (Cl. 260—473)**

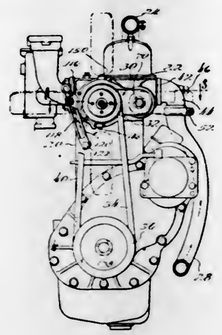
1. Process comprising hydrogenating a lower alkyl ester of phenyl-α-hydroxymethlyene acetic acid in the presence of Raney nickel.

---

2,390,279
**INTERNAL-COMBUSTION ENGINE**
**Harold G. Smith, Chicago, Ill., assignor to The Buda Company, Harvey, Ill., a corporation of Illinois**
**Application September 10, 1943, Serial No. 501,772**
**9 Claims. (Cl. 123—175)**

6. An internal combustion engine, comprising a cylinder head having a water inlet in a side thereof and adapted for connection to the bottom of a radiator, a water outlet in an end thereof and adapted for connection to the top of a radiator, a water outlet port in said end and communicating with said inlet, and a water inlet port in said end and communicating with said outlet opening by way of the engine water jacket, said ports being arranged concentrically about a com-

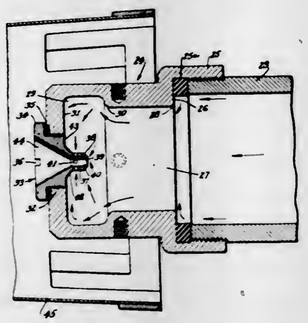
mon center and each being of arcuate confirmation, a water pump housing having correspondingly arranged ports, means for attaching said housing to said block for pivotal movement about said center, pumping means for circulating water through said ports, water jacket and radiator, a pulley carried by said housing for driving said



pumping means, said pulley being eccentrically mounted with respect to said attaching means, and means for securing said housing in various adjusted positions about said attaching means.

---

**2,390,280**
**APPARATUS FOR PROJECTING LIQUID JETS**
**Lewis G. Morris Timpson, Plainfield, N. J., assignor to Pyrene Development Corporation, a corporation of Delaware**
**Application December 26, 1942, Serial No. 470,125**
**13 Claims. (Cl. 261—116)**



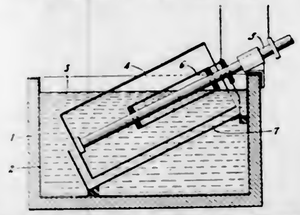
1. A nozzle for projecting a jet of liquid comprising a chamber of relatively large diameter arranged to receive a stream of liquid under pressure, discharge means in a wall of said chamber, said means having a passage therethrough of a diameter not more than about one-eighth that of said chamber, said passage having a sharp edge at its inlet, and said means having apertures communicating with said passage at an angle to the axis thereof and intermediate the ends thereof.

**2,390,281**
**BRUCINE-LACTONE COMPOUND**
**Max Tishler, Rahway, and Ralph H. Beutel, Newark, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application November 27, 1943, Serial No. 512,056**
**5 Claims. (Cl. 260—236)**

1. The process that includes the step comprising reacting racemic α-hydroxy-β-β-dimethyl-gamma-butyrolactone with brucine in an essentially inert, neutral liquid solvent and removing the brucine-l-lactone complex formed.

---

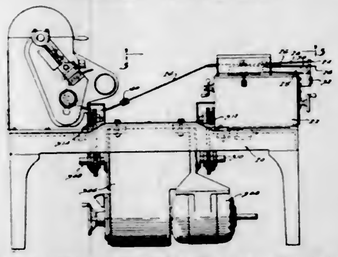
**2,390,282**
**ELECTROLYTIC BARREL PICKLING AND POLISHING**
**Sam Tour and Albert E. Howe, New York, N. Y., assignors, by mesne assignments, to said Tour**
**Application October 19, 1940, Serial No. 361,930**
**3 Claims. (Cl. 204—140)**



1. In an anodic electrolytic treatment of the class consisting of electropickling and electropolishing of metal articles in an electropolishing sulphuric acid-hydrofluoric acid-water electrolyte, the steps of immersing in said electrolyte a barrel electrode of copper, bringing the metal articles into contact with the inside surfaces of the barrel, making the barrel the anode while passing a current through the barrel, articles and electrolyte at a voltage and current density effective in said electrolytic treatment and under conditions which passivate the barrel with respect to the passage of current, and rotating the barrel to produce relative movement and mechanical contact between the articles and barrel to establish electrical contact between the barrel and the articles.

---

**2,390,283**
**SPRING FORMING MACHINE**
**Howard W. Wilkins, Warren, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware**
**Application September 9, 1942, Serial No. 457,736**
**21 Claims. (Cl. 140—105)**



1. In a machine for bending a wire laterally into sinuous form, means mounting a plurality of



bell cranks for rotation about spaced centers, means providing cam tracks for each of said centers for engaging one arm of the bell cranks for controlling the position of the other arm, said other arm advancing alternately between and beyond the medial line between said centers for forming the wire as it is drawn therebetween, and means for adjustably varying the shapes of said cam tracks for changing the degree of movement of said arms for changing the sinuous form of said wire.

---

**2,390,284**
**DERRICK STRUCTURE**
**Wayland B. Woody and Merle G. Scott, Tulsa, Okla., assignors to Franks Manufacturing Corporation, Tulsa, Okla., a corporation of Oklahoma**
**Original application April 15, 1942, Serial No. 439,056. Divided and this application August 14, 1944, Serial No. 549,414**
**4 Claims. (Cl. 304—14)**

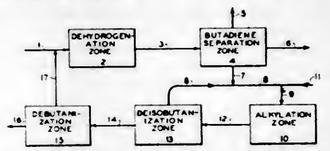


1. In a derrick structure having a platform mounted thereon to swing generally between horizontal and vertical positions, an improved hinge structure for connecting said platform to said derrick structure comprising, a pair of laterally spaced rails vertically supported from said derrick structure, said rails having spaced edge flanges extending longitudinally thereof forming guide channels in said rails, a plurality of longitudinally spaced journals positioned along said channels, hinge arms extending from the sides of said platform toward said channels, pairs of vertically spaced rollers carried by said hinge arms and rollably disposed in said channels, a pivoted connection between said hinge arms and the sides of said platform, and removable locking members extending through one of the rollers of each pair and a selected one of said journals along each of said channels.

---

**2,390,285**
**CONVERSION OF HYDROCARBONS**
**Gordon B. Zimmerman, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application February 11, 1942, Serial No. 430,511**
**15 Claims. (Cl. 260—680)**

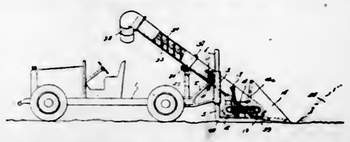
3. A hydrocarbon conversion process which comprises subjecting a mixture containing isobutane, normal butane, and olefins to alkylation whereby to alkylate the isobutane by the olefins, separating normal butane from the products of said alkylation, dehydrogenating the separated normal butane to butadiene, relatively small amounts of iso $C_4$ hydrocarbons also being formed in the dehydrogenation step incidental to the formation of said butadiene, separating from the dehydrogenation products butadiene and a




fraction containing normal butane, isobutane, normal butylene and isobutylene, and supplying at least a portion of the last mentioned fraction to said alkylation step.

---

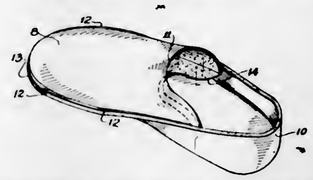
**2,390,286**
**PORTABLE ELEVATOR**
**Robert Clinton Adams, El Cerrito, Calif.**
**Application December 6, 1944, Serial No. 566,788**
**4 Claims. (Cl. 198—7)**



1. A portable grain elevator for elevating grain piled on the ground and delivering it to a desired receptacle comprising a mobile chassis, a platform at the rear of said chassis, means for raising or lowering said platform with respect to said chassis, scoop means adjustably mounted on said platform and adapted to be adjusted to substantially ground-engaging position when the platform is lowered, a worm conveyor extending transversely of said scoop means and positioned therein, said worm conveyor being adapted to catch up grain forced into said scoop means when the mobile chassis is moved rearwardly with the platform and scoop means in depressed positions into a pile of grain on the ground, and a riser worm conveyor communicating with said transverse worm conveyor and supported in vertically inclined position with its upper end adapted to be positioned over the receptacle into which it is desired to deliver the grain.

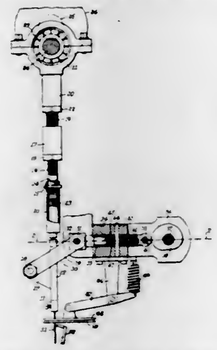
---

**2,390,287**
**SACCULATED ARTICLE OF FOOTWEAR**
**Elijah F. Allen, Los Angeles, Calif.**
**Application February 19, 1945, Serial No. 578,729**
**1 Claim. (Cl. 36—11)**



As an article of manufacture, an article of footwear having a sole portion and an upper which are parts of a single piece of leather, the front and side edges of said upper portion being located slightly inwardly from the corresponding edge portions of said sole portion.

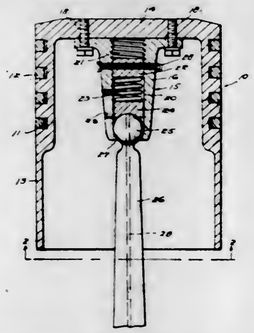
**2,390,288**
**NEEDLEBAR MECHANISM FOR SEWING MACHINES**
**Leslie Mark Ballamy, Caterham-on-Hill, and Richard Hasell Sheepshanks, Eyke, Woodbridge, England**
**Application May 11, 1942, Serial No. 442,575**
**In Great Britain July 11, 1941**
**3 Claims. (Cl. 112—221)**



1. Needle bar mechanism for a sewing machine, comprising a rigid needle bar, means at one end of the bar to receive a needle, a continuously rotatable crankshaft, a crank on said shaft pivotally carrying that end of the needle bar remote from the needle, and a link pivoted at one end to the needle bar adjacent the needle and extending laterally from said needle bar, a locating member, the opposite end of said link being pivotally connected to the locating member, said crank and said link forming the sole supporting and locating means for the needle bar.

---

**2,390,289**
**SELF-ALIGNING PISTON**
**James E. Beckwith, Kosmos, Wash.**
**Application September 25, 1944, Serial No. 555,675**
**1 Claim. (Cl. 309—20)**



In a device of the character described, a piston, a connecting rod, a bearing detachably secured within said piston and having a bore therein, threads in the upper portion of said bore, means forming a socket at the extremity of said bore, means forming a keyhole aperture in the side wall of said bearing and extending into said socket, a ball head on said connecting rod adapted to be passed through said aperture and seat in said socket, said socket being tapered at its extremity to a diameter less than that of said ball, resilient means in said bore biasing said ball outwardly with respect to said socket, said resilient means comprising a spring plug threadedly engaging in said threaded portion of said bore, a socket cap slidable in the smooth portion of said bore, and a compression spring therebetween, and means including a cotter pin passed through registering apertures in said plug and the walls of said bore for securing said plug against rotation in said threaded portion of said bore.

---

**2,390,290**
**RESILIENT WHEEL CUSHION**
**John D. Beebe, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application August 1, 1942, Serial No. 453,185**
**3 Claims. (Cl. 295—11)**

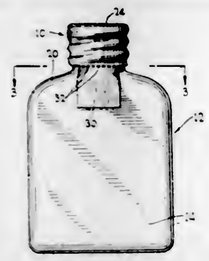


1. In a resilient wheel a cushion structure mounted between adjacent overlapping rim and hub extensions of the wheel, said cushion structure comprising a pair of elements of resilient rubber-like material, a pair of plates adhered to adjacent faces of said elements and supported thereby in a floating manner, and means between said plates interlocking the same for movement together and relative to both said rim and hub extensions, the interlocking means holding said plates in spaced-apart relation providing a ventilating passage between said plates.

---

**2,390,291**
**RECEPTACLE CLOSURE**
**Stanley Blackman, Brooklyn, N. Y.**
**Application June 15, 1942, Serial No. 447,011**
**3 Claims. (Cl. 215—62)**

1. A self-form-maintaining receptacle closure which is adapted to be screwed on a receptacle having a threaded neck, said closure comprising a crown, a rim having a screw thread formed therein which is adapted to engage the threaded neck, an integral self-form-maintaining deformable portion depending from an edge portion of the rim, said deformable portion being adapted to be caused to closely follow the contour of the portion of the receptacle beneath the threaded neck and to be permanently and rigidly adhesively secured thereto, and a weak portion intermediate said rim and said depending portion, which weak portion is adapted to be sheared when a torque is
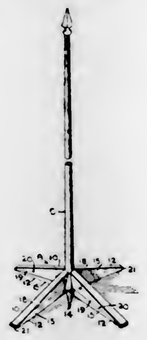


applied to rotate the closure for removing same from the receptacle.

---



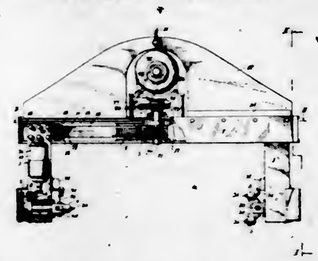
**2,390,292**
**HOLDER FOR UPRIGHT STAFFS AND THE LIKE**
**Frank A. Burton, Poplar Bluff, Mo.**
**Application January 17, 1944, Serial No. 518,614**
**3 Claims. (Cl. 248—43)**



1. In a support, for a vertically-disposed staff and the like, a pair of crossing, substantially like, continuous portions, each portion comprising a pair of upwardly-converging legs and a joining section of springy material extending from the inner lowermost end of one leg to the like end of the opposite leg, each leg having a bottom wall section, upwardly converging side wall sections joining the sides of the bottom wall section, and a top wall section joining the sides of the side wall sections and sloping upwardly and inwardly towards the center of said support, the uppermost end of each of said top wall sections being provided with an arcuate reentrant opening, and means joining said like portions where their joining sections overlap, the length of each leg being such that when said bottom wall sections and joining sections are substantially flat, the ends of said top walls, provided with said arcuate openings, will be spaced apart a short distance and when said bottom wall sections are upwardly and inwardly converging and said joining sections are upwardly arched, said ends of said top wall will be spaced apart a greater distance.

---

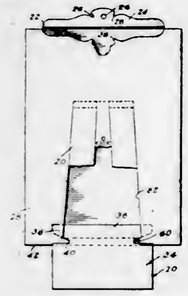
**2,390,293**
**WORK HANDLING UNIT**
**Herman H. Colson, Teaneck, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application December 19, 1942, Serial No. 469,557**
**6 Claims. (Cl. 294—86)**



1. In a work handling and manipulating unit, the combination of a frame, jaw members movably positioned in said frame for movement lengthwise thereof, work engaging means carried on said jaw members and rotatably mounted thereon, means for positively moving said jaw members toward and away from each other to engage and disengage the work, means for rotating said work engaging means, and means for terminating said rotation at predetermined points.

---

**2,390,294**
**DISPLAY MOUNT**
**Carroll N. Cross, Middleboro, Mass.**
**Application October 14, 1942, Serial No. 461,982**
**2 Claims. (Cl. 40—18)**



1. In combination with a display mount composed of at least a back board and a superimposed face board joined together along the edges thereof, a vertically disposed passage in said back board, said passage having spaced upwardly converging side walls and having a bottom wall spaced inwardly from the bottom of said mount, a rectangular indicia-bearing panel having an indicia-bearing portion disposed at the exterior of said back board, and a mount-engaging portion at the top of said panel, said mount-engaging portion comprising a pair of oppositely extending wings defined by aligned notches in a pair of opposite edges of said panel, said wings extending through said passage and lying between said boards and being of such length as to extend beyond the outer walls of said passage at its widest

point whereby said wings are held in sliding engagement between said boards and with respect to said slot, the distance between the bottoms of said notches being greater than the distance between the side walls of said passage in its upper portion but being less than the distance therebetween at its lower portion whereby said panel may be retained in elevated position by frictional engagement between the bottom of said notches and the side walls of said passage and whereby the bottom wall of said passage limits the downward movement of said panel.

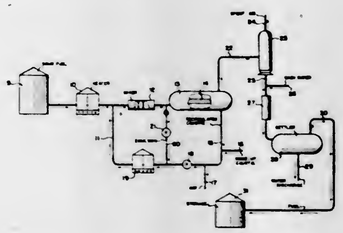
---

**2,390,295**
**SOAP COMPOSITION**
**Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York**
**No Drawing. Application July 19, 1941, Serial No. 403,235**
**12 Claims. (Cl. 252—121)**

1. A soap composition adapted for use in hard water, sea-water, and acid aqueous solutions, comprising a water-soluble soap and a mixture of alkyl derivatives of an aromatic sulfonate containing at most two benzene nuclei in the aromatic radical, of which the alkyl groups are derived from a polycomponent non-aromatic hydrocarbon mixture of which at least 80 per cent boils between 210° and 275° C. and over a maximum range of 55° C., said mixture of alkyl derivatives and said soap being present in the composition in ratios varying from 5 to 100 parts of the mixture of alkyl derivatives per 100 parts by weight of soap.

---

**2,390,296**
**METHOD OF INCREASING CETANE NUMBER OF FUEL OIL**
**George R. Gilbert, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application December 7, 1942, Serial No. 468,119**
**2 Claims. (Cl. 196—29)**



1. A method of treating sour fuel oil to increase the cetane number thereof comprising the steps of agitating a first batch of sour oil with approximately 50° Baumé caustic solution and in the ratio of approximately 15 parts of oil to 1 part of caustic in the presence of oxygen at a temperature of approximately 190° F. until the batch is sweet, separating under the influence of gravity the oil from the caustic, admixing another batch of sour fuel oil with caustic, removed from said first batch, agitating it in the presence of oxygen at a temperature of approximately 190° F. until the oil is sweet and separating under the influence of gravity the oil from the caustic.

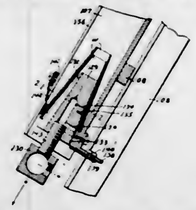
**2,390,297**
**GAS PURIFICATION**
**Harry L. Gilmore, Adrian, Mich., assignor to Aget Manufacturing Company, Adrian, Mich., a corporation of Michigan**
**Application September 21, 1942, Serial No. 459,140**
**2 Claims. (Cl. 183—45)**



1. A cylindrical filter comprising a perforate inner tubular wall and an outer perforate tubular wall forming a shell, a homogeneous fiber filler between said walls, said inner wall having integral outwardly offset portions at opposite ends thereof embedded in said filler in a manner to compress a portion of said filler between said offset portions and said shell to support the same and prevent settling thereof.

---

**2,390,298**
**JACKET REMOVING PLUG**
**Mitchel Glassner, Baltimore, Md., assignor to Maryland Baking Company, Inc., Baltimore, Md., a corporation of Maryland**
**Original application April 14, 1943, Serial No. 483,075. Divided and this application August 22, 1944, Serial No. 550,648**
**8 Claims. (Cl. 294—64)**



2. In a machine of the class described; a flexible jacket removing plug comprising a conical body having a longitudinal groove in its face, a blind bore and at least one duct connecting said bore with said groove, and a pointed element projecting into said groove for purposes described.

---

**2,390,299**
**AIR CIRCULATING FAN**
**Louis A. Gutkin, Winnipeg, Manitoba, Canada**
**Application December 9, 1941, Serial No. 422,283**
**In Canada December 9, 1940**
**1 Claim. (Cl. 170—173)**

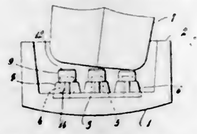


As an article of manufacture, an air circulating fan, said fan comprising in combination a hub in the form of a cylindrical spring clip to engage a piece of line-shafting, at least two blades secured radially thereto, said blades being composed of light weight material such as will permit of the fan being stopped from rotating on a shaft by the hand without injury and removed therefrom.



---

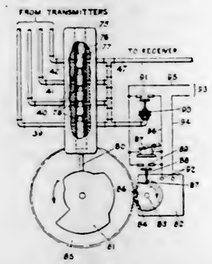
**2,390,300**
**SHOCK-ABSORBING FLOATING DRY DOCK**
**Frederic R. Harris, New York, N. Y.**
**Application May 20, 1943, Serial No. 487,735**
**12 Claims. (Cl. 114—45)**



10. A dry dock having a floor, and means on said floor to engage the bottom of a ship, said means comprising fluid containers with open tops and depressible members therein movable to project through said tops, said members being of smaller diameters than said containers at the tops, leaving a space surrounding each of said members thereat for the admission and discharge of fluid from said containers.

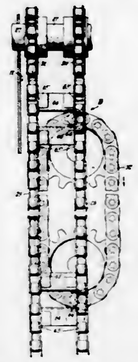
---

**2,390,301**
**PNEUMATIC TELEMETERING SYSTEM**
**Eugene H. Hart, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut**
**Application January 16, 1942, Serial No. 426,941**
**9 Claims. (Cl. 73—388)**




6. In a fluid-pressure-actuated telemetering system: the combination of a plurality of transmitting instruments each of which is adapted to control a fluid pressure in correspondence with a measured magnitude, a single pressure-sensitive receiving instrument, conduit means adapted to connect said transmitting instruments to said receiving instrument, valve means adapted selectively to provide operative communication through said conduit means between said receiving instrument and any one of said transmitting instruments and power-operated means for actuating said valve means through a cycle whereby said receiving instrument is rendered responsive to said transmitting instruments in a predetermined succession together with pressure-sensitive means responsive to the attainment of a predetermined value by one of said magnitudes, to control a supply of power to said power-operated means.

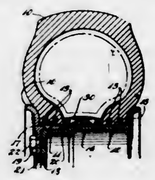
**2,390,302**
**CONVEYER**
**Bjarne Henricksen, Hudson County, N. J., assignor to Sedgwick Machine Works, Inc., Poughkeepsie, N. Y., a corporation of New York**
**Application June 2, 1943, Serial No. 489,325**
**11 Claims. (Cl. 198—135)**



1. A step-by-step conveyer comprising: loading and unloading stations, a flexible conveyer element extending between said stations, article-moving means attached at intervals to said flexible conveyer element to transport articles from station to station, and drive means to move said conveyer element step-by-step, the conveyer element pausing for loading and unloading of the articles at the stations; said drive means comprising an auxiliary start-stop flexible element, engageable means attached to said auxiliary flexible element, start-stop stations for said engageable means, a plurality of actuating means moving in unison and operative to successively engage and repeatedly move each of said engageable means from start-stop station to start-stop station, one of said actuating means being at all times engaged with one of said engageable means, and a driving connection from the auxiliary flexible element to the conveyer flexible element, the station-to-station movement of said engageable means establishing the step-by-step movement of the conveyer flexible element.

---

**2,390,303**
**BEAD LOCKING RING**
**Frank Herzegh, Shaker Heights, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application October 1, 1942, Serial No. 460,348**
**6 Claims. (Cl. 152—400)**

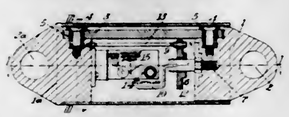


1. A locking and sealing ring for the bead portions of a pneumatic tire casing, said ring comprising an annular member of stiff sheet material

bent to provide a central laterally bowed flexible bridging portion having cross-corrugations in said portion and depending side portions terminating in a free margin, said side portions comprising annular protruding edges for exerting pressure against and sealing with said bead portions, and said bridging portion being deflectable under fluid pressure within the tire to increase lateral pressure of the side portions against the tire.

---

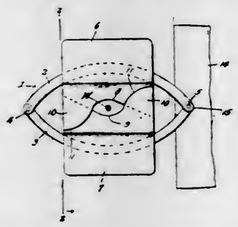
**2,390,304**
**MEANS FOR DETERMINING AND RECORDING THE STRESSES IN WIRE ROPES, CHAINS, ETC.**
**Herbert Hitchen, Doncaster, England, assignor to British Ropes Limited, Doncaster, England**
**Application August 23, 1944, Serial No. 550,804**
**In Great Britain June 18, 1943**
**3 Claims. (Cl. 73—141)**



1. Means for determining stresses in strand materials, comprising end members, connecting means retaining the end members in spaced relation, a bell-crank lever having one of its arms pivoted to one of the end members and having the free end of its other arm mounted to swing in a direction angularly of the direction of loading stress, and a plate supported horizontally by the other end member in close proximity to the pivoted lever arm and connected with the lever adjacent its pivot, whereby upon relative movement of the end members the lever is caused to swing about its pivotal axis.

---

**2,390,305**
**HOLDER AND INSULATOR FOR ELECTRIC FENCE WIRE**
**Dean F. Hunter, Ogden, Iowa**
**Application May 15, 1944, Serial No. 535,667**
**1 Claim. (Cl. 174—156)**



A holder and insulator for attaching fence wire to a post comprising a frame including a pair of bars pivoted together at one end for swinging toward and from each other to open and close the frame, respectively, said bars being oppositely bowed relatively whereby said frame when closed is of oval form, said bars having free ends provided with apertures therein adapted to register when the frame is closed and for the passage of a spike therethrough for securing the frame to a fence post, and a pair of blocks of insulation material through which said bars extend whereby said blocks are mounted on said bars, respectively, said blocks being provided with a pair of opposed transverse grooves therein mating when the frame is closed and forming when mated a wire-confining channel closed at the sides thereof, said blocks being provided with extension lips at opposite sides of the grooves, and with recesses for seating said lips when the frame is closed, said lips and grooves being staggered upon opposite sides of the median plane of said blocks to provide for the lips overlapping side by side to prevent a fence wire from escaping out of said grooves.

---

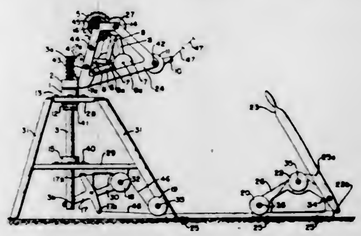
**2,390,306**
**DISCHARGE CHUTE FOR HAY BALERS**
**Sidney H. Hunziker, deceased, late of Drexel, Mo., by Freda E. Hunziker, administratrix, Drexel, Mo.**
**Application December 8, 1944, Serial No. 567,260**
**1 Claim. (Cl. 214—41)**



In combination, a tow vehicle, a trailer vehicle, a discharge chute extending from the rear end of the tow vehicle over the front end of the trailer vehicle and having a front end pivotally mounted on said rear end below the same whereby said chute is vertically swingable into upwardly and rearwardly inclined position, flexible means for sustaining said chute in said position against sagging, and means to couple said trailer vehicle to the bottom of said chute in the rear of the axis of swinging movement thereof and below said axis whereby the drag of said trailer vehicle will tend to swing the chute upwardly.

---

**2,390,307**
**GAS POWERED MODEL AIRPLANE CONTROL LINE APPARATUS**
**Anthony S. Kelecius, Oaklawn, Ill.**
**Application February 22, 1944, Serial No. 523,390**
**7 Claims. (Cl. 272—31)**



1. In a model airplane control tower of the class described the combination of a control handle, a bellcrank member pivotally connected to the model airplane, control cables extending from said bellcrank member, reels with which said control cables are connected, and pulleys over which said control cables pass individually pivoted about the axis of said reels, said pulleys operatively connected to said control handle.



**2,390,308**
**MOISTUREPROOF BASE**
**Theodore W. Keller, Council Bluffs, Iowa**
**Application October 27, 1942, Serial No. 507,878**
**8 Claims. (Cl. 250—27.5)**



1. A plastic body for use in construction of a base for radio tube elements and the like comprising a disk-like body portion including a central depending hollow prong extension, a central recess forming a cavity in communication with said extension, an upstanding marginal annular portion, the top of said annular portion being provided with an endless gasket accommodating ridge, and the outer peripheral marginal portion having outstanding circumferentially spaced flanges constituting cap accommodation ledge elements.

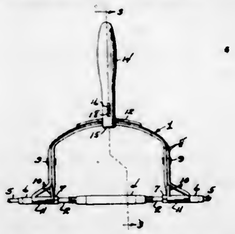
---

**2,390,309**
**PIERCER**
**Theodore F. Keys, Jeannette, Pa.**
**Application March 13, 1944, Serial No. 526,224**
**5 Claims. (Cl. 164—119)**



1. A piercing tool comprising a unitary shaft having a conical point section at one end thereof, a relatively short cylindrical section adjacent said conical section, a shank section adjacent said cylindrical section and a handle section at the other end of the shaft, the diameter of said cylindrical section being at least equal to the diameter of the large end of said conical section and to the maximum transverse dimension of said shank section, a gage sleeve slidably engaging said shank section and counterbored to extend over said cylindrical section and said conical section, cooperative means on said shank section and said gage sleeve for positioning said gage sleeve longitudinally of said shaft and means adjacent said conical section for impositively securing said sleeve in position with its counterbored end extending over said conical section.

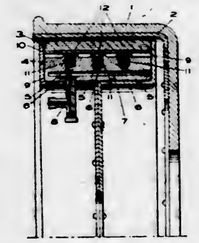
**2,390,310**
**TURNBUCKLE TOOL**
**Silvy H. Knowles, Oklahoma City, Okla.**
**Application November 24, 1943, Serial No. 511,614**
**1 Claim. (Cl. 81—13)**



A turnbuckle tool including a clamp for holding screws of a turnbuckle stationary while the sleeve of the turnbuckle is turned, said clamp comprising U-shaped yokes having their arms pivotally connected together and split from their free ends to form forks, jaws carried by the forks and extending transversely of the arms of said yokes, said jaws having inner side faces formed with V-shaped recesses extending longitudinally thereof for tight gripping engagement with screws of the turnbuckle, handles carried by said yokes midway the width thereof in opposed relation to each other, a latch pivotally carried by one handle and passing through an opening in the other handle, and a spring carried by the first handle and connected with said latch near the pivoted end thereof for swinging the latch into position for latching engagement with the second mentioned handle at the upper end of the opening formed therein.

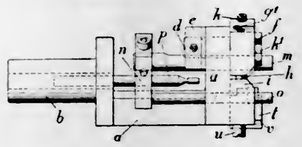
---

**2,390,311**
**HYDRAULIC BRAKE**
**Harry P. Kupiec and Earle Stewart, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland**
**Application October 28, 1943, Serial No. 507,986**
**15 Claims. (Cl. 188—152)**



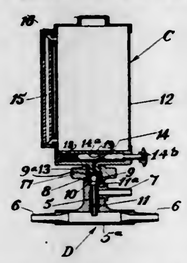
1. In a device of the class described, a brake-drum, brake-blocks adapted to engage said brake-drum, actuating means therefor comprising a cylindrical member backing said brake-blocks, said member having grooves formed in the periphery thereof, passages formed in said member interconnecting said grooves and affording communication with a source of fluid pressure, resilient, elastic gaskets positioned in said grooves substantially filling the same, whereby said fluid pressure urges said gaskets radially to force said brake-blocks against said brake-drum.

2,390,312
**ROLLER BOX OR STEADY FOR LATHES AND LIKE MACHINES**
**Harry Livingstone, Longsight, Manchester 12, England, assignor to Manchester Repetition Engineers Limited, Manchester, England, a British company**
**Application May 20, 1943, Serial No. 487,773**
**In Great Britain June 17, 1942**
**3 Claims. (Cl. 82—35)**



1. A profile turning roller box comprising a frame with a part to be secured in a lathe, steady rollers to ride upon the workpiece mounted in said frame upon adjustable slides, means to rigidly secure said slides in adjusted position on said frame, a profile bar guided by and sliding freely through said frame, a holder for a cutting tool movably mounted in said frame, the cutting tool being located in advance of the steady rollers, means engaging said profile bar and moving said holder, and means adapted to engage the end face of the workpiece for moving the profile bar as the roller box passes over the workpiece being turned.

2,390,313
**GAS AND LIQUID MIXER**
**Charles Dalrymple Macgill, Glasgow W. 3, Scotland, assignor to Barr & Stroud, Limited, Glasgow, Scotland**
**Application August 6, 1942, Serial No. 453,895**
**In Great Britain July 21, 1939**
**4 Claims. (Cl. 299—86)**



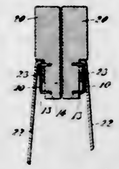
1. In apparatus for selectively delivering air or air and liquid under pressure, the combination of a source of supply of air under pressure, a connection piece of substantially T-form having a passage in its central limb communicating with a passage in its cross-part, and a valve chamber in the passage of said central limb remote from the point of connection of said passages, piping for conveying the air under pressure to the passage of said central limb, piping connected to each outlet of the cross-part of said connection piece, provided with a nozzle, an inner tube in the passage of said central limb having its one end communicating only with said valve chamber and its other end communicating with the passage of said cross-part, and disposed so as to leave an annular space around the inner tube separated from the valve chamber, whereby said air under pressure is required to pass through said annular space in a direction away from said valve chamber and then into and through said inner tube to the valve chamber, an outwardly closing valve in said valve chamber, a liquid container removably fitted to said connection piece at the end of said central limb adjacent said valve and adapted to unseat said valve when the liquid container is connected to said connection piece, said liquid container provided with a port communicating with said valve chamber beyond said valve and with the container interior at a position below the liquid level therein, and a valve in said port for controlling inlet of air to and exit of liquid from said container.

2,390,314
**DISPENSING DEVICE FOR PASTE TUBES**
**William Broaddus Massey, Richmond, Va.**
**Application July 10, 1944, Serial No. 544,229**
**9 Claims. (Cl. 222—103)**



8. A dispensing device for collapsible tubes or the like of a single piece of resilient material folded to form a pair of resilient pressure plates connected together along one edge and diverging from a point adjacent where they are connected together, said pressure plates being adapted to be pressed against opposite sides of a collapsible tube placed between them to discharge paste therefrom, said device having a slot adjacent the fold thereof of such dimensions as to permit passage of a collapsed portion of a tube from which paste has been discharged, at least one of the pressure plates being inwardly convex so that when said inwardly convex plate is flexed by being pressed against a tube between the plates to discharge paste from the tube the effective force of such pressure is exerted progressively from the rear forwardly along the tube, whereby the effect of a rolling action on the tube is obtained.

2,390,315
**HANDBAG FRAME STRIP FOR ATTACHING BAG MATERIAL TO BAG FRAMES**
**George S. Merk, Flushing, N. Y.**
**Application September 27, 1943, Serial No 503,946**
**1 Claim (Cl. 150—29)**



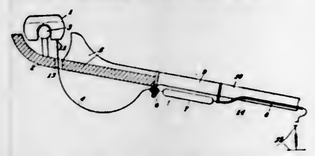
In a bag frame having a bag frame section made of a material adapted to be impregnated by a sharp pointed member, and having a cut-out forming a shoulder, the combination of a metal strip consisting of a flat elongated body portion with a plurality of laterally extending spaced bent prongs pointed and inserted into the cut-out of the section, and a bag material having its end interposed between the strip and the cut-out, and pierced by the prongs of one side of the strip, one marginal portion of the flat body of the strip being spaced from the shoulder formed by the cut-out about the thickness of the bag material, the body portion of the strip being pressed against the bag material between it and the shoulder, the bag material being bent over and covering the strip for concealing the strip, the outer surface of the bag material being flush with the plane of the section and abutting against the shoulder of the section.



2,390,316
**ACID RECOVERY PROCESS**
**Henry O. Mottern, Hillside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application October 7, 1942, Serial No. 461,230**
**3 Claims. (Cl. 23—172)**

2. The method of reconditioning weak solutions of sulfuric acid containing carbonaceous material which comprises adding to the weak acid an amount of nitric acid slightly in excess of the amount theoretically required to oxidize the carbonaceous material present in the weak acid, heating the acid mixture while oxides of nitrogen are evolved, concentrating the acid to a sulfuric acid concentration of 80–81% while recovering a constant boiling mixture of nitric acid and water, further heating the mixture to evolve oxides of nitrogen, returning the nitric acid and nitrogen tetraoxide to fresh weak acid and after oxides of nitrogen cease to evolve concentrating the sulfuric acid to an acid concentration of 88–92%.

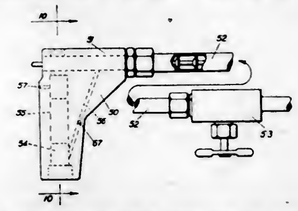
2,390,317
**STEERING INDICATOR DEVICE FOR VEHICLES**
**Daniel Michael O'Dwyer, London, England**
**Application May 19, 1944, Serial No. 536,391**
**In Great Britain October 16, 1943**
**2 Claims. (Cl. 116—124)**



1. Steering indicator mechanism for a trolley bus embodying a trolley pole, a trolley shoe pivoted thereon for engaging a trolley wire, a pointer on said bus visible to the driver, flexible driving cable means connected between said shoe and said pointer and insulating means electrically isolating said shoe from said pointer.

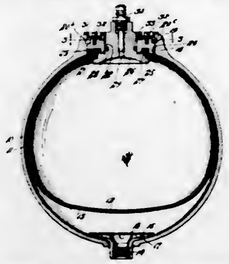
2,390,318
**RIVET EJECTOR**
**Claggett Offutt, Los Angeles, Calif.**
**Application March 3, 1942, Serial No. 433,177**
**2 Claims. (Cl. 78—46)**

1. A rivet ejector adapted to be connected to a source of compressed air, which includes: a housing having a bore for the passage of rivets therethrough; a cylinder whose axis is substantially normal to that of said bore; a fluid passageway connecting the rear end of said cylinder to said source of compressed air, said passageway having a closable vent to the atmosphere; a piston slidable in said cylinder and adapted to be moved forwardly when said vent is closed; a pair or parallel rods on the forward end of said piston extending through the side walls of said bore and spaced so as to restrain the forward movement of the first rivet therein, said rods



having opposed recessed portions on their inner faces spaced to pass the head of said rivet and adapted to be aligned with said bore when said piston is in one position; and means for moving said piston rearwardly when the pressure on its rear end is released, to move the rivet-engaging portions of said rod into said bore.

2,390,319
**PRESSURE VESSEL**
**John William Overbeke, New York, N Y.; assignor to Simmonds Aerocessories, Inc. of New York, New York, N. Y., a corporation of New York**
**Application December 28, 1943, Serial No. 515,933**
**4 Claims. (Cl. 138—30)**

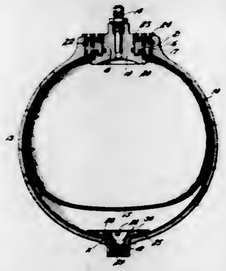


1. A pressure accumulator comprising, in combination, a shell having an open neck at one end, a centrally open collar snugly fittable within said neck, a stopper outwardly slidable in the central opening of said collar and having a flange at its lower end underlying said collar, a flexible bag-like membrane having its edges disposed between said flange and collar and adapted to be clamped therebetween when said slidable stopper is subjected to interior bag pressure, said collar, membrane and stopper being capable of preassembly as a unit which can be inserted through said shell neck from outside the shell to divide said shell into compartments, a locking ring fastenable in said shell neck above said collar after said unit has been inserted, and means for passing fluid in and out of said compartments.

2,390,320
**PRESSURE VESSEL**
**John William Overbeke, New York, N. Y., assignor to Simmonds Aerocessories, Inc. of New York, New York, N. Y., a corporation of New York**
**Application December 28, 1943, Serial No. 515,934**
**6 Claims. (Cl. 138—30)**

1. In a fluid pressure vessel having an opening, a fluid passing plug in said opening having a hollow body and an enlarged head seated against

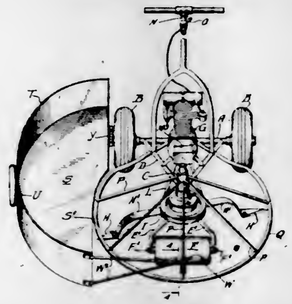
the interior wall of said vessel, a sheet metal plate on said head having a plurality of orifices com-



municating with said hollow body, and means backing up said plate against outward bending.

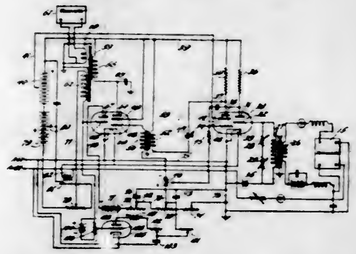
---

2,390,321
**GRASS CATCHING APPARATUS**
**Heza H. Packwood, Reserve, La.**
Application December 6, 1943, Serial No. 513,605
3 Claims. (Cl. 56—202)



1. Apparatus for use in catching grass cut by a lawn mower of the type comprising a framework movable over the ground and a cutter mounted in said framework to revolve about a vertically disposed axis and including one or more cutting blades horizontally extended to sweep through an annular zone surrounding said axis, said apparatus comprising a receptacle having a grass receiving platform with an elongated receiving edge portion and an uprising rim portion having end portions extending into proximity with the ends of said receiving edge portion and having a body portion laterally disposed from said edge portion, and means for attaching said receptacle to the framework of a lawn mower of the above mentioned type at the side of the cutter blade zone of movement toward which each cutter blade moves during the portion of each revolution in which the cutter action of the blade is mainly effected, and with said receiving edge alongside a portion of the peripheral edge of said zone extending between points respectively in front of and at the rear of a plane including the cutter axis of the lawn mower and extending transversely to the direction of movement of the lawn mower over the ground.

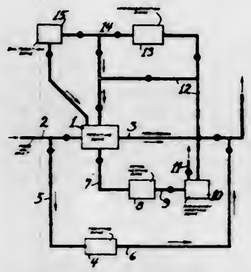
2,390,322
**SEISMIC SURVEYING**
**Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.**
Application September 19, 1941, Serial No. 411,479
5 Claims. (Cl. 177—352)



1. In apparatus for use in seismic surveying, the combination with a seismometer for converting incoming seismic energy into electrical wave form signals and means for amplifying and recording such signals, said amplifying means including thermionic valve amplifiers, means for so varying the internal resistance of one of said valves in response to variation in amplitude of such energy as to maintain the major portion of the record within usable amplitude limits, and means responsive only to the arrival of energy of amplitude excessively large as compared to the amplitude of reflected waves for varying the internal resistance of one of said valves with substantially greater rapidity than said first named resistance varying means.

---

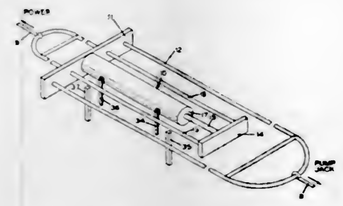
2,390,323
**REGENERATION OF SPENT CATALYSTS**
**Edward B. Peck, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
Application March 1, 1941, Serial No. 381,251
2 Claims. (Cl. 252—242)



1. The process for the regeneration of a catalyst of the class consisting of nickel and cobalt mounted on a tungsten carrier, which catalyst has been converted to the sulfide in the refining of petroleum oil, which comprises heating the sulfide at about 500° C. in the presence of steam thereby oxidizing said sulfide to a solid solution formed of 75% sulfate and 25% sulfide, and thereafter raising the temperature of the solid solution to about 600° C. to cause the sulfate to oxidize the sulfide to oxide.



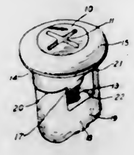
2,390,324
**AUTOMATIC LENGTH ADJUSTER**
**Fred D. Peters, Webb City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
Application April 11, 1942, Serial No. 438,647
10 Claims. (Cl. 74—586)



1. Compensating length adjusting means for a rod-line interposed in the rod-line reciprocable therewith to transmit power therethrough, supported entirely by the rod-line and operable only upon a change of the rod-line length, comprising a coupling member having two telescoping sections with a fluid jack between the sections, said fluid jack including a cylinder and a plunger slidable in the cylinder, a fluid container and means mounted on the fluid jack responsive to stop means on the ground upon elongation of the rod-line due to temperature changes for transmitting fluid from the container into the cylinder to move the plunger with respect to the cylinder and thereby compensate for said elongation.

---

2,390,325
**FASTENING DEVICE**
**Robert L. Rapp, Burbank, Calif.**
Application November 12, 1941, Serial No. 418,708
4 Claims. (Cl. 85—32)



4. A fastening device comprising a sleeve, headed bolt and nut, the sleeve having a laterally enlarged head providing an engaging shoulder from which extends a shank elongated in cross section with a projection comprising stop means to prevent rotation of the nut more than about 90° and a smooth bore through the head and shank, the bolt shank positioned in the bore and extending beyond the sleeve shank and threaded into the nut, the nut being of substantially the same cross section as the sleeve shank and turned normally in line therewith, having a projection and stop means to engage that of the sleeve shank and a work engaging face on each side of the bore, so that when the bolt is turned to tighten, the work engaging faces swing clear of the sleeve shank and the nut and sleeve telescope to tightened position.

2,390,326
**ALLYL AND SUBSTITUTED ALLYL METHACRYLATES**
**Chessie E. Rehberg, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office**
No Drawing. Application February 4, 1943, Serial No. 474,759
11 Claims. (Cl. 260—486)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of manufacturing allyl methacrylate which comprises reacting allyl alcohol with alpha-hydroxy-isobutyric acid, thereby forming allyl alpha-hydroxy-isobutyrate and water, separating the allyl alpha-hydroxy-isobutyrate from the water, reacting the allyl alpha-hydroxy-isobutyrate with an acetylating agent to form allyl alpha-acetoxy-isobutyrate, pyrolyzing the allyl alpha-acetoxy-isobutyrate at a temperature of about 400° to 600° C., whereby allyl methacrylate is formed, and then recovering the allyl methacrylate.

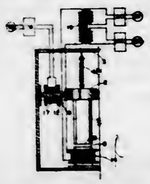
---

2,390,327
**ALLYL AND SUBSTITUTED ALLYL ACRYLATES**
**Chessie E. Rehberg, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office**
No Drawing. Application February 4, 1943, Serial No. 474,760
6 Claims. (Cl. 260—486)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of manufacturing allyl acrylate which comprises reacting allyl alcohol with lactic acid, thereby forming allyl lactate and water, separating the allyl lactate from the water, reacting the allyl lactate with an acetylating agent to form allyl alpha-acetoxypropionate, pyrolyzing the allyl alpha-acetoxypropionates at a temperature of about 400° to 600° C., whereby allyl acrylate is formed, and then recovering the allyl acrylate.

---

2,390,328
**DIRECTIONAL SEISMOGRAPH PICKUP**
**Robert J. Roberts, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
Application June 25, 1943, Serial No. 492,337
10 Claims. (Cl. 177—352)

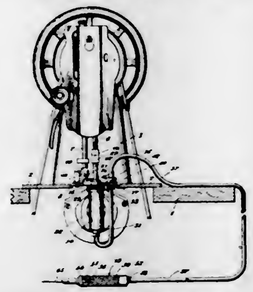


1. A seismic pickup comprising, in combination, a support, a body, a coil spring suspending the body from said support, means carried by said body arranged for producing a plurality of magnetic fields, with one field having a vertical direction of departure and each remaining field having a horizontal direction of departure and with the direction of departure of each field of

said plurality of magnetic fields making an angle with the direction of departure of the remaining fields, and a plurality of pickup coils mounted on said support with each coil adjacent one of said magnetic field sources.

---

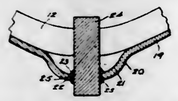
**2,390,329**
**DARNING ATTACHMENT FOR SEWING MACHINES**
**Walter O. Runcie and Géza M. Keczeli, Lima, Peru**
**Application December 18, 1942, Serial No. 469,462**
**12 Claims. (Cl. 66—1.5)**



10. In combination, a sewing machine including a reciprocating needle carrier, a compressor including a cylinder on the machine laterally spaced from said carrier, a piston in said cylinder having a rod projecting therefrom, supporting means for supporting said cylinder, means connecting said rod to said needle carrier whereby said piston will reciprocate with said carrier, a needle assembly, and a conduit connecting said cylinder with said assembly.

---

**2,390,330**
**CONSTRUCTION DESIGN AND SHRINK JOINT FOR SHIPS**
**Fred A. Rydberg, Seattle, Wash.**
**Application April 24, 1944, Serial No. 532,492**
**2 Claims. (Cl. 114—79)**



1. A ship having a frame, a sheathing of a plurality of sections welded to said frame, a curved edging formed on each section, a beveled edge formation thereto, a keel joined to the bottom of said frame, said keel being interposed between the curved edging of said sections, and tack welding securing the edges of said sections to opposite sides of said keel.

---

**2,390,331**
**CARTRIDGE BELT LINK**
**Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut**
**Application December 21, 1942, Serial No. 469,679**
**16 Claims. (Cl. 89—35)**

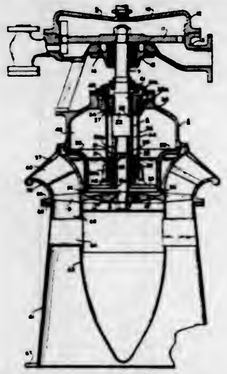
9. A cartridge belt link comprising a first cartridge-engaging part having axially spaced loops integrally connected by a bridge portion, said bridge portion having an aperture therein, a second part comprising a resilient split loop, finger portions of less width than said split loop extending from the opposed ends thereof and through said aperture, outwardly extending lugs on said fingers spaced from said ends of said split



loop a distance greater than the thickness of said bridge portion to lock said split loop on said bridge in swiveling relation, said ends of said split loop being tapered on opposite sides of said finger portions, said spacing of said lugs and said tapered ends permitting limited tilting of said split loop relative to said bridge portion.

---

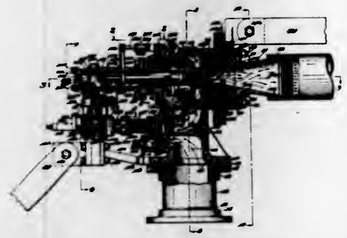
**2,390,332**
**BLOWER APPARATUS**
**Henry F. Schmidt, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 14, 1943, Serial No. 506,155**
**9 Claims. (Cl. 230—132)**



1. In fluid translating apparatus of the vertical propeller type, a body member having upper and lower walls; a drive shaft extending through the body member and having upper and lower overhanging end portions; upper and lower bearings cooperating with the drive shaft for sustaining radial and axial loads of the latter; a spacing element for the bearings; means utilizing said walls for supporting the bearings radially; means utilizing at least one of the walls and the spacing element for axially supporting the bearings and the drive shaft carried thereby; a motor including a rotor attached to the upper overhanging end portion of the drive shaft and a casing for the rotor and carried by the body member; and a propeller attached to the lower overhanging end portion of the drive shaft; said motor casing including upper and lower parts and the lower part and the upper wall of the body member having openings of sufficient size to permit of insertion and removal of the drive shaft, the bearings, and the spacing element for the latter.



**2,390,333**
**AIR BLAST CIRCUIT BREAKER AND CONTROL THEREFOR**
**William Maxwell Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Original application December 21, 1940, Serial No. 371,092. Divided and this application January 4, 1944, Serial No. 516,917**
**3 Claims. (Cl. 200—82)**



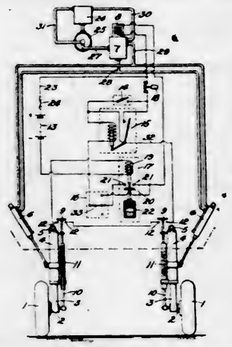
2. In a fluid operated circuit breaker having a fixed and a cooperable movable contact, a piston rod connected to said movable contact, means controlled by a fluid under pressure for operating said piston rod, and therethrough said movable contact into and out of engagement with said fixed contact, a diaphragm controlled by pressure on its opposite faces from said fluid for normally disconnecting said fluid pressure from said piston rod, a valve mechanism having a closing element, spring means normally biasing said closing element of said valve mechanism to a position for maintaining said pressure on said diaphragm to close off said fluid pressure, electromagnetic means responsive to circuit conditions for operating said valve closing mechanism against the action of said biasing means to cut off pressure on one side of said diaphragm whereby said diaphragm is vented by pressure on its other face to open the fluid pressure to permit fluid to flow to said first mentioned piston rod; and electromagnetic means controlled by the operation of said valve closing element for maintaining said pressure disconnected from said one face of said diaphragm.

---

**2,390,334**
**AIRCRAFT RETRACTABLE ALIGHTING GEAR**
**George Norman Snarey, Warwick, England, assignor to Dowty Equipment Limited, Cheltenham, England**
**Application August 17, 1942, Serial No. 455,042**
**In Great Britain June 20, 1941**
**20 Claims. (Cl. 244—102)**

1. A control for the retracting mechanism of retractable aircraft alighting gear which includes a ground engaging means moved relative to the aircraft by relieving it of weight imposed by the aircraft, comprising an actuator operable to control the retracting mechanism, time delay mechanism operatively connected to said actuator, and operable at the end of a predetermined time following its energization to effect operation of said actuator to control the retracting mechanism for moving the alighting gear into retracted position, and means operatively connected between the ground engaging element and said time delay mechanism, and operable to energize said time delay mechanism by movement of the ground engaging means relative to the aircraft when relieved of its load.

13. In combination with a first means to effect retraction and extension of an aircraft undercarriage, which means is normally biased to effect extension, and for use with an undercarriage wherein two elements are relatively movable in one sense when the aircraft is ground-borne, and in the opposite sense when it is air-borne, a second means operatively connected to said first means to override, when energized, the extend-



ing bias thereof and thus to effect retraction, and a third means including a control device adapted to be so operatively connected, relative to the two relatively movable elements of the undercarriage, as to be moved, upon movement of such elements, into operative position when the aircraft is air-borne, and into inoperative position when the aircraft is ground-borne, said third means being operatively connected to said second means to energize the latter when said control device is in operative position, to initiate retraction, and vice versa.

---

**2,390,335**
**METHOD OF PREPARING HYDROXY DERIVATIVES OF ALIPHATIC ACIDS AND NEW COMPOUNDS PRODUCED THEREBY**
**Harry H. Sobotka and Martin I. Rubin, New York, N. Y., assignors to Mount Sinai Hospital Research Foundation, Inc., a membership corporation of New York**
**No Drawing. Application August 4, 1941, Serial No. 405,408**
**10 Claims. (Cl. 260—486)**

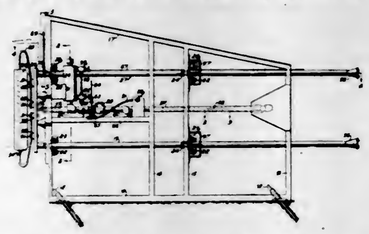
1. The process for preparing $\gamma$-hydroxy derivatives of normal and branched-chain $\alpha$-$\beta$ unsaturated aliphatic acid alkyl esters, which derivatives are characterized by the presence of an hydroxyl group in a methyl group attached to the $\beta$-carbon atom, which comprises reacting a member of the group consisting of the normal and branched-chain $\alpha$-$\beta$ unsaturated aliphatic acid alkyl esters having a methyl group attached to the $\beta$-carbon atom, with selenous acid.

---

**2,390,336**
**ATHLETE TRAINING APPARATUS**
**Lawrence A. Spearman, Newberry, S. C.**
**Application August 21, 1944, Serial No. 550,331**
**12 Claims. (Cl. 73—379)**

1. Training apparatus for football players comprising a fixed framework, a slidable framework disposed in the fixed framework and having a

resiliently mounted impact receiving member on one end thereof and projecting beyond the fixed framework, means resisting movement of the slidable framework relative to the fixed framework upon an impact being delivered to the impact receiving member, fluid pressure means including a check valve preventing return of the



slidable framework to initial position after receiving an impact, an indicator operable by movement of the slidable member upon receipt of an impact for indicating the amount of force applied to the slidable framework and means for regulating the amount of force required to be expended on the impact receiving surface before the slidable member is moved.

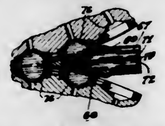
---

2,390,337

## METHOD AND MACHINE FOR MAKING CAPSULES, PARTICULARLY GELATIN CAPSULES

Chester A. Spotz, Lachute, Quebec, Canada

Application May 13, 1941, Serial No. 393,222
23 Claims. (Cl. 18—19)



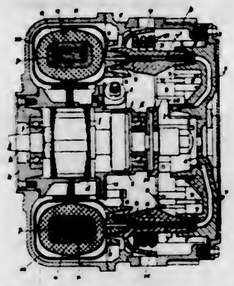
19. Apparatus for forming capsules comprising a pipe, a pair of cooperating rotary members for wrapping capsule covering material in strip form around said pipe and for sealing adjacent edges of said material together to form a tube of said material on said pipe, a pair of die rolls arranged to rotate in contact with one another for drawing said tube along said pipe towards one end of the latter, a plurality of die cavities formed in the peripheries of the die rolls and adapted to register with one another at the nip of the rolls, said one end of the pipe over which the tube is drawn being in the form of a wedge with faces of a curvature substantially the same as that of the rolls, said end being disposed with its apex susbtantially at the nip of the rolls and its faces spaced from the periphery of the rolls near the nip by a distance somewhat less than the normal thickness of the capsule covering material, whereby the latter is compressed by the edges of the die cavities as the tube passes over said faces, an outlet for capsule filling material being formed in each of said faces, and means for delivering capsule filling material through each outlet to the tube whereby the capsule covering material is expanded into said die cavities as the latter pass over the outlets, the edges of the die cavities acting to shear and seal the expanded portions of the tube as they pass through the nip of the rolls and after they have been drawn off the end of the pipe, to form sealed capsules.

2,390,338

## HIGH-TENSION SPARK IGNITION MAGNETO

Percy Tatlow and Ivan Jack Hulbert, Willesden Junction, London, England, assignors to Rotax Limited, Willesden Junction, London, England

Application May 7, 1943, Serial No. 486,094
In Great Britain May 21, 1942
4 Claims. (Cl. 171—209)



1. A high tension spark ignition magneto comprising in combination a spark generator, a distributor, and a hollow metal body having two main coaxial parts which are arranged end to end, and which respectively house the spark generator and the distributor, the spark generator having a rotor spindle, and the distributor having input electrodes electrically connected to the spark generator, output electrodes electrically insulated from the input electrodes, connecting electrodes for electrically interconnecting the input and output electrodes, two coaxial and axially spaced stationary parts mounted within the body and carrying adjacent portions of the input electrodes, a group of stationary members mounted in the space between the said stationary parts and carrying the output electrodes, and a rotary member mounted on one end of the spark-generator spindle and carrying the connecting electrodes.

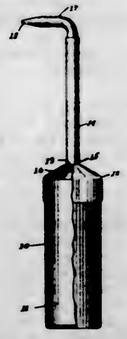
---

2,390,339

## MAGNETIC HAND TOOL

Robert Ullman, New York, N. Y., and Fred Brauner, Laurelton, N. J.; said Brauner assignor to said Ullman

Application May 9, 1945, Serial No. 592,892
3 Claims. (Cl. 294—65.5)



1. A hand tool comprising a handle, including a permanently magnetized metal core, a magnetism conducting cap frictionally engaging a pole end of the said magnetized metal core and a magnetism conducting tool member set into and retained by the said cap.



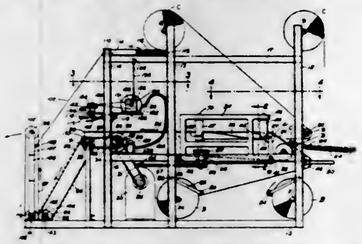
---

2,390,340

## BATT COVERING MACHINE

Cecil Earle Webb, Norwood, Ohio, assignor to William R. Steitempohl, Cincinnati, Ohio

Application March 19, 1942, Serial No. 435,392
15 Claims. (Cl. 154—27)



1. In a machine for applying a cover to a batt, the combination of a conveyor moving continuously in one direction of advancement, and folding guides one at each side of the conveyor, said folding guides each including a vertical wall and a curved wall, the latter beginning at one end of the folding guide substantially horizontally and outwardly extended at right angles to the vertical wall, and curving progressively toward the opposite end thereof where the walls end in substantial vertical parallelism, a folding roll rotatable on a vertical axis with its lower end spaced slightly from the horizontal portion of the curved wall, a cooperative second folding roll having an annular end, and means supporting said second roll for rotation horizontally, with its annular end in close proximity to the periphery of the first folding roll, pressing means near the substantially vertical wall ends, means directing onto the conveyor a batt and a pair of cover sheets at opposite faces of the batt, and means guiding one of the cover sheets so as to horizontally intersect the batt at an acute angle, and on the horizontal level of the outwardly extended end of the curved wall of the folding guide, whereby the batt is forced to arch said one sheet while the opposed edges of the latter progress horizontally past the folding rolls and through the pressing means.

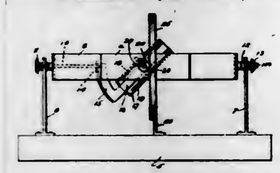
---

2,390,341

## GYROSCOPIC POWER TRANSMISSION

Dan T. Williams, Robinson, Ill., assignor of one-fourth to Gerald W. Miller, Oblong, Ill., and one-sixteenth to Chas. E. Jones, Robinson, Ill.

Application September 9, 1943, Serial No. 501,709
2 Claims. (Cl. 74—5)



1. A gyroscopic power transmission of the character described comprising a power input element, a power output element, a main frame carrying said input and output elements in axial alignment, a stationary gear adjacent to which the frame rotates, a separate assembly including a shaft revolubly restrained and positioned across the main frame, means operable in response to relative rotation between the frame and the stationary gear, to operate the separate assembly, a gyroscopic unit controlled by said separate assembly and a segmental gear carried by the gyroscopic unit and geared to the power input element for changing the plane of rotation of the gyroscopic unit at the occurrence of any variance in the speed of the input element.

---

2,390,342

## COMPOUNDED HYDROCARBON PRODUCTS

David W. Young, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

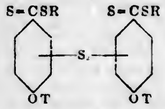
No Drawing. Application August 13, 1943, Serial No. 498,595
15 Claims. (Cl. 252—45)

3. A lubricant comprising a major proportion of a mineral oil of the lubricating oil range and about 0.02% to about 5% of a compound of the formula




where R is an aliphatic radical and T is a salt forming entity selected from the group consisting of hydrogen, a metal valence equivalent of hydrogen, the metal being selected from groups I, II, III, IV and VIII of the periodic table and a non-metallic basic group.

9. A lubricant comprising a major proportion of a mineral oil of the lubricating oil range and about 0.02% to about 5% of a compound having the structure




where R is an alkyl radical, T is a salt forming entity selected from the group consisting of hydrogen, a metal valence equivalent of hydrogen, the metal being selected from groups I, II, III, IV and VIII of the periodic table, and a non-metallic basic group, and $x$ is an integer, from 1 to 4.

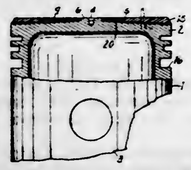
---

2,390,343

## PISTON

Irving E. Aske, Muskegon, Mich.

Original application December 11, 1942, Serial No. 468,623. Divided and this application October 9, 1943, Serial No. 505,599
10 Claims. (Cl. 309—9)

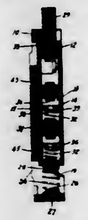


7. A piston for internal combustion engines comprising a head portion of ferrous metal ex-

tending across the top of the piston, said head portion having an integral central raised portion of relatively small diameter, a layer of non-ferrous metal surrounding said raised portion and covering substantially the entire area of said head portion, said non-ferrous metal having a thermal conductivity substantially greater than the ferrous metal, said layer of non-ferrous metal having integral filament-like portions extending for a substantial distance into the pores of the ferrous metal head portion providing for a direct heat transfer from said layer of non-ferrous metal, through the integral filaments thereof into the pores of the ferrous metal of the head portion, and providing for a fixed bonding connection between said layer and said head portion.

---

**2,390,344**
**ELECTRIC SWITCH**
**Edgar H. Ayers and Andrew G. Elmendorf, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application March 1, 1944, Serial No. 524,596**
**6 Claims. (Cl. 200—16)**

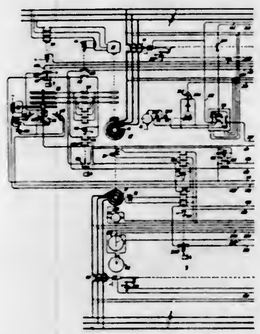


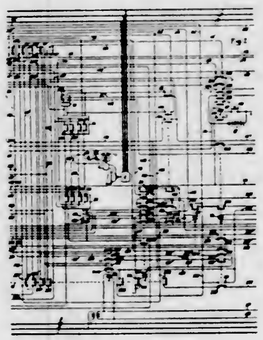
4. A switch comprising an elongated support made of electrically insulating material provided with a longitudinally extending groove having oppositely disposed overhanging side walls, an elongated contact operating member made of electrically insulating material slidably mounted in said groove, a pair of projections on said operating member extending from opposite sides of said operating member and positioned between said overhanging side walls and the bottom of said groove whereby said operating member is held slidably in said groove, a cross member on said support closing one end of said groove, a stop member on said cross member for said operating member, said stop member being removable to provide for slidable movement of said operating member toward said end to a disengaged position in which said pairs of projections are in disengaged relation with said overhanging walls to provide for removal of said operating member from said groove, said stop member engaging the adjacent end of said operating member to prevent movement of said operating member to said disengaged position, movable contact member on said operating member, and stationary switch contacts mounted on said support cooperating with said movable contact members.

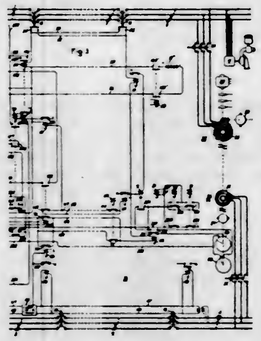
---

**2,390,345**
**AUTOMATIC CONTROL EQUIPMENT**
**Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York**
**Application March 22, 1944, Serial No. 527,637**
**20 Claims. (Cl. 171—123)**

1. In combination, two energized alternating current circuits of different frequencies, a synchronous frequency converter comprising two synchronous machines, one of which is connected to one of said circuits, and means controlled by







the difference between the frequencies of the other of said machines and the other of said circuits for varying the frequency of one of said circuits to decrease said frequency difference.

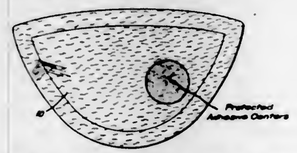


**2,390,346**
**ART OF MAKING DEEP DRAWING STEEL**
**Clyde E. Bayer, Steubenville, Ohio, and Charles E. Carr, Mariand Heights, W. Va., assignors to National Steel Corporation, a corporation of Delaware**
**No Drawing. Application March 25, 1942, Serial No. 436,188**
**4 Claims. (Cl. 75—46)**

3. An improved process for making deep drawing steel comprising the steps of blowing a blast furnace iron having a silicon content between about .90% to 1.25% and a manganese content between about .90% to 1.30% and a minimum of about .25% phosphorus in a converter to produce a blown iron of from 1.00% to 2.50% carbon and more than about .010% nitrogen, charging an open hearth furnace with lime in the form of raw limestone and with scrap, charging the blown iron to the open hearth furnace to form a heat, the proportion of scrap to blown iron in the heat being from about 1 to 3 to about 1 to 6, the amount of said lime charged being about 5% of the heat, treating the heat in the open hearth furnace to obtain a good lime boil, working the heat to obtain a maximum phosphorus content of about .012%, and then tapping the heat to obtain a deep drawing steel having a nitrogen content below about .005%.

---

**2,390,347**
**SHOE STIFFENER AND PROCESS OF MAKING THE SAME**
**Edwin L. Beckwith, Brookline, and Adelbert P. Swett, Westwood, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire**
**Application January 21, 1941, Serial No. 375,204**
**12 Claims. (Cl. 36—77)**

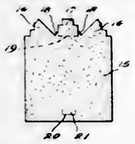



6. A shoe stiffener comprising a fabric base coated and saturated with an indurated mixture of resin and wax including as approximately 2% of the whole a multiplicity of particles of a polymerized hydrocarbon of high adhesive quality distributed throughout its surface and protected at normal temperature by a superficial indurated non-adhesive film of a resin-wax mixture.

---

**2,390,348**
**BUILDING COVERING**
**James E. Black, Chicago Ill., assignor to James E. Black, Elam L. Black, Whitfield J. Black, and Virginia Black, a partnership doing business as Black Systems, Chicago, Ill.**
**Application March 4, 1944, Serial No. 524,984**
**4 Claims. (Cl. 108—7)**

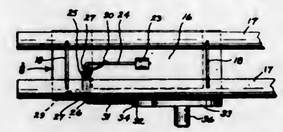
1. A shingle unit of sheet-like material comprising a body having a clamp-receiving incision in its lower central portion, a clamp-forming member occupying the plane of the body, the clamp-forming member having a minor area lying within and protectively snugly embraced by the upper central portion of the body and a major area lying outside of and extending upwardly away from the body, and means integrally joining and firmly anchoring the clamp-forming member to the body at a line of severance within the body, permitting detachment of the clamp-forming member and its complete emergence from the body readily to be effected by the fingers of a workman grasping the aforesaid major area, with the resulting provision in



the body of a cove recess covered and concealed by the clamp-forming member when it is appropriately repositioned and secured same surface out against the outer surface of the body for entry into the clamp-receiving incision of a higher course similar shingle unit.

---

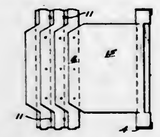
**2,390,349**
**TOY FIREARM**
**Eli O. Blanchette, Killingly, Conn.**
**Application July 31, 1943, Serial No. 496,857**
**8 Claims. (Cl. 46—192)**



1. A device of the character described comprising the combination of a hollow body portion forming a tone chamber, a barrel member connected with said body portion in aligned relation with the open end thereof, a hammer member pivotally connected with a side wall of said body portion, resilient means for urging said hammer member in engagement with said side wall, a hand grip on said body portion on the side thereof opposite the barrel member and an engagement member on said hammer member adapted to be engaged by a finger of a hand gripping the hand grip member for moving the hammer member in a direction away from the side wall of the body portion by pressure exerted on said engagement member and for permitting the resilient means to cause said hammer member to strike a blow on said side wall by releasing the pressure on said engagement member.

---

**2,390,350**
**PACKAGE**
**Walter H. Bodle, Birmingham, Mich.**
**Application December 12, 1941, Serial No. 422,630**
**10 Claims. (Cl. 206—41.2)**

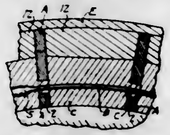


1. A multiple package for merchandise items comprising a plurality of items provided with individual coverings, means joining said items together in side by side relation into a flat group which is substantially self sustaining, means for

removing an end item from the group without disturbing the others therein, and means whereby the removal of an item with a rotating motion effects unrolling of at least the main body portion of its covering therefrom.

---

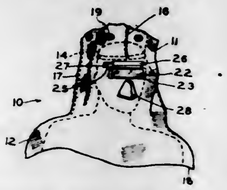
**2,390,351**
**PROCESS FOR MAKING JORDAN ENGINE LININGS**
**Archer Le Roy Bolton, North Andover, Mass.; Archer L. Bolton, Jr., executor of said Archer Le Roy Bolton, deceased, assignor to John W. Bolton & Sons, Inc., a corporation of Massachusetts**
**Original application July 3, 1940, Serial No. 343,832. Divided and this application July 28, 1941, Serial No. 404,311**
**1 Claim. (Cl. 18—59)**



The steps in the process of making a bodily transportable, unitary lining for Jordan engines which consists of holding knives in spaced relation in a predetermined position forming a hollow truncated cone, by means of an inside form, by spacing means, and means to close the ends of the space between each pair of knives to form pockets; of turning the assembly so that the pocket between a pair of knives is horizontal and open at the top; of filling part of that pocket with a moldable plastic; of turning the assembly until there is another such pocket which is horizontal and open at the top; of so filling part of that pocket; and of continuing to so fill such pockets around the circumference.

---

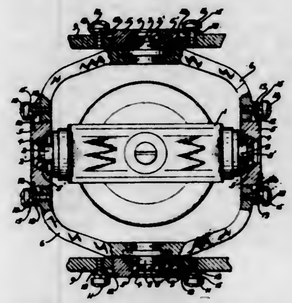
**2,390,352**
**HEAD PROTECTOR**
**Samuel E. Bouchard, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application August 18, 1943, Serial No. 499,089**
**7 Claims. (Cl. 2—8)**



2. A protecting device adapted to be mounted on the head of a user comprising a hood of pliable fabric material; a plurality of folds permanently formed in the head covering portion of said hood, said folds projecting outwardly from the head of the user and forming vertically extending air passages between the side walls of said hood and the head of the user; an air chamber located in the crown of said hood and connected to the air passages formed by said folds; air vents carried in the crown of said hood; and an attaching band secured to the side walls of said hood intermediate said folds at the base of said crown whereby air entering said hood at the bottom thereof flows upwardly through said passages into said air chamber to cool the head of the user and exits through said vents.

---

**2,390,353**
**SELF-ALIGNING BEARING ASSEMBLY**
**Samuel Bousky, Shaker Heights, Ohio, assignor, by mesne assignments, to Jack & Heintz, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application May 19, 1944, Serial No. 536,321**
**8 Claims. (Cl. 308—189)**



1. In combination in a gimbal frame suspension having a ball bearing assembly for each of its two pairs of trunnions, said trunnions being provided with spherically concave bearing surfaces adapted to engage and closely approximating the exterior dimensions of said ball bearings, said assembly including a race whose inner bearing surface has an arc of curvature defined by a relatively greater radius than that of said trunnion and engaged by said ball bearings in relatively less surface contact and in self-aligning relationship, and a self-adjusting means for supporting one of each pair of said races including a flexible metal ring with circumferentially spaced split portions to receive fastening bolts to secure the same to a main support.

---

**2,390,354**
**METHOD OF MOLDING GLASS**
**Charles W. Clapp, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application November 6, 1942, Serial No. 464,826**
**6 Claims. (Cl. 106—47)**

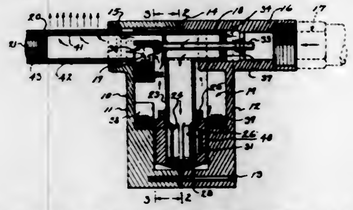
1. The method of pressing powdered glass which comprises coating the particles of the powdered glass by moistening them with a solution containing cellulose nitrate in an amount not exceeding about 2% of the weight of the glass and an oxidizing agent, evaporating the solvent until the mixture is cohesive but not adhesive, shaping the dried product under pressure and firing the shaped article and oxidizing the cellulose nitrate.

---

**2,390,355**
**WATER MOTOR FOR LAWN SPRINKLERS, ETC.**
**Edgar W. Detjen, Milwaukee, Wis.**
**Application October 9, 1944, Serial No. 557,833**
**4 Claims. (Cl. 253—17)**

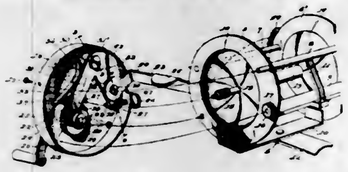
4. An oscillating water motor comprising a casing having a water inlet, a hollow shaft rockably mounted in said casing communicating with the inlet, a depending hollow arm carried by the shaft and communicating with the interior thereof for receiving water therefrom, the lower end of said arm being provided with water outlets around its entire periphery, a driving and reversing head mounted for turning movement upon the lower end of said arm encompassing said outlets, said head having a leading face and a following face and a water channel communicating with the interior thereof and opening out through the follower face, whereby water flowing through said channel will function as a drive jet to move said arm in one direction, said head also having a water outlet channel at one side of the leading face, whereby water emitted from said last mentioned channel functions as a jet to normally turn the head on said arm, and guide tracks in said casing on opposite sides of said head normally preventing turning movement of said head, one of said tracks terminating short of one end of the casing and the other of said guide tracks terminating short of the other end of said casing.





---

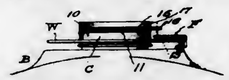
**2,390,356**
**FISHING LINE REEL BRAKE**
**Dominick Dilee, Utica, N. Y.**
**Application May 5, 1945, Serial No. 592,173**
**5 Claims. (Cl. 188—83)**



1. In a fishing line reel of the type having a frame, a casing secured to one end of said frame and having a cylindrical side wall and an outer end wall, a reel-driving shaft extending through said outer end wall, and a hand crank on the outer end of said shaft; a brake drum on said shaft within said casing, a brake lever in said casing, means mounting said brake lever for pivotal movement in a plane transverse to said shaft, said brake lever having one end frictionally contacting with said brake drum, spring means acting on said brake lever to hold said one end thereof in frictional contact with said brake drum, a releasing lever, and means mounting said releasing lever on the other end of said brake lever for pivotal movement in a plane parallel with the plane of movement of said brake lever, said releasing lever having an operating portion extending through an opening in said casing and also having a cam portion contacting with the inner side of said cylindrical side wall, whereby pivotal movement of said releasing lever will swing said brake lever to control the frictional contact of said brake lever with said brake drum.

---

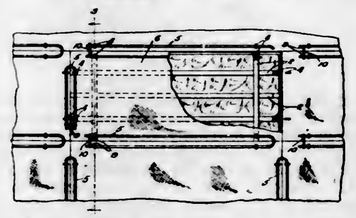
**2,390,357**
**CARD HOLDING ATTACHMENT**
**Martin B. Disken, Brooklyn, N. Y.**
**Application June 3, 1943, Serial No. 489,467**
**3 Claims. (Cl. 40—10.5)**



1. In a device of the character described, the combination which comprises a cylindrical sleeve, a transverse partition wall for said sleeve defining an upper and a lower recess therein, said lower recess being adapted to frictionally engage the central boss of a dial telephone and said upper recess being adapted to hold a card bearing indicia denoting the operative sequence of actuating apertures of the dialing wheel of said telephone for calling a station, means for preventing rotation of the card within the sleeve and means on said sleeve to determine the relative angular position of the sleeve with respect to said boss.

---

**2,390,358**
**PROTECTIVE DEVICE FOR SHIPS**
**Edward E. K. Edenboro, Greenville, Ala.**
**Application September 21, 1943, Serial No. 503,259**
**4 Claims. (Cl. 114—240)**



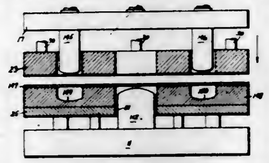
1. Protective device for ships comprising, a mattress-like shock absorbing and fire-resistant members of fibrous material bonded and compressed with imbedded encircling bands, with engagement members secured to said bands on one face of the members adjacent the edges thereof, whereby a plurality of said members can be interconnected to form a ship encircling tier.

---

**2,390,359**
**TRIPLE ACTION AUTOMOBILE BODY PRESS**
**Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware**
**Application June 24, 1940, Serial No. 341,994**
**9 Claims. (Cl. 113—45)**

9. In a multiple action press, a press platen, a shaping die carried by said platen, movable supporting means adapted to support a work piece and to cooperate with said platen, a single hydraulic power unit for advancing and retracting said platen and adjusting and holding said supporting means stationary during a predetermined advancement of said platen to allow said die on the platen to effect a first shaping operation, oppositely extending stationary die means,

and means responsive to a predetermined advancement during one and the same advancing stroke of said platen for causing said supporting



means to move concomitantly with said platen to bring said work piece into engagement with said stationary die means for effecting a second shaping operation on said work piece.

---

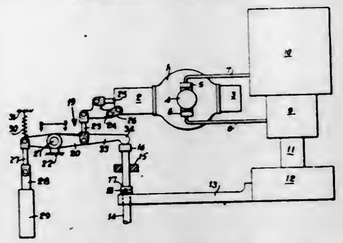
**2,390,360**

**CONTROL MECHANISM FOR HYDRAULIC PUMPS**

**Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware**

**Application December 26, 1942, Serial No. 470,136**

**6 Claims. (Cl. 103—38)**



1. Apparatus for controlling the operation of a pressure fluid pump, said apparatus including a pair of levers rotatably mounted on a shaft, one end of one of said levers being pivotally connected to an actuating element and the other end of said one lever being connected to the control rod of the pump, the second of said pair of levers being connected to the first of said pair of levers through a lost motion coupling which permits the second lever to move in a direction opposite to the direction in which the first lever is moved by said actuating element, said flexible coupling comprising a plurality of interengaging segments secured to the respective levers and arranged about the shaft, and means for resiliently maintaining the parts of said levers in contact with each other prior to and during their movement in one direction.

---

**2,390,361**

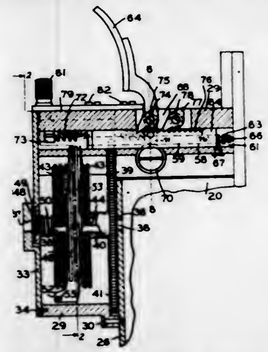
**MEDIAN DEVICE**

**Edward F. Flint, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**

**Continuation of application Serial No. 380,528, February 25, 1941. This application September 25, 1941, Serial No. 412,275**

**19 Claims. (Cl. 33—70)**

12. A device for determining the median of a group of quantitative measurements comprising a housing, a rotatable shaft therein, drive means for rotating said shaft in accordance with each measurement, a plurality of indicating members on said shaft in frictional engagement to rotate therewith, an index mark on each indicating member, resilient detent means in said housing normally engaging with each indicating member to hold it stationary, means for freeing the indicating members comprising a guideway in said housing, a cam member slidable therein, manually operated means for moving said cam member to positions for contacting and disengaging said detent means to free one indicating member



at a time for rotation whereby to permit the index marks to be positioned to indicate the relative magnitudes of said measurements by the relative displacement of the index marks with respect to each other, pawl means for holding said cam member in each of its contacting positions with said detent means, and means having a fiducial line thereon for permitting the determination of the index mark representative of the median value of said measurements.

---

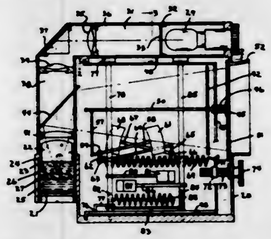
**2,390,362**

**OPTICAL INSTRUMENT**

**Edward F. Flint, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**

**Application December 30, 1942, Serial No. 470,533**

**11 Claims. (Cl. 88—24)**



1. In an aircraft instrument of the type described, means for forming a fiducial means to indicate true horizon, said first-named means including a reflector stabilized only by gravity in a predetermined position and free to move in response to accelerating forces acting on the aircraft; means for projecting an image of said fiducial means on said screen; an index means representing the aircraft mounted in front of said screen; means for mounting said index means for movement in front of said screen in response to movements of the aircraft; and means for moving said index means in response



to accelerating forces acting on said aircraft to compensate for movement of said reflector by said forces.

---

**2,390,363**

**PRODUCTION OF ACENAPHTHYLENE**

**Ralph G. Flowers, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**

**No Drawing. Application December 11, 1944, Serial No. 567,785**

**3 Claims. (Cl. 260—668)**

1. The process of producing acenaphthylene which comprises reacting under heat acenaphthene and glacial acetic acid in the presence of $Pb_3O_4$ and subjecting the product of reaction to deacetylation.

---

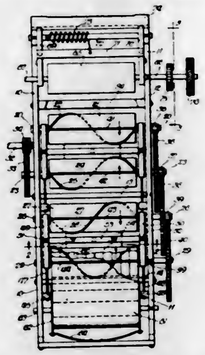
**2,390,364**

**TIMING APPARATUS**

**Thomas B. Gibbs and Morris E. Brown, Delavan, Wis., assignors, by mesne assignments, to George W. Borg Corporation, Chicago, Ill., a corporation of Delaware**

**Application February 2, 1942, Serial No. 429,191**

**14 Claims. (Cl. 234—36.5)**



3. In a device for making a numerical time record comprising a plurality of digits, means including scanning devices for marking a strip of record material at points on separate transverse lines, and means for driving said devices at speeds so related that the marks correspond to the different digits in said time record, the transverse position of each mark being indicative of the value of the corresponding digit.

---

**2,390,365**

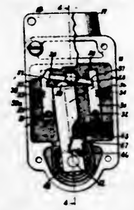
**ELECTRIC SWITCH**

**Robert W. Goff, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application January 2, 1943, Serial No. 471,137**

**10 Claims. (Cl. 200—70)**

3. An electric switch comprising a pair of relatively movable cooperating switch contacts, a movable switch member resiliently connected to one of said contacts for moving said contacts into and out of engagement, said switch member including a rocker lever pivotally mounted intermediate its ends for movement between switch opening and switch closing positions, a pair of latch levers alternatively engageable with opposite ends of said rocker lever selectably and releasably to retain said rocker lever in said positions, a stop shoulder on one of said latch levers for engagement with one end of said rocker lever to determine said switch closing position and prevent movement of said rocker lever in one direction, a latching shoulder on the other of said latch levers for preventing movement of said rocker lever in the opposite direction thereby releasably to retain said rocker lever in said switch closing position, an actuating lever pivotally



mounted at a point spaced from the pivotal axis of said rocker lever and carrying at its free end a spring pressed roller in longitudinal sliding engagement with said rocker lever, said roller being arranged for movement overcenter with respect to said rocker lever first to engage the operative latch lever for movement to a latch releasing position and thereafter to rotate said rocker lever to its other circuit controlling position.

---

**2,390,366**

**GLASS ENAMEL COMPOSITION**

**Carl J. Harbert, Shaker Heights, Ohio, and William C. Morris, Gainesville, Fla., assignors to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio**

**No Drawing. Application October 27, 1944, Serial No. 560,712**

**8 Claims. (Cl. 106—49)**

1. A glaze composition suitable for decorating glassware having a fusing temperature not higher than 640° C. and comprising a lead borosilicate type of glaze containing as a smelted in constituent a substance of the class consisting of zirconium tetrafluoride, $ZrOF_2$, and zirconyl fluorides richer in fluorine than $ZrOF_2$.

---

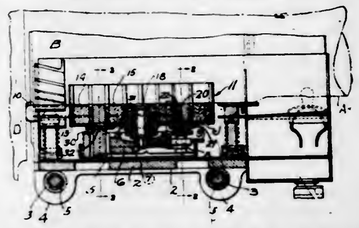
**2,390,367**

**JOURNAL LUBRICATOR STRUCTURE**

**James J. Hennessy, Montclair, N. J.**

**Application August 7, 1944, Serial No. 548,395**

**7 Claims. (Cl. 308—84)**



7. In a railway journal lubricator, a sump for lubricant, a pump including a rigid body supported on the floor of said sump, a spring supported distributor spaced upwardly from the pump body and including a mass of yielding material with an upper face of substantial area concaved for ap-

plication to a journal with which the lubricator is assembled, a conduit leading from said pump upwardly through the central portion of said distributor to the upper face thereof, and a vertically disposed bar of relatively rigid material extending through the distributor at one side of said conduit and having its upper end substantially flush with the upper face of the distributor, said bar projecting downwardly below the bottom of the distributor into close proximity to the upper face of said pump body and positively limiting the movement of the distributor and pump body towards each other.

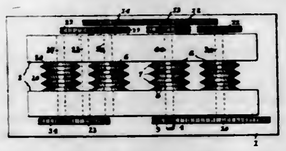
---

**2,390,368**
**PRODUCTION OF PARA-DIVINYLBENZENE**
**Carroll A. Hochwalt, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware**
**No Drawing. Application February 11, 1943, Serial No. 475,592**
**10 Claims. (Cl. 260—669)**

1. A process for making para-divinylbenzene which comprises acetylating ethylbenzene in the presence of a Friedel-Crafts catalyst, oxidizing the resulting acetylethylbenzene by means of oxygen to diacetylbenzene, reducing the resulting diacetylbenzene to para-bis(alpha-hydroxyethyl)benzene, and then dehydrating the para-bis-(alpha-hydroxyethyl)benzene in the vapor phase to para-divinylbenzene.

---

**2,390,369**
**STRIPPING MACHINE**
**Floyd Hopper, Paterson, N. J.**
**Application February 7, 1944, Serial No. 521,484**
**2 Claims. (Cl. 81—9.51)**

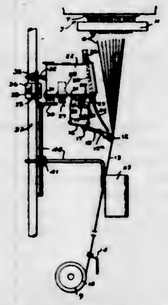


1. In a machine for removing the carcase from a coated core, the combination of supporting means, successive pairs of spaced rotary manglers journaled therein and the manglers of each pair having circumferential ribs and the ribs of each mangler in each pair extending between the ribs of the other such mangler and the ribs of all the manglers being roughened in a direction transversely of the ribs, and means to rotate the manglers so that the nip portions of all the manglers move in one direction of a line extending between the nips of each pair and so that the manglers of the relatively aft pair rotate at differential speeds and the more slowly rotated mangler of such pair rotates at a peripheral speed not less than the speed of approach of the coated core to such pair.

---

**2,390,370**
**MANUFACTURE OF GLASS YARN**
**James Franklin Hyde, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York**
**Application October 11, 1943, Serial No. 505,833**
**15 Claims. (Cl. 28—75)**

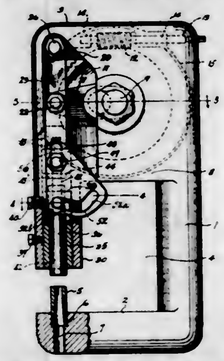
1. A strand composed of a multiplicity of long, fine, attenuated glass fibers, and an adhesive and lubricating coating containing an organosiloxane in amount sufficient to bond the individual fibers together in strand form, the or-



ganic substituents of said organo-siloxane being organic radicals attached to silicon through direct carbon linkage.

---

**2,390,371**
**PUNCHING MACHINE**
**Jessie T. Ivy, Seattle, Wash.**
**Application March 13, 1945, Serial No. 582,516**
**9 Claims. (Cl. 164—119)**



1. A punch of the character described comprising a frame including a punch die, a punch and a stripper reciprocally movable on the frame toward and from the die, a rotatably driven shaft, and a toggle linkage connected with the frame and with the punch and with the stripper, and means connecting the toggle linkage with the rotatably driven shaft to effect an advancing and a withdrawal movement of the punch, and a synchronized reciprocal action of the stripper to move it into contact with the piece to be punched and to maintain it there during the advancing and withdrawal travel of the punch, and then to retract the stripper.

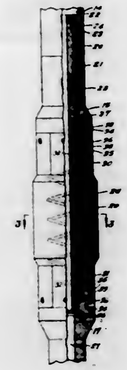
---

**2,390,372**
**OPEN HOLE SLEEVE PACKER**
**Mordica O. Johnston and Thomas A. Andrew, Glendale, and Adelbert M. Graham and Walter G. L. Smith, Los Angeles, Calif.**
**Application June 18, 1941, Serial No. 398,624**
**2 Claims. (Cl. 166—10)**

1. A sleeve-type well packer, comprising a tubular mandrel, a lower pressure element fixed



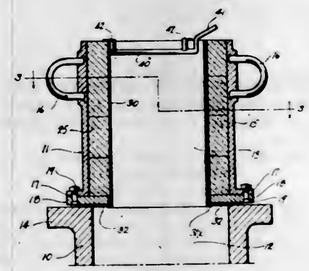
thereon, an upper tubular pressure element telescopically connected with the mandrel, interengaging means retaining the mandrel and upper tubular pressure element in telescopic connection, a tubular deformable packer sleeve mounted on the mandrel between the pressure elements and positively secured by its ends to said elements,



and helical reinforcing means imbedded within and extending longitudinally of the sleeve and permitting longitudinal compression of the sleeve between said pressure elements while restraining expansion of the packer sleeve at intervals in the length of the sleeve, said helical means being likewise positively secured by its ends to said pressure elements.

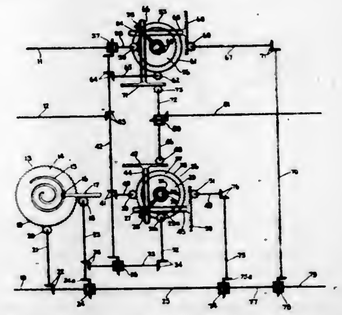
---

**2,390,373**
**HOT TOP**
**Ernest Gilbert Jones and George Oscar Leach, Seattle, Wash.**
**Application October 11, 1943, Serial No. 505,724**
**7 Claims. (Cl. 22—147)**



1. A hot-top for ingot molds comprising a metallic outer shell, open at upper and lower ends, a refractory lining in the shell, and a sheet metal sleeve fitted within the lining of the shell and having an unsecured lap joint from end to end, and a resilient spreader ring applied within the sleeve to expand it against the refractory lining.

**2,390,374**
**TRUNNION TILT CORRECTOR APPARATUS**
**William B. Jordan and Frithiof V. Johnson, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application April 14, 1938, Serial No. 201,949**
**10 Claims. (Cl. 235—61.5)**



9. In a trunnion tilt corrector mechanism for a gun mounted on a ship, mechanism for generating corrected adjustments to be applied to said gun in elevation $E_c$ and deflection $D_c$ comprising first, second and third shafts for introducing respectively ascertained values of elevation E, and deflection D, and the angle of cross roll $\gamma$ of said ship about the line of sight to a target, a cam operated by said first shaft and a follower operated by the cam to generate a determined function of the calculated elevation value $f(E)$ having approximately the following value:

$$\frac{1}{19}\left(18E-\frac{92}{17}\tan^{-1}\frac{\text{Sin } 3.6E}{3.75+\text{ Cos } 3.6E}\right)$$

first generating means operated responsively to said follower and said third shaft for generating the products

$$f(E)\ \text{Cos}\ \frac{29}{21}\gamma$$

and

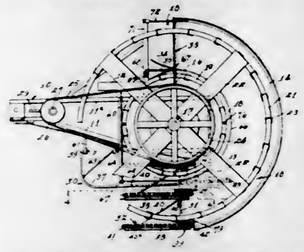
$$f(E)\ \text{Sin}\ \frac{29}{21}\gamma$$

second generating means operated responsively to said second and third shafts for generating the products D sin $\gamma$ and D cos $\gamma$, and means operated responsively to said first shaft, said cam follower in generating said value $f(E)$ and said first and second generating means constructed and arranged to utilize said ascertained values of elevation E introduced by said first shaft, said value $f(E)$ generated by said cam follower, and said products

$$f(E)\ \text{Cos}\ \frac{29}{21}\gamma$$

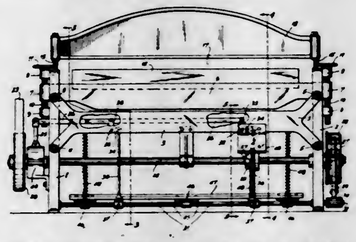
and D sin $\gamma$ generated by said first and second generating means to generate the corrected adjustment in elevation $E_c$ to be applied to said gun, and means operated responsively to said first and second generating means constructed and arranged to utilize said products $f(E)$ sin $\gamma$ and D cos $\gamma$ generated by said first and second generating means to generate the corrected adjustment in deflection $D_c$ to be applied to said gun.

**2,390,375**
**HEMP TURNING MACHINE**
**Joseph B. Kucera, Traer, Iowa**
**Application January 7, 1944, Serial No. 517,453**
**5 Claims. (Cl. 56—370)**



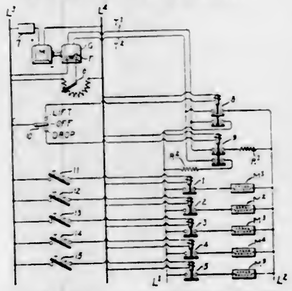
1. In a machine for turning over windrowed hemp with the butt ends of the hemp at one side of a windrow, pick-up means including a series of downwardly and forwardly supported arms spaced transversely of said machine, endless conveyors corresponding to said arms, with a conveyor extending along the top and bottom of an associated arm, pick-up fingers carried on each conveyor, an elongated guide member, means pivotally supporting said guide member for up and down pivotal movement, with said guide member having a straight portion extended rearwardly in a spaced relation above said arms and another portion curved upwardly and forwardly of said arms, said guide member, on advance of said machine along the ground, being at said one side of a windrow, with said curved portion adapted to ride across said butt ends to urge the hemp against the ground ahead of said arms, and said straight portion being yieldably engageable with the said butt ends to support the hemp on said pick-up means against longitudinal tipping movement.

**2,390,376**
**CUTTING MACHINE**
**George O. Langenberg, Ballwin, Mo., assignor of one-half to Elmer D. English, Clayton, Mo.**
**Application August 3, 1944, Serial No. 547,838**
**11 Claims. (Cl. 164—23)**



1. In a cutting machine having a device for operating cutting dies, and a rotary shaft supported for intermittent rotary movements of one complete revolution only during each of said movements and having operative connection with said device; a continuously rotating pulley on said shaft, connections movable from a starting position for controlling rotation of said shaft by said pulley, an abutment device for positively preventing more than one complete revolution of said shaft, a treadle controlling said connections and said abutment device to leave said shaft rotative by said pulley, and a spring for moving said abutment device to position to prevent more than one complete revolution of said shaft by said pulley and for moving said connections to said starting position.

**2,390,377**
**CONTROLLER FOR LIFTING MAGNETS**
**Arvid E. Lillquist, Milwaukee, and Oliver P. Proudfoot, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware**
**Application December 10, 1942, Serial No. 468,520**
**4 Claims. (Cl. 175—335)**



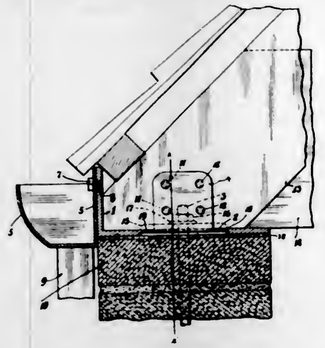
4. In combination, a plurality of lifting magnets each having an energizing winding, a source of power, a variable voltage generator having a driving motor to be energized from said source, means for connecting said windings in parallel relation, a pair of electroresponsive control switches to be energized from said source alternatively, one of said control switches being responsive to supply current from said generator to said magnet windings in one direction and the other being responsive to supply current to said windings in a reverse direction, resistance means to be included in circuit with said magnet windings upon response of said last mentioned switch and control means for varying the voltage of the current supplied by said generator for variation of the attractive force of said magnets, said control means including a field winding for said generator to be supplied with current from said source and a rheostat for regulating the current strength of said field winding.

**2,390,378**
**METHOD OF MAKING SILICONE RESINS**
**James Marsden, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**No Drawing. Application August 21, 1942, Serial No. 455,616**
**6 Claims. (Cl. 260—2)**

1. In the method of hydrolyzing a mixture of silicon halides including methyl silicon halides and containing a sufficient number of halogen atoms attached directly to silicon to form insoluble gels when mixed directly with water, the steps which comprise dissolving said silicon halide mixture in an unsymmetrical ketone selected from the class consisting of methyl ethyl, methyl propyl, methyl isopropyl, methyl isobutyl, and methyl amyl ketones and slowly adding the resultant solution to a hydrolysis medium consisting of liquid water under conditions such that the temperature of the medium is maintained below 30° C. and no ice is formed during the hydrolysis.

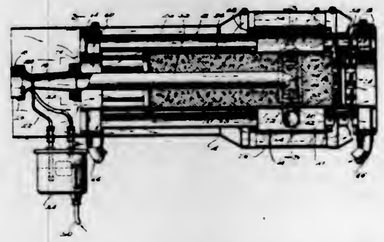


**2,390,379**
**WALL PLATE**
**Edward William Martin, Roxbury, Conn.**
**Application September 16, 1944, Serial No. 554,489**
**8 Claims. (Cl. 108—1)**



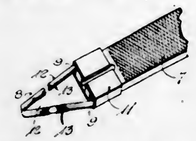
1. A wall-plate for securing various building elements at the top of a building wall, said wall-plate being many times as long as it is wide and having a horizontal portion adapted to seat on the top of the building wall and a vertical portion extending at least in part above said horizontal portion thus forming an angled, roof rafter seat, the said horizontal portion being provided with elongated apertures for receiving means to secure the wall-plate to the top of the building wall and means to secure the roof rafters and ceiling joists of the building to the wall-plate, and the said vertical portion including means to secure a gutter thereto.

**2,390,380**
**HEATER**
**Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased.**
**Application February 25, 1943, Serial No. 477,081**
**11 Claims. (Cl. 126—116)**



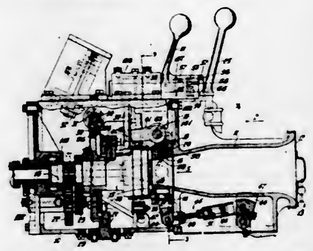
1. A heater of the class described, comprising a combustion chamber having a cylindrical wall, a heat exchanger communicating with each end of said combustion chamber to receive hot products of combustion therefrom, a muffler located in said combustion chamber and said heat exchangers, an induction tube of uniform diameter extending through one of said heat exchangers and part of said muffler, said induction tube having a curved end in the longitudinal center of said combustion chamber and delivering combustible mixture tangentially of the wall thereof, an igniter communicating with the interior of said combustion chamber, heat exchangers and muffler and directing ventilating air thereover, said casing having an inlet opening adjacent the free end of one of said heat exchangers and an outlet opening adjacent the free end of the other heat exchanger.

**2,390,381**
**NAIL CLEANING ATTACHMENT FOR NAIL FILES**
**Richard C. McRoberts, Tama, Iowa**
**Application February 17, 1944, Serial No. 522,775**
**5 Claims. (Cl. 132—73)**



2. A nail cleaning device for dislodging scrapings from finger nails comprising a length of metal fabricated to an acute angle, the material being semi-circular in cross section throughout its length, the curved surfaces of the angularly disposed portions of the metal being adjacent to one another and the flat surface of each portion being the outer surface of said angle, which surfaces are perpendicular to a plane containing both portions of said angle.

**2,390,382**
**FUSE-SETTING APPARATUS**
**Alfred Henry Musson, Woolwich, London S. E. 18, and Valentine Pearce Harvey, Deptford, London S. E. 8, England**
**Application July 2, 1941, Serial No. 400,850**
**In Great Britain July 2, 1940**
**7 Claims. (Cl. 86—23)**

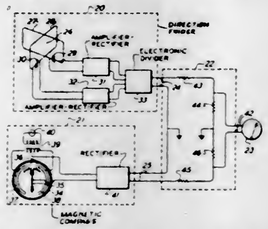


1. In a fuse-setting apparatus of the kind having a gripping device comprising sharp gripping members adapted to engage and grip the movable element of a fuse, the combination of a driving lever operably coupled to the gripping device to effect angular movement thereof, a control lever, means operably coupled to the control lever and adapted on movement of the latter to hold a shell against angular movement and to move the gripping members inwards so that they can grip the movable fuse-element, said means including a wedge-like slidable member adapted on movement in one direction along the axis of rotation of the gripping device, to force the sharp gripping members inwards, a catch to prevent operative movement of the driving lever and a lost motion operative connection between the

catch and the control lever, whereby the catch is released only after the control lever has moved a sufficient distance to cause the shell to be held and the movable fuse-element to be gripped.

---

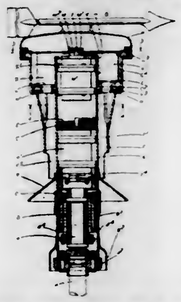
**2,390,383**
## NAVIGATIONAL METHOD AND APPARATUS
**Jacob Neufeld, Tulsa, Okla.**
**Application June 16, 1942, Serial No. 447,240**
**6 Claims. (Cl. 250—11)**



1. In a navigational device carried by a mobile craft for indicating the position of said craft with respect to its surroundings, means positioned in a definite relation to the longitudinal axis of said craft and responsive to incoming radio waves in the neighborhood of said craft for producing a current representing the angular value of the direction of said incoming radio waves with reference to said longitudinal axis, said current being independent of the intensity of said waves and increasing in magnitude with said angular value, a second means positioned in a definite relation to the longitudinal axis of the craft and comprising a compass in which a movable member is orientable so as to assume a fixed orientation with respect to the earth, said second means producing a signal representing the orientation of said member with reference to said longitudinal axis, and means responsive to said current and to said signal for producing an indication representing the position of the craft with respect to its surroundings.

---

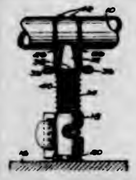
**2,390,384**
## WIND INDICATOR
**Ralph Poole, London, England**
**Application August 15, 1944, Serial No. 549,551**
**In Great Britain June 28, 1943**
**6 Claims. (Cl. 73—189)**



1. A wind indicator comprising in combination a fixed vertical support, a head freely rotatable on the upper end portion of this support, means operated automatically by the wind for maintaining this head oriented with respect to the direction of the wind, an annular chamber in this head across which extends at least one fixed partition, means providing openings through a wall of this chamber these openings being oppositely disposed in relation to the axis about which the head rotates so that wind can enter the chamber and after passing through it issue therefrom, a radial arm rotatable in this chamber about its centre and carrying a plate constituting a vane whose contour approximates to the cross-section of the chamber and extends radially across it, at least one spring operative on this vane-carrying arm and offering resistance to rotation of the arm by the pressure on the said vane of the wind flowing through the said annular chamber, means comprising a transmitter responsive to these angular deflections of the said vane in the chamber, and means comprising a transmitter responsive to the angular movements of the whole head in accordance with the wind direction.

---

**2,390,385**
## MOUNTING FOR LIGHTING TUBES
**Earle E. Pooler, Cambridge, Mass., assignor to himself, and Harry Boyer, Cambridge, Mass., and Christian A. Chrestensen, Stoughton, Mass.**
**Application July 8, 1944, Serial No. 544,086**
**12 Claims. (Cl. 248—50)**



1. A clip for lighting tubes, comprising a single piece of wire bent to provide two U-shaped wire portions embodying two pairs of legs respectively at opposite sides of the clip, the end portions of the wire extending angularly from their legs in parallel relation at one side of the clip to form supporting pivot means for the clip and the intermediate portion of the wire at the other side of the clip providing a loop connecting the two legs of the clip, the resiliency of the clip normally moving said end portions toward each other and being adapted to hold the pivot means of the clip engaged with cooperating pivot means on which the clip is mounted.

---

**2,390,386**
## NAPPED FABRIC AND METHOD
**George S. Radford, Norwalk, Conn., assignor to Nashua Manufacturing Company, Nashua, N. H., a corporation of New Hampshire**
**Application June 29, 1943, Serial No. 492,705**
**14 Claims. (Cl. 28—73)**

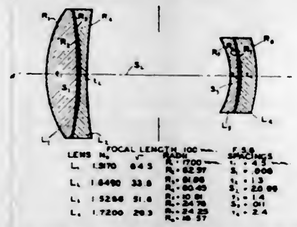


1. As a new article of manufacture, a non-shedding napped fabric, such as a household blanket, comprising an interwoven yarn structure including napped yarns providing the nap of raised fibres thereof, said napped yarns including in the raised nap fibres thereof potentially adhesive fibres bonded by the potentially adhesive substance thereof to contiguous fibres some of which are raised fibres of other, adjacent napped yarns, to increase the anchorage of said nap to said structure.



---

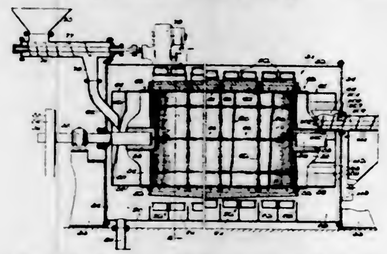
**2,390,387**
## TELEPHOTO OBJECTIVE
**Wilbur B. Rayton, Rochester, and Lena M. Hudson, Brighton, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York**
**Application January 31, 1944, Serial No. 520,490**
**4 Claims. (Cl. 88—57)**



1. An objective lens comprising spaced front positive and rear negative components, said negative component consisting of two meniscus elements with their concave surfaces facing the front positive component, said elements having refractive indices that differ by at least 0.160, the inner adjacent faces of said elements having radii of curvature which are each not less than 20% or more than 35% of the equivalent focal length of the lens.

---

**2,390,388**
## METHOD AND APPARATUS FOR SOLVENT EXTRACTION
**Thomas M. Rector, Morristown, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware**
**Application June 12, 1940, Serial No. 340,205**
**9 Claims. (Cl. 23—270)**

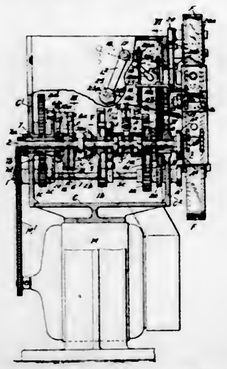


1. In a method of extracting soluble matter from particles of solid material, the steps of moving said material in one direction through a solvent treating zone, flowing a body of solvent in the opposite direction below and out of contact with said zone, lifting portions of said solvent body above said zone at a plurality of points along its length, and percolating the lifted portions of solvent down through said material, said percolating solvent draining from the material in said zone back into the body of solvent below.

7. Apparatus for extracting soluble matter from particles of solid material comprising a rotatable, cylindrical drum having a perforated wall, means for feeding said material through said drum in one direction, a plurality of solvent compartments having solvent levels below and out of contact with said drum, means for feeding solvent from one compartment to another in succession in the opposite direction, and means carried by said drum for lifting solvent from said compartments and emptying it on the top of the drum to percolate through said material therein and drain from the bottom of the drum back into said compartments.

---

**2,390,389**
## CINEMATOGRAPH APPARATUS
**Arnold Redler, Stroud, England**
**Application October 20, 1942, Serial No. 462,713**
**In Great Britain October 24, 1941**
**16 Claims. (Cl. 88—18)**



1. In cinematograph apparatus, feeding mechanism comprising a feeding member cooperating with the film, and means for operating the feeding member to vary the frequency of successive frames while maintaining the rate of shifting from one frame to the next at a sufficiently high speed to assure persistency of vision, said operating means including an element driven at a constant rate of speed, a variable speed element, coupling means between said elements, and means cooperating with said coupling means for increasing the speed of said variable speed element during the film shifting period of operation.

---

**2,390,390**
## HEAT DRYING PRINTING INKS AND VEHICLES THEREFOR
**Charles A. Rietz, Park Ridge, and Francis J. Jesck, Chicago, Ill., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio**
**No Drawing. Application July 21, 1942, Serial No. 451,764**
**8 Claims. (Cl. 106—26)**

1. A vehicle useful in the preparation of printink inks adapted to be dried by heating films thereof to temperatures of the order of 200–240° F., comprising a solution of a resin in a solvent therefor, which is substantially non-volatile at 70° F., but which evaporates rapidly when the film is heated to the temperatures of the order of 200–240° F., the vehicle having distributed

therethrough, in colloidal form, from 0.5 to 6% of a thermoplastic film-forming agent which remains insoluble in the resin solvent at both room temperature and at 200° F., and which will not melt completely on heating to the heat employed in drying, whereby the films are less sticky than similar films made without the added film-forming agent.

---

**2,390,391**
**IODIZATION OF TEXTILE FABRICS**
**Charles Rudolph Hans Ritter, London, England**
**No Drawing. Application August 4, 1942, Serial No. 453,609. In Great Britain August 25, 1941**
**7 Claims. (Cl. 167—84)**

7. A textile fabric impregnated with isinglass and iodine, the isinglass preventing substantially any chemical reaction between the fabric and the iodine and binding the iodine mechanically without substantially reacting chemically with the iodine, whereby free active iodine is released from the impregnated fabric when moistened.

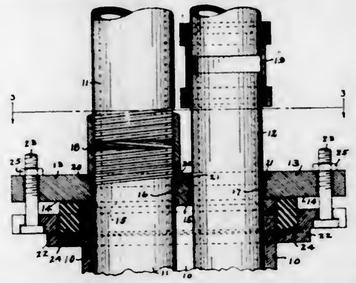
---

**2,390,392**
**CARTON AND CARTON BLANK**
**Arthur Rous, New York, N. Y.**
**Application April 7, 1944, Serial No. 530,033**
**2 Claims. (Cl. 229—17)**



1. A carton blank which has a longitudinal axis, said blank having body-walls which are bendable, relative to each other along longitudinal hinge-lines to provide the body-walls of the body of the assembled carton, one of said body-walls being a closure-supporting wall, said closure-supporting wall having a free edge in the blank, said closure-supporting wall having a lateral reentrant edge which extends inwardly from said free edge, a lateral edge of said closure-supporting wall having a connecting flap turnably connected thereto at a lateral hinge-line, said connecting flap having a closure-flap turnably connected thereto at a longitudinal hinge-line, said closure-flap having a free edge in the blank, said closure-supporting wall being cut along a longitudinal cut-line which is coincident with said longitudinal hinge-line to provide a supplemental flap which is longitudinally alined with said closure-flap, said supplemental flap being bendable relative to said closure flap at said lateral hinge-line, said body walls other than said closure-supporting wall having end flaps which are laterally alined with said connecting flap, said end flaps being perforated and being inwardly bendable along said lateral hinge-line to provide a perforated pouring end-wall for the assembled carton, said connecting flap being adapted to overlie and to be connected to the outermost end flap of said pouring end-wall of the assembled carton, said closure-flap being dimensioned to overlie the outlet opening of said pouring end-wall of the assembled carton, said supplemental flap being shaped to be movable relative to said closure-supporting wall when said closure-flap is bent outwardly.

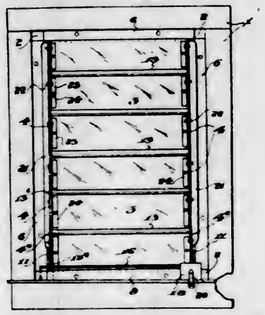
**2,390,393**
**WELL CASING CAP**
**William Rubly, Indianapolis, Ind.**
**Application March 22, 1944, Serial No. 527,661**
**1 Claim. (Cl. 285—21)**



For sealing a casing having a straight external wall end portion and supporting a pair of drop pipes, one of which at least carries a coupling collar, and both connecting to a common member suspended by the pipes within the casing, a plate to rest directly upon the upper end of the casing and extend laterally therebeyond; said plate having a pair of holes to receive said pipes therethrough, centered and spaced apart on a common diameter of the plate; both of said plate holes having their marginal walls outwardly flaring at the top side of the plate; a clamp ring slidable along the casing under said plate; an elastic sealing ring between said plate, casing, and ring; means for compressing the ring between the plate and ring; and a flowable sealing ring in the flared ends of each of said plate holes; whereby said coupling of the one pipe may rest on the sealing ring around it tending to force that ring downwardly into the space between the pipe and the hole wall and the ring carry the load of both of said pipes.

---

**2,390,394**
**WINDOW**
**Goble Donald Smith, Dallas, Tex.**
**Application September 18, 1943, Serial No. 502,890**
**2 Claims. (Cl. 20—53)**



1. A window structure comprising a frame, a plurality of intermediate cross-bars in the frame, the cross-bars including strips of yieldable insulating material on opposite under and upper marginal edges of the cross-bars, a plurality of disks and a plurality of glass panels, each disk having a strip welded to the center thereof and



extending thereacross, a glass panel having each end removably fastened to one of said disks and the strip welded thereon, a screw traversing the strips and panels for holding the panels in easily removable position between said cross-bars, whereby the longitudinal marginal edges of the panels will contact the strips on the intermediate cross bars when the panels are in closed position to provide a weather-tight seal of the panels.

---

**2,390,395**
**SORBITAN AND PROCESS FOR MAKING THE SAME**
**Sol Soltzberg, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application April 15, 1941, Serial No. 388,645**
**6 Claims. (Cl. 260—345)**

2. The process which comprises heating sorbitol of not less than 90% purity, in the presence of a mineral acid, until only 1 mol of water is removed therefrom, diluting the product with water, purifying the product with activated carbon, neutralizing the said acid, dissolving the solution in a monohydric alcohol of not more than 3 carbon atoms, removing the salt formed by neutralizing the acid not later than after said dissolving step, seeding the alcoholic solution with 1,4 sorbitan crystals, and crystallizing 1,4 sorbitan from said alcoholic solution.

---

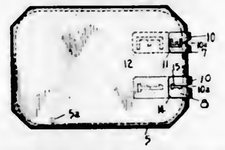
**2,390,396**
**ACCOUNTING MACHINE**
**Pascal Spurlino and Konrad Rauch, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Original application October 2, 1940, Serial No. 359,374. Divided and this application September 13, 1943, Serial No. 502,128**
**7 Claims. (Cl. 235—3)**



1. In a machine adapted to perform adding operations and total-taking operations; manipulative means to control the machine to perform adding operations; manipulative devices to control the machine to perform total-taking operations; record strip feeding means; feed actuating means adapted to be coupled to and uncoupled from the feeding means, said feed actuating means, when coupled to the feed means, being coupled in such relationship with the feed means as to feed the record strip one extent; a second feed actuating means adapted to be coupled to the feeding means when the first feed actuating means is uncoupled and adapted to be uncoupled from the feed means when the first feed actuating means is coupled to said feeding means, said second feed actuating means, when coupled to the feed means, being coupled in such relationship with the feed means as to feed the record strip an extent greater than the feed by the first-named feed actuating means; common operating means for both of said feed actuating means whereby the first-named and the second-named feed actuating means are operated the same extent; and means controlled by the manipulative means and the manipulative devices to couple the first feed actuating means with the feeding means when any of said manipulative means is operated and to couple the second feed actuating means with the feeding means when any of said manipulative devices is operated.

---

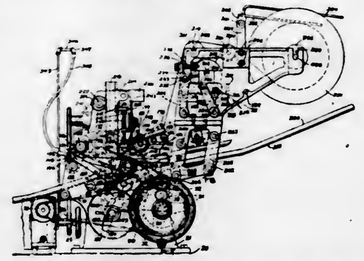
**2,390,397**
**DENTAL X-RAY FILM IDENTIFIER**
**Frank J. Stadler, New York, N. Y.**
**Application January 18, 1945, Serial No. 573,370**
**4 Claims. (Cl. 250—67)**



1. The combination with a dental X-ray film packet, of a transparent clip attachable to one side edge of the packet and producible on the film when the film is exposed to X-rays in making a dental picture, said clip having a stencilled portion so constructed that it can be produced in positive order on the film when attached to the packet to correctly indicate and identify the reading side of the film.

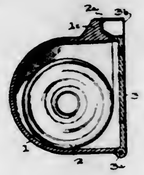
---

**2,390,398**
**MACHINE FOR APPLYING STRIPS OF MATERIAL TO CURVED SURFACES**
**Harry G. Steinmetz, Port Chester, N. Y., assignor to E. V. Hadley, New York, N. Y.**
**Application January 7, 1943, Serial No. 471,561**
**9 Claims. (Cl. 154—41)**



2. In a machine operating cyclically for applying strip material to the cylindrical surfaces of drawing rolls, roller means for floatingly engaging the surfaces of said drawing rolls and including at least one roller the surface of which is fluted, means for applying adhesive to said strip material, means for feeding said strip material between said roller means and the surface of a drawing roll, a main shaft carrying a driven member, means for driving the latter, manually operable clutch means for placing said shaft in driven relation to said driven member, a second shaft in said machine, gearing between said first and said second shafts, a second clutch on said first shaft, including spring means tending to urge the same into engagement, disengaging means for said second clutch, gearing between said second clutch and said fluted roller, and cam means on said second shaft cooperating with said disengaging means for defining the periods of engagement and disengagement of said second clutch during each cycle of said machine.

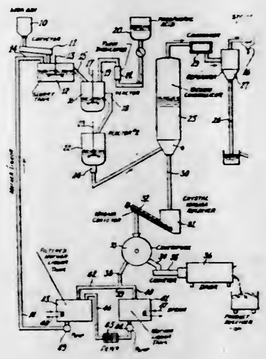
**2,390,399**
**PAPER DISPENSER**
**Kenneth Tator, Fairfax County, Va., and Gustave Holmgren, Washington, D. C.**
**Application November 6, 1943, Serial No. 509,268**
**9 Claims. (Cl. 242—55.2)**



2. A dispenser for sheet material in roll form comprising, in combination, a box-like casing mounted with its open side in a vertical plane, a vertical closure plate covering the open side of said casing, a pivotal connection between said casing and said plate at the lower edge of said plate, and a passageway for withdrawing sheet material from said casing formed between the upper edge of said casing and said closure plate, the upper edge of said casing and the adjacent portion of said closure plate being formed of relatively thick portions, and said passageway being formed with a tortuous path to exert a snubbing action on said material and to thereby prevent the material from falling back into said casing.

---

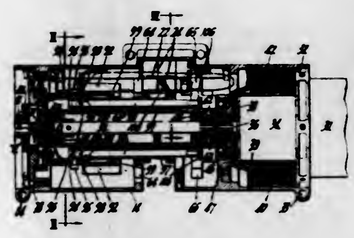
**2,390,400**
**PRODUCTION OF SODIUM PHOSPHATES**
**George E. Taylor, Anniston, Ala., assignor to Monsanto Chemical Company, a corporation of Delaware**
**Application June 26, 1942, Serial No. 448,529**
**8 Claims. (Cl. 23—107)**



1. A continuous process for making disodium phosphate dihydrate which comprises preparing a flowable slurry of soda ash in disodium phosphate mother liquor, introducing said slurry into a reactor maintained above 95° C. but below the boiling point of the slurry, adding phosphoric acid to said slurry to partially react with the soda ash to liberate a portion of the carbon dioxide and to form a liquor containing disodium phosphate, sodium bicarbonate and monosodium phosphate, flowing said liquor to a second reactor maintained at a temperature of about 85° C. where a partial reaction between the monosodium phosphate and sodium bicarbonate occurs thus liberating additional quantities of carbon dioxide and leaving some unreacted sodium bicarbonate and monosodium orthophosphate in solution in the mother liquor, introducing the mother liquor thus produced into a continuous vacuum crystallizer maintained at a temperature of from 50 to 75° C. to form a crystal magma, flowing said magma to a centrifuge to separate the crystals from the mother liquor, treating a portion of said mother liquor with an adsorbent material to remove foam producing impurities, filtering and combining said treated liquor with the untreated mother liquor, reheating the combined mother liquors to a temperature of from 90 to 95° C. and then continuously returning the reheated mother liquor to the first step of the process where it is mixed with soda ash to form additional quantities of slurry.

---

**2,390,401**
**ORDNANCE**
**John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.**
**Application March 16, 1942, Serial No. 434,826**
**7 Claims. (Cl. 89—33)**



1. An ammunition feed mechanism for use in feeding successive rounds of amunition to a gun from an integrating link cartridge belt, said mechanism comprising a casing having an ammunition belt inlet port and a link discharge portion, a reel rotatably mounted within said casing and having teeth portions extending therefrom for engagement in geared relation with the feeding ammunition belt, said casing having an ammunition outlet port opposed to said inlet port, means on said reel for maintaining the ammunition belt forming links against displacement in directions axially of the reel as said links engage said reel, means carried by said reel for separately engaging successive ammunition rounds at the primer end portions thereof as they enter said casing and moving said rounds rearwardly relative to their corresponding links for disengagement of said rounds from said links prior to rotation of said rounds by said reel into positions of registry with said outlet port, and means carried by said reel to bear against said links subsequent to disengagement thereof from the corresponding ammunition rounds for displacing said links out of registry with said ammunition outlet port and in registry with said link discharge portion of said casing whereby said links are prevented from entering said outlet port with said rounds.



**2,390,402**
**METHOD OF PASSIVATING STAINLESS STEELS**
**Herbert H. Uhlig, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**No Drawing. Application September 2, 1942, Serial No. 457,045**
**2 Claims. (Cl. 148—6)**

1. The method of improving the appearance and resistance to corrosion of stainless steel containing about 18 percent chromium and about 8 percent nickel which comprises immersing said steel, after first being pickled, in an aqueous solution of hydrochloric acid having a normality of from 6 to 9 and containing less than one percent quinolin ethiodide.

---

**2,390,403**
**METHOD AND APPARATUS FOR THE LAUNCHING OF REVETMENT MATS**
**Gerard van der Rest, Carmel-by-the-Sea, Calif.**
**Application January 14, 1944, Serial No. 518,488**
**6 Claims. (Cl. 61—38)**



3. The method of laying a prefabricated flexible revetment mat in an at least partially submerged location comprising wrapping said mat onto a float drum, moving the drum so charged into the water to float it, moving the floating drum to a submerged edge of said location, causing water to enter the drum in an amount sufficient to sink it, rolling the sunk drum to unwrap and lay the mat on said location and disengaging the drum from the unwrapped mat.

---

**2,390,404**
**METHOD FOR MANUFACTURING OPTICAL LENSES AND THE LIKE**
**Victor Walker, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y.**
**Application April 7, 1943, Serial No. 482,173**
**1 Claim. (Cl. 41—42)**



The method of providing a lens or the like, comprising mechanically abrading a glass stock piece at a surface portion thereof, reducing and clearing said abraded surface portion thereof by reaction of the abraded glass structure thereof with a first mixture of hydrofluoric acid and concentrated sulphuric acid and water, then mechanically displacing the acid reaction residue from said surface, and then further clearing and polishing said surface portion with a second mixture of hydrofluoric acid and sulphuric acid wherein the sulphuric acid ingredient thereof is substantially diluted relative to the concentration form of sulphuric acid in said first mixture.

**2,390,405**
**METHOD AND MEANS FOR PROCESSING BARIUM CONTAINING GLASS STOCK TO PRODUCE OPTICAL ELEMENTS OR THE LIKE**
**Victor Walker, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y.**
**No Drawing. Application April 7, 1943, Serial No. 482,174**
**2 Claims. (Cl. 41—42)**

1. The method of processing a barium containing glass stock piece to provide thereon a finished surface of optically regular and light transmissive form, comprising the steps of alternately immersing said stock piece in an acid bath until salt by-products of the acid reaction upon the glass appear to coat the stock piece and rinsing the coating by-products therefrom with water until an optically clear and regularly profiled surface of prime glass stock is exposed, said acid bath comprising a mixture of water and hydrofluoric and sulphuric acids wherein the proportion of sulphuric to hydrofluoric acid is of the order of 7 to 1 or greater depending upon the proportion of barium to silica content in the glass stock piece.

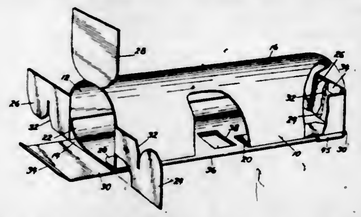
---

**2,390,406**
**ALKALINE COMPOSITION OF MATTER**
**Walter F. Wegst, Ralph McNabney, and Leslie R. Bacon, Wyandotte, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan**
**No Drawing. Application July 17, 1943, Serial No. 495,186**
**9 Claims. (Cl. 23—63)**

1. A composition of matter comprising a solid alkaline compound from the group consisting of the alkaline-reacting alkali hydroxides, -phosphates, -carbonates and -silicates admixed with an amount of a member of the group consisting of dimethoxy tetraethylene glycol, diethylene glycol dimethyl ether and dioxane, said amount being not below 0.5% by weight but not above the quantity which would result in liquid separation by drainage.

---

**2,390,407**
**DISPENSING CONTAINER FOR ROLL PAPER**
**Cecil H. N. R. Willis, Hamilton, Ontario, Canada, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada**
**Application January 29, 1943, Serial No. 473,902**
**2 Claims. (Cl. 206—58)**



1. A dispensing container for roll paper fabricated from a single blank of sheet material to form a box having a front wall, a back wall, a top wall, a bottom wall, and two end walls, said box provided with a passageway between the bottom margin of the front wall and the front margin of the bottom wall through which paper may be withdrawn from the roll and severed against a margin of one of said walls extending along

said passageway, said front and back walls connected across the top by a top wall, said front wall and back wall each provided with a flap at each end having a slit extending partially thereacross, said flaps folded into overlapping relationship across the ends of the box with the slitted portions interlocked connecting said front and back wall together, said top wall having a flap at each end folded over the end of the box inside of the end flaps of the front and back walls, said bottom wall having a flap at each end folded over the flaps of the front and back walls across the end of the box and having tab means inserted into the box over and behind said flaps securing the several flaps in position across the ends of the box and holding the bottom wall upwardly in passageway defining position with respect to the lower margin of the front wall.

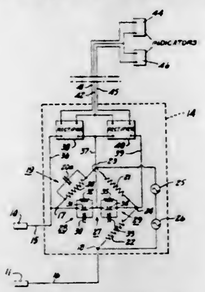
---

**2,390,408**
**ANTIFOULING COMPOSITION**
**George H. Young, Pittsburgh, Pa., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application October 24, 1941, Serial No. 416,386**
**5 Claims. (Cl. 106—15)**

1. An antifouling composition for application to surfaces subjected to immersion in sea water and adapted to prevent the attachment thereto of fouling marine organisms while exerting a protective non-corroding action on said surfaces, said composition comprising as the sole film forming agent a substantially water insoluble solvent-dispersed film forming organic vehicle having a permeability of 5 to 200 milligrams of water per mil of film thickness per square inch per 24 hours and a toxic component which is a condensation product of a mercuric salt and a heterocyclic nitrogen base selected from the group consisting of the pyridine, quinoline and isoquinoline bases together with their lower alkyl, hydroxy and halogenated derivatives, said condensation product having mercury directly joined to a carbon atom in the heterocyclic nitrogen base system, the effective proportion of toxic compound amounting to from 2 to 50% by weight of the total non-volatile content.

---

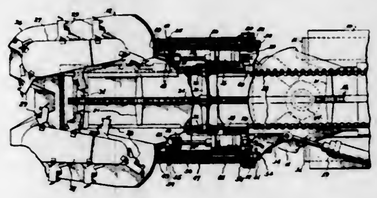
**2,390,409**
**ELECTRICAL LOGGING**
**Charles B. Aiken, North Plainfield, N. J., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware**
**Application February 4, 1942, Serial No. 429,476**
**5 Claims. (Cl. 175—182)**



4. Apparatus for investigating earth formations traversed by a bore hole, comprising a pair of spaced apart electrodes in the bore hole, an electrical network in the bore hole and connected to said electrodes to form an impedance bridge of which the electrodes and the intervening formation constitute one arm, high and low frequency sources of alternating current at the surface of the earth, an electrical circuit connected to said sources and said impedance bridge for supplying high and low frequency alternating current to the energizing diagonal of the latter, a plurality of filter means connected to the output diagonal of said bridge for separating the high and low frequency outputs of the bridge, a plurality of rectifying means connected to said respective filter means, indicating means at the surface of the earth, and electrical circuit means including said first named electrical circuit for transmitting the outputs of said rectifying means to said indicating means.

---

**2,390,410**
**MATERIAL GATHERING AND LOADING MACHINE**
**Chester E. Andershock, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application August 14, 1944, Serial No. 549,389**
**3 Claims. (Cl. 198—8)**



1. In a low type loading machine, a main frame, a pair of laterally spaced continuous tread devices for supporting said main frame for movement along the ground, a swinging frame projecting forwardly of the forward end of said main frame and mounted thereon for horizontal swinging movement about a vertical axis, an elevating conveyer pivotally mounted on said swinging frame, adjacent the forward end thereof, for pivotal adjustment about a transverse axis disposed in advance of said main frame, said conveyer having a gathering head on the forward end thereof and extending upwardly at an inclined angle from a point in advance of said swinging frame to and along said main frame, means for laterally moving said swinging frame and conveyer with respect to said main frame for positioning said gathering head to one side or the other of said main frame, two double acting fluid pressure cylinders and pistons for elevating or lowering said gathering head and conveyer about said transverse axis, each of said cylinders and pistons extending along one side of said conveyer above the pivotal axis thereof but within the upper limits of the side walls of said conveyer, when the gathering head is in a depressed position, said cylinders and pistons having pivotal connection with said swinging frame and the forward portion of said conveyer, on opposite sides of the axis of pivotal connection of said conveyer to said swinging frame, and yieldable means extending along opposite sides of said conveyer and disposed above said pivotal axis and pivotally connected between said swinging frame and said conveyer



for urging said gathering head in an elevated position and for holding it in floating engagement with the ground when fluid under pressure is relieved from said cylinders and pistons.

---

**2,390,411**
**SULPHONYL CYANAMIDES**
**George W. Anderson, Stamford, and Richard O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application August 6, 1941, Serial No. 405,687**
**1 Claim. (Cl. 260—397.7)**

Sulphanilyl cyanamide.

---

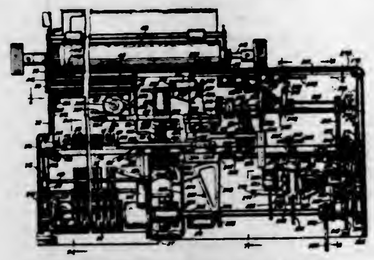
**2,390,412**
**CARTON**
**Arthur H. Axberg, Bayside, N. Y.**
**Application July 12, 1944, Serial No. 544,506**
**2 Claims. (Cl. 229—51)**



1. A carton comprising, a front panel, a rear panel, a pair of side panels, a pair of side flaps hingedly secured to said side panels, a rear flap hingedly secured to said rear panel, a tuck-in tab hingedly secured to the free end of said rear flap, a front flap hingedly secured to said front panel, a medial line of severance running longitudinally of said front flap, a longitudinal slot in said front flap running parallel with and adjacent to the score line connecting said front panel with said front flap, and adhesive means for securing the free end of said front flap to the top side of said rear flap adjacent said rear panel.

---

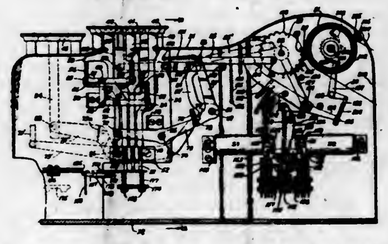
**2,390,413**
**PRINTING MACHINE**
**Waldemar A. Ayres, Kew Gardens, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application December 31, 1942, Serial No. 470,741**
**33 Claims. (Cl. 197—20)**



1. In an automatic printing machine with a set of control keys and printing mechanism operated thereby, the combination of a first program device including a tape perforating mechanism operated under control of said keys by a preliminary operation thereof, means under control of said tape for operating said keys for a secondary operation to operate said printing mechanism, a second program device having a prepared tape for operating said keys to operate said printing mechanism, and means cooperating with the keys and both program devices for selectively choosing one of three styles of operation, manual operation of the keys for printing control, printer operation under control of the keys as controlled by the tape of said first program device, or printer operation under control of the keys as controlled by the tape of said second program device.

---

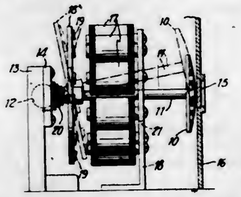
**2,390,414**
**STENOGRAPHIC MACHINE**
**Waldemar A. Ayres, Kew Gardens, N. Y., and Ralph E. Page, West Orange, N. J., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application July 29, 1943, Serial No. 496,806**
**9 Claims. (Cl. 197—9)**



9. In a stenographic printing machine, a set of twelve printing wheels, each wheel bearing ten characters, five of which are effective for normal printing and the other five for selection of shift operations, a wheel operating means including a differential positioning mechanism for each wheel, a set of three keys operable singly or in combination for adjusting said differential mechanism to one of five different extents, and a shift mechanism cooperating with said wheel operating means to operate the wheel beyond the normal position to select the shift characters.

---

**2,390,415**
**RECORD CONTROLLED ANNUNCIATOR**
**William J. Bailey, Packanack Lake, N. J., and Charles E. Whiteman, Richmond Hill, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application April 11, 1944, Serial No. 530,570**
**6 Claims. (Cl. 177—327)**



6. In an indicating device, a stationary window, a plurality of characters spaced about said window in a plane substantially parallel thereto,

said plurality of characters being carried on a common supporting element, said element being movable in a different direction transverse to the window for each of said characters and means for selectively moving said element in one of said different directions to present the related character to said window.

---

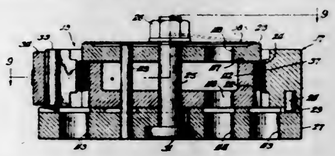
2,390,416
**ORTHOPEDIC CHILD'S SANDAL**
Ernest H. Bettmann, New York, N. Y., assignor to Walter Liebrecht, New York, N. Y.
Application June 6, 1945, Serial No. 597,868
10 Claims. (Cl. 36—8.5)



1. A sandal comprising a flat bottom member open at the sides and front and having a back portion to embrace the heel, a scaphoid pad at the medial side of said member, a forefoot pronator wedge thereon for the metatarsal heads, and a heel supinator wedge at the medial side thereof, the fore part of said member extending beyond said pronation wedge.

---

2,390,417
**METHOD OF MANUFACTURING PISTON RINGS**
Harry M. Bramberry, Oak Park, Ill.
Application July 14, 1943, Serial No. 494,614
21 Claims. (Cl. 148—12)

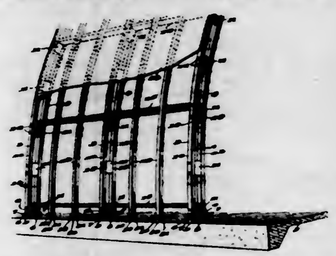


1. The method of manufacturing articles having at least one relatively small cross-sectional dimension and composed of a steel alloy having the property of growing when subjected to a nitriding heat treating process, which method comprises confining a blank from which said article is to be made in a furnace fixture having an internal contour corresponding to the external contour of the final article and being slightly larger than the blank, subjecting said blank to a nitriding atmosphere for a selected temperature and time cycle, employing the growth of said blank to exert pressure against said fixture, said pressure being effective to hold the contour of said blank and prevent the occurrence therein of distortion, and removing said blank from said fixture.

---

2,390,418
**BUILDING STRUCTURE**
John H. Brown, Houston, Tex., assignor of one-fourth to Charles J. Angell, Monroe, La.
Application August 10, 1944, Serial No. 548,858
7 Claims. (Cl. 108—1)

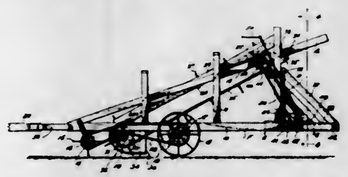
1. In a building, the combination of, a plurality of semi-circular arch type master ribs comprising inner and outer parallel sections, separator means disposed in spaced relation along and interposed between said sections, means securing said sections to said separator means, purlins extending longitudinally of said building and being of a width corresponding to the distance between said



sections, means securing said purlins to said separator means, and semi-circular intermediate ribs disposed between said master ribs in spaced parallel relation thereto; the depth of said intermediate ribs corresponding to the depth of said outer sections.

---

2,390,419
**PEANUT PLANT HARVESTER**
Walter T. Brown, William Lee Brown, and Leonard C. Brown, Lumpkin, Ga., assignors of one-fourth to Johnston M. Deason, Lumpkin, Ga.
Application December 1, 1943, Serial No. 512,504
3 Claims. (Cl. 198—13)

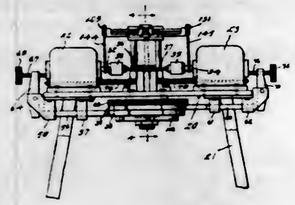


1. In a harvesting machine of the character described, the combination comprising a wheel supported frame, an elevator supported on the frame and extending at an inclination upwardly and rearwardly, said elevator including an endless conveyor, means for transmitting driving power to the conveyor, a horizontally disposed platform conveyor supported by the frame rearwardly of the upper end of the first conveyor and at an elevation beneath the same to receive material therefrom, said platform conveyor including a shaft and a gear on the shaft, an idler gear supported for rotation adjacent to the first mentioned gear, means for transmitting driving power from the first conveyor to the idler gear, and means operable from a point remote from said gears for establishing an operative coupling between the gears.

---

2,390,420
**DRILLING MACHINE**
Wilbur B. Burke, Cleveland, Ohio
Application February 1, 1944, Serial No. 520,649
6 Claims. (Cl. 77—21)

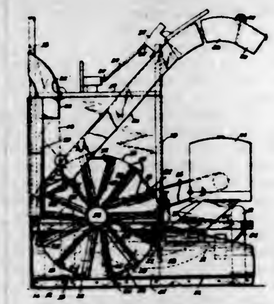
1. A drilling machine comprising an opposed pair of drilling members, means for reciprocating said members, a pair of workpiece clamping members, a slotted support above said clamping members for dependingly supporting a workpiece with a portion of the latter between said clamping members, and means operated in timed re-



lation with respect to the reciprocation of said drilling members for clamping a workpiece between said support and said clamping members.

---

2,390,421
**MACHINE FOR REMOVING SNOW**
Edwin B. Cadwell, Saugerties, N. Y.; Helen Cadwell executrix of said Edwin B. Cadwell, deceased
Application February 25, 1942, Serial No. 432,274
21 Claims. (Cl. 37—43)



13. In a machine for removing material in situ, such as snow lying in a bank on the ground, the combination with a vehicle, of a revolving projector carried thereby and adapted to slice the material from a bank, means to revolve the projector, a blade disposed proximate the rear of the projector and adapted to lift and convey material from the ground forwardly into the rear of the revolving projector, a shoe and means to support the blade from the shoe at a predetermined elevation above the ground.

---

2,390,422
**METHOD OF PRODUCING A COATING COMPOSITION**
Clarence M. Carson, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application March 20, 1942, Serial No. 435,474
3 Claims. (Cl. 260—734)

1. The process of producing a coating composition which comprises oxidising the surface of a pellet of finely divided particles of a cyclized rubber, milling the oxidised pellet and an anti-oxidant and dispersing the milled product in a solvent.



2,390,423
**BAG CLOSURE**
Jack W. Carter, Winter Haven, Fla., assignor to Fulton Bag and Cotton Mills, Atlanta, Ga.
Application December 24, 1942, Serial No. 470,659
6 Claims. (Cl. 150—11)



1. A drawcord closure for the mouth of an open mesh bag comprising a single length of cord interwoven in said bag with portions of the cord intermediate its ends extending in opposite directions and including overlying portions on the inner and outer surfaces of the bag wall and in staggered relation, said overlying portions being alternately interconnected in a manner such, that a pull applied to opposite ends of the cord will draw the open mouth of the bag to a closed position and effect a frictional lock of the cord in tightened bag closing position without tying and securing the ends of the cord.

---

2,390,424
**MIRROR OR REFLECTOR**
William H. Colbert, Brackenridge, Pa., assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 20, 1943, Serial No. 479,929
1 Claim. (Cl. 88—105)



A mirror for use in an airplane comprising a glass support and a chromium film on the front surface of said glass support and forming a first surface mirror, said chromium film being partially transparent and having a reflectivity of 40 percent to 60 percent, and said glass support being opaque and absorbing the light passing through said chromium film.

---

2,390,425
**CONTROL APPARATUS**
Stephen Crum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 14, 1942, Serial No. 461,967
2 Claims. (Cl. 121—40)

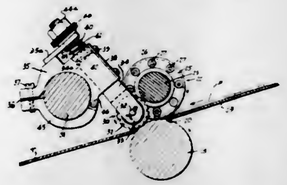


1. A valve for controlling fluid flow, comprising in combination, a valve body, an inlet port, a pair of control ports in communication with said inlet port, a pair of spring loaded check valves intermediate said inlet and said control ports, a pair of outlet ports in communication with said inlet and said control ports, a control valve intermediate said inlet and each outlet port and

controlling the direction of flow through said control ports, said control valves providing means including said check valves for normally resisting flow through the device in either direction, said means also including a solenoid actuating member in fluid tight association with said valve body and operably associated with each control valve, and spring means for returning and maintaining said control valves in normal position.

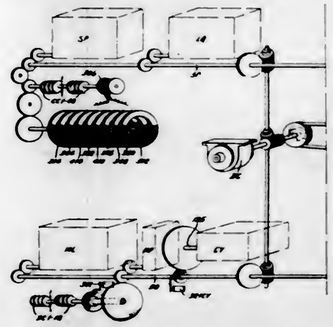
---

**2,390,426**
**MACHINE FOR PERFORATING, SLITTING, OR SCORING SHEETS**
**John A. Davidson, Brooklyn, N. Y.**
**Application November 18, 1944, Serial No. 564,022**
**13 Claims. (Cl. 164—99)**



1. A machine of the character described, comprising a frame structure, a horizontally disposed driver shaft rotatably mounted in said structure, means for rotating said shaft, a flat feed plate fixed to said structure at an angle with respect to a horizontal plane and disposed adjacent said shaft, said plate having a plurality of spaced apart projecting portions provided with bevelled ends facing said driver shaft and in close proximity thereto, a second shaft disposed parallel to said driver shaft and rotatably mounted in said structure, pressure rollers adjustably mounted in spaced relation on said second shaft to rotate therewith, said rollers each having a member, said members being disposed respectively between adjacent projecting portions of said projecting portions and contacting said driver shaft whereby rotative motion is transmitted from said driver shaft to said rollers, said members being adapted to frictionally engage a sheet of paper to be worked upon for passage between said members and said driver shaft during their rotation, means for removably securing said members to said rollers, bearing means on said structure, a third shaft non-rotatively mounted in said bearing means, a device fixed to said third shaft, said device including a rotatable work wheel disposed in proximity to said driver shaft, adjustable means in said bearing means for resiliently maintaining engagement between said driver shaft and said members; pusher means for moving said sheet forward, said pusher means comprising a rotatable member secured to said second shaft, an element projecting from said rotatable member and means urging said element outwardly; and means for controlling the feeding of said sheet to be worked on by said work wheel, said controlling means comprising a member fixed to said driver shaft to rotate therewith and being provided with spaced notches, an arm fulcrumed on said plate, said arm being provided at one end with a sheet engaging element and adjacent its other end with a spring secured to said plate and an extension adapted to be urged into one of said notches by said spring during rotation of said notched member whereby said sheet engaging element may be disengaged from the sheet, and covers for the other of said notches.

**2,390,427**
**RECORD CONTROLLED COMPUTING MACHINE**
**Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application April 12, 1944, Serial No. 530,588**
**9 Claims. (Cl. 235—61.6)**

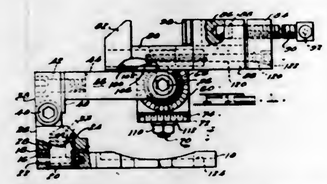


1. A record controlled calculating machine which is adapted to compute factor data derived from groups of detail cards by different types of computations determined by interspersed master cards which bear distinctive designations for determining the type of computation to be performed, means for sensing the master cards to determine the computation selecting designation it bears, a plurality of master computation control means for conditioning the machine to effect one type of computation or for reconditioning the machine to effect another type of computation, each of said master computation control means including means controlled thereby to retain it effective during the computation effected under control of each of the following detail cards, selecting means controlled by said sensing means to render the related master computation control means effective for operation according to the computation selecting designation sensed on the master card, means controlled by said selecting means to render the selected master computation control means effective for operation for each of the detail cards following the master card which selects the computation, and means responsive to the sensing of a master card following the last detail card of a group for rendering the last named means ineffective when said master card bears a designation different from the preceding one, whereby the effective master computation control means is rendered ineffective.

---

**2,390,428**
**UNIVERSAL VISE**
**Josef A. Disse, Detroit, Mich.**
**Application October 12, 1942, Serial No. 461,822**
**1 Claim. (Cl. 81—41)**

In combination, a support, a bolt rotatably received by said support, a head on said bolt disposed with its axis perpendicular to the axis of said bolt, a vise having a base provided with an opening extending longitudinally thereof and a slot leading from said opening to the bottom face of said vise base, said head of said bolt being slidably received in said opening in said vise base and the body of said bolt being slidable longitudinally of said slot, a jaw member slidably received on said vise base, screw means cooperating between said vise base and said jaw member for moving said jaw member on said vise



base, and screw means cooperating between said vise base and said head of said bolt for moving said vise bodily in the direction of the axis of said head of said bolt.

---

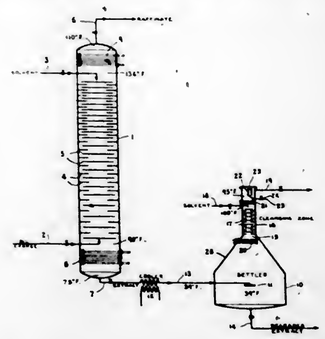
**2,390,429**
**PROCESSES OF EXTRACTING CONSTITUENTS OF MINERAL OILS**
**Eddie M. Dons and Oswald G. Mauro, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware**
**Application June 12, 1943, Serial No. 490,696**
**1 Claim. (Cl. 196—13)**



In the art of using selective solvents to extract naphthenic constituents of waxy mineral oils, the process of recovering selected paraffinic components from the extract solutions which comprises continually transmitting an extract solution from an extractor to a cooled settling chamber, discharging relatively heavy extract solution from the lower portion of said cooled settling chamber, discharging a rising mass of waxy paraffinic raffinate solution from the upper portion of said cooled settling chamber to a much smaller cleansing zone immediately above and in free communication with said settling chamber, heating said rising mass of waxy paraffinic raffinate solution at the upper portion of said settling chamber to provide a relatively high temperature in said smaller cleansing zone, and introducing a stream of relatively heavy selective solvent into said rising mass of heated paraffinic raffinate in the cleansing zone, so as to selectively dissolve and return selected constituents of the outgoing paraffinic raffinate to said settling chamber.

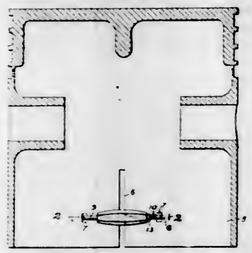


**2,390,430**
**APPARATUS FOR EXTRACTING CONSTITUENTS OF MINERAL OILS**
**Eddie M. Dons and Oswald G. Mauro, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware**
**Application June 12, 1943, Serial No. 490,697**
**1 Claim. (Cl. 196—46)**



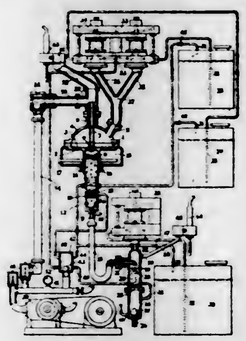
In an apparatus for extracting constituents of waxy lubricating oils, including a counterflow extractor wherein a selective solvent is employed to separate a relatively heavy naphthenic extract solution from a lighter waxy, paraffinic raffinate solution, said extractor having an outlet for the separated extract solution, the means for recovering a second waxy paraffinic raffinate from said extract solution which comprises a large settling chamber wherein all of the waxy paraffinic components of the second raffinate are selectively separated from the extract solution, means for cooling said extract solution to produce a relatively low temperature condition in the settling chamber, said settling chamber having an inlet communicating with said outlet for the separated extract solution, the lower portion of said settling chamber having an outlet for relatively heavy extract solution, the upper portion of said settling chamber being provided with an outlet for a rising stream of outgoing waxy paraffinic raffinate solution from the settling operation, a heater located near the top of said settling chamber to heat the outgoing waxy stream, said settling chamber being large enough to maintain a large body of the extract solution in a quiescent condition for a period sufficient to selectively separate all of the paraffinic components of said second waxy raffinate from the relatively heavy extract solution in said settling chamber, and means for dissolving and returning degrading components of said outgoing raffinate solution to said large settling chamber, said means including a much smaller counterflow cleansing compartment extending upwardly from the outlet at the upper portion of said settling chamber to receive the rising paraffinic raffinate solution and a descending stream of cleansing solvent, said extended compartment having an inlet for the cleansing solvent and an outlet for the second raffinate solution, and the outlet at the upper portion of said settling chamber being in direct communication with the bottom of said upwardly extended cleansing compartment to provide for upward discharge of the second paraffinic raffinate solution and downward return of said degrading components.

2,390,431
**PISTON SKIRT EXPANDER**
Arthur W. Engberg, Madison, Wis.
Application August 4, 1944, Serial No. 548,005
2 Claims. (Cl. 309—12)



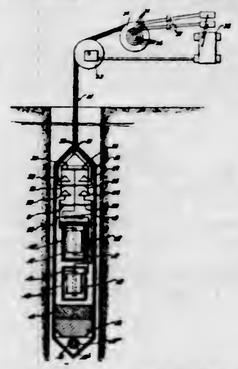
1. An expanding device for use in expanding the split skirt of a piston, comprising a turnbuckle having bores extending inwardly from the ends thereof, one of said bores being formed with screw threads, a threaded pin disposed within the threaded bore, a pin loosely mounted within the bore at the opposite end of the turnbuckle, said pins having sharpened outer ends adapted to bite into the metal of which the piston is constructed, at opposite sides of the split formed in the skirt thereof, whereby the skirt is expanded when the turnbuckle is rotated in one direction.

2,390,432
**PREPARATION OF CHLORINE DIOXIDE AND NITROGEN OXIDES**
Cyril Harry Evans, Snaresbrook, London E. 11, England
Application September 8, 1941, Serial No. 410,077
In Great Britain May 6, 1940
8 Claims. (Cl. 23—283)



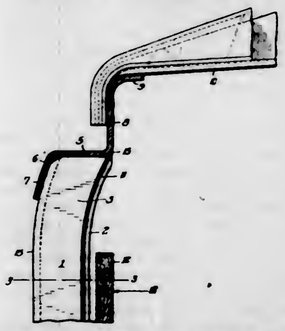
1. Apparatus for the preparation of chlorine dioxide by contact of a solution of a chlorate with an acid reactant, comprising a reactor surface disposed substantially horizontally and having spaced elevations thereon defining an extended course for the flow of a liquid, a spacious enclosure for the said surface, the said enclosure having an inlet opening for the admission of liquid reactants and an inert gas and an outlet opening for the discharge of gaseous reaction products arising from the reaction mixture upon the reactor surface, regulable feed devices for supplying liquid reactants in admixture by way of the inlet opening to one end of the said course and an outlet at the discharge end of the extended course to discharge the waste liquid reactants from the surface.

2,390,433
**WELL SURVEY METHOD AND APPARATUS**
Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Continuation of application Serial No. 325,880, March 25, 1940. This application July 29, 1944, Serial No. 547,153
17 Claims. (Cl. 250—83.6)



1. A method of geophysical prospecting that comprises at various levels from a well bore or other opening in the earth bombarding the adjacent strata with neutrons, simultaneously at substantially the same level separately measuring the gamma rays and neutrons returning to the well bore from the strata, simultaneously determining the depths at which said measurements are made and recording said measurements in correlation with said determinations of depth.

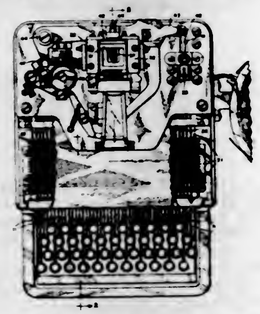
2,390,434
**RAILWAY CAR STRUCTURE**
Garth G. Gilpin, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application September 15, 1944, Serial No. 554,191
3 Claims. (Cl. 105—404)



1. In railway freight car construction, side posts, the upper ends of which are inwardly deflected, a lining positioned inside of said posts below the deflected portions thereof, a side plate having a flange depending at the same deflection as the upper ends of said posts and within the outer vertical planes thereof, and a substantially vertical arm substantially in the vertical plane of the inner upper end of the deflected portions of said posts.

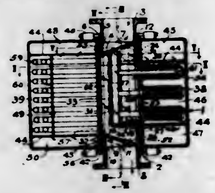


2,390,435
**PERFORATING MACHINE**
Erwin A. Gubisch, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 1, 1944, Serial No. 524,605
9 Claims. (Cl. 164—113)



1. In combination in a perforating machine, a plurality of punches, a plurality of punch controllers, one individual to each of said punches, a keyboard selector mechanism for selectively setting said controllers in various combinations, means for moving said selected controllers to cause said punches to perforate a tape, a separate spring urged pawl individual to each of said controllers, a lug extending from each of said controllers whereby when such controllers are in their selected positions said spring urged pawl will assume a position beneath said lug to block said controller in its selected position, and means to release said spring urged pawls from blocking engagement with said lug to allow said controllers to assume their unselected position.

2,390,436
**HEAT EXCHANGER**
Addison Y. Gunter, Larchmont, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application December 29, 1943, Serial No. 516,003
3 Claims. (Cl. 257—241)

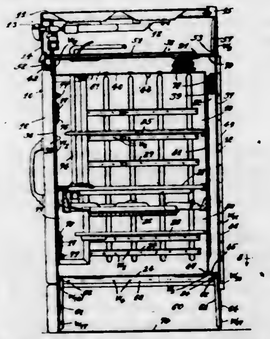


1. A combination heat exchanger for indirect heat exchange relation of a common fluid with two other separate fluids comprising two opposed tube-shell heat exchangers, the shells thereof being separated one from the other, each of said shells being for one of said separate fluids and said tubes being for said common fluid; and a single unitary header for both of said exchangers and disposed therebetween, said header including seven separated chambers, a pair of said seven chambers provided each with a port and opening each to one of said shells serving one as an inlet and the other as an outlet therefor, another pair of said seven chambers provided each with a port and opening each to the other of said shells serving one as an inlet and the other as an outlet therefor, the remaining three of said seven chambers including a chamber common to the tubes of both exchangers and communicating with the tubes of one of said exchangers for receiving said common fluid therefrom and communicating with the tubes of the other of said exchangers for supplying said common fluid thereto, and a pair of chambers, one having an outlet port and communicating with and serving as an outlet for the tubes receiving said common fluid from said common chamber and the other having an inlet port and communicating with and serving as an inlet for the tubes from which said common chamber receives said common fluid, whereby a single tube fluid will be in indirect heat exchange relation with each of said separate shell fluids.

2,390,437
**PRODUCTION OF BRUSHES AND THE LIKE**
Ralph F. Hayes, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 18, 1944, Serial No. 545,544
4 Claims. (Cl. 300—21)

1. A method for bristling and stapling articles made from polymerized vinyl aromatic compounds and copolymers thereof which comprises heating the article to a temperature of from 0 to 50° C. above the critical temperature of the polymerized vinyl aromatic compound and inserting the bristles and staples in the article while maintaining the said article in the said temperature range.

2,390,438
**RANGE CONSTRUCTION**
Stanley H. Hobson and Harold H. Ring, Rockford, Ill., assignors to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application March 2, 1942, Serial No. 432,976
11 Claims. (Cl. 220—10)



1. In an insulated cabinet construction, the combination of a bottom wall and hollow top,

back, and opposed side walls, the interior of the top wall having open communication at the rear thereof with the interior of the back wall at the top thereof, and the outer wall of said structure having an opening provided therein at the juncture of said top and back walls adapted for the introduction of a nozzle to discharge insulation material into said hollow top and back walls under air pressure, the outer wall of said hollow top wall having one or more exhaust openings provided therein forwardly spaced from and in remote relation to the nozzle opening, and said hollow back wall having one or more exhaust openings downwardly spaced from and in remote relation to the nozzle opening, and the outer wall of each of said hollow side walls having an opening at the top end thereof adapted for the introduction of a nozzle to discharge insulation material into said hollow side walls under air pressure and said hollow side walls having one or more exhaust openings provided therein remote from the nozzle opening.

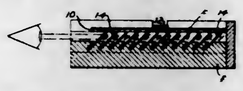
---

**2,390,439**

## OPTICAL RECORD INTERPRETER

**Reynold B. Johnson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application February 2, 1943, Serial No. 474,441**
**9 Claims. (Cl. 88—14)**



1. Apparatus for optically interpreting character designating code marks disposed in columns and rows of index positions of a record, comprising a series of parallel reflecting elements, arranged one behind another, a pattern sheet bearing columns and rows of character pattern areas corresponding to the index positions of the record and selectively exposable under control of the marks in said positions, means supporting the elements in operative relation to one another and in such operative relation to the pattern sheet that each element is located to receive exposure of the areas of one said row of areas and to reflect images of such exposed areas in the same direction as images of other areas are reflected by the other elements, and at least those elements in front of the rear element being partially transparent to enable any image, including one reflected by an element behind the leading element, to be exposed to a viewing position in front of all the elements.

---

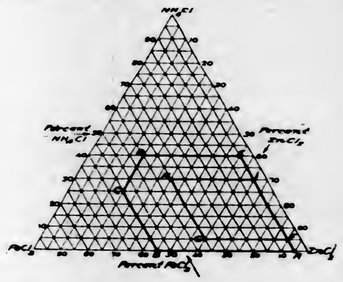
**2,390,440**

## LEAD COATING

**Eugene Joseph Kalil, Huntington, W. Va., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware**

**Application May 29, 1942, Serial No. 445,399**
**8 Claims. (Cl. 117—52)**

8. The method of lead coating articles made of nickel and nickel alloys without cleaning and removal of the hot rolled oxide surface, comprising pretreating the uncleaned articles in a molten flux bath containing about 8% to 35% of iron salt from the group consisting of ferric chloride and ferric fluoride and 35% to 90% zinc chloride, the recited iron and zinc compounds constituting not less than 60% of the total composition of the flux, said bath being heated to a temperature range of between 670° to 700° F., thereafter immersing the pretreated articles in molten lead, and withdrawing the articles with a firmly adhering coating of lead covering the same.



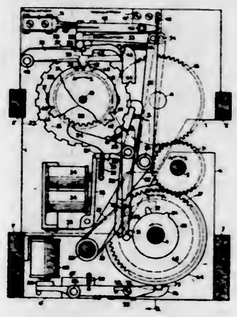
---

**2,390,441**

## ADDING AND SUBTRACTING MECHANISM

**Harold Hall Keen and Thomas Oliver Wright, Letchworth, England, assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application August 9, 1940, Serial No. 351,948**
**In Great Britain August 15, 1939**
**6 Claims. (Cl. 235—61.8)**



1. In combination, denominational orders of register members, gearing to move the members in one direction to add and in the opposite direction to subtract values, a common entry control magnet for governing the extent of such movement of a member in either direction, means to selectively govern the direction in which said gearing moves said members, a circuit for energizing the magnet to cause the related member to receive a carry entry movement from the gearing, switch means in said circuit, a pair of alternatively effective transfer devices operated by the preceding order member to close the switch means, and means controlled by the gearing, in accordance with the direction of movement of the members affected thereby, for selectively rendering one of said devices effective and the other ineffective, whereby one of the devices will be effective during adding operation and the other will be effective during subtracting operation.

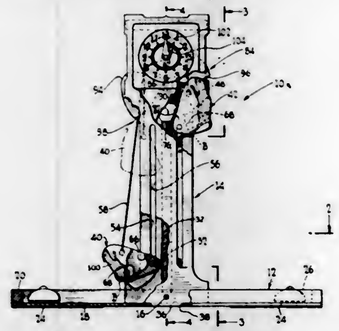


**2,390,442**

## BALL-OPERATED TOY

**Olaf F. Larsen, Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y., a corporation of New York**

**Application December 23, 1944, Serial No. 569,533**
**16 Claims. (Cl. 46—42)**



1. A ball-operated toy comprising a feeding station having one entrance and two discharge points, means to support the station in elevated position, a ball magazine, means to lead balls from said magazine to said feeding station, a ball-propelling mechanism mounted to sweep back and forth through the space occupied by a ball at said station whereby to engage a ball at said station and push the same out of one or the other discharge point, and means operable by a ball descending from either of the discharge points to actuate said ball-propelling mechanism so as to force a ball from the feeding station out of the other discharge point, whereby balls will be forced alternately out of the discharge points.

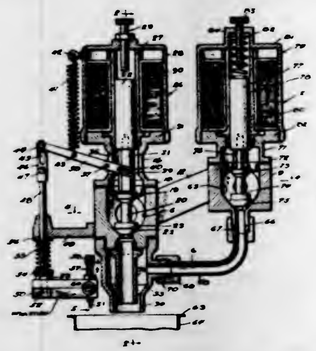
---

**2,390,443**

## APPARATUS FOR FILLING CONTAINERS

**Ronald B. McKinnis, Winter Haven, Fla.**

**Application March 12, 1941, Serial No. 383,044**
**2 Claims. (Cl. 226—68)**



1. An apparatus for filling open containers with a desired amount of liquid comprising a source of the liquid, a stationary nozzle in communication with the source and terminating above the upper end of the container for discharging the liquid downwardly into the container, a valve for controlling flow of liquid from its source to the nozzle, a reciprocating stem serving to open and close the valve, a reciprocating support member engageable with the upper rim of the container, a gauging device carried by the support and projecting downwardly therefrom a predetermined distance into the container when the support is in engagement with the rim of the container, said gauging device adapted to contact the rising surface of the liquid for gauging the desired level of liquid in the container, a rocker arm connecting the support member and valve stem and actuated by said stem to respectively lower and raise the support with respect to the container with opening and closing movement of the valve stem.

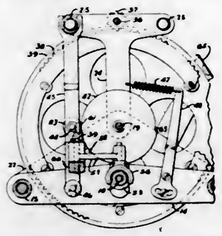
---

**2,390,444**

## COUNTING MECHANISM

**Paul H. Mefferd, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey**

**Application November 7, 1942, Serial No. 464,842**
**5 Claims. (Cl. 235—136)**



1. In a counting device having a plurality of indicia-bearing members, in combination, a transfer mechanism for indexing one of said members in accordance with a count accumulated on the next lower member, said mechanism comprising a gear train connecting said members, an oscillatable frame carrying part of said gear train, means for oscillating said frame in synchronism with the rotation of one of said members, the oscillation of said frame cooperating with uniform motion of said gear train to produce intermittent indexing motion of the higher order member, and means for rendering said oscillating means inoperative during high speed operation of said device.

---

**2,390,445**

## OILTIGHT JOINT

**Jean Mercier, New York, N. Y.**

**Application August 15, 1942, Serial No. 454,943**
**3 Claims. (Cl. 285—163)**



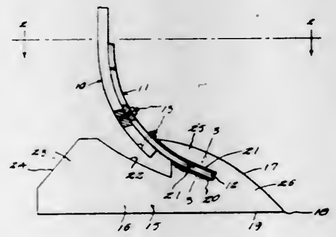
1. Oil-tight joint for sealing two cylindrical surfaces, which comprises two annular grooves, one in each of said surfaces and an annular rubber compound packing member inside both said grooves, said packing members being when first applied too small with respect to said grooves and subjected to insufficient pressure to insure tightness and being capable of expanding when in contact with oil.

**2,390,446**
**VULCANIZATES OF FURYLETHYLENE POLYMERS**
**Charles J. Mighton, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application October 14, 1942, Serial No. 461,995**
**8 Claims. (Cl. 260—36)**

4. A sulfur vulcanized composition comprising a furylethylene polymer plasticized with a sebacic ester and reinforced with carbon black, said furylethylene polymer being of the class consisting of polyfurylethylene, and copolymers of furylethylene and a vinylidene compound having only one ethylenic linkage, said copolymer comprising at least 50% furylethylene.

---

**2,390,447**
**CULTIVATOR PLOW**
**Raymond M. Miller, Estacada, Oreg.**
**Application August 12, 1944, Serial No. 549,191**
**2 Claims. (Cl. 97—206)**

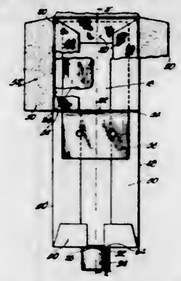


1. A cultivator plow comprising a plow formed of a forwardly and downwardly inclined point, and a combined guiding, dirt dividing and dirt loosening blade secured to said point, said blade including a vertically disposed flat body having a horizontal lower edge, said body being formed with an elongated slot in the upper portion thereof extending downwardly and forwardly within which said point is positioned, and means securing said point in said slot, said body including a divider extending lengthwise of and upwardly from said point to thereby effect even division of the loosened dirt on opposite sides of said plow member and also including a substantial body portion extending below said point, said body also having a cut-out in the upper edge thereof within which the supporting shank for said point is adapted to loosely extend.

---

**2,390,448**
**DISPENSER**
**William C. Moeller, Kansas City, Mo., assignor to A. F. Parmalee, doing business as United States Safety Service Co., Kansas City, Mo.**
**Application May 25, 1944, Serial No. 537,229**
**6 Claims. (Cl. 206—56)**

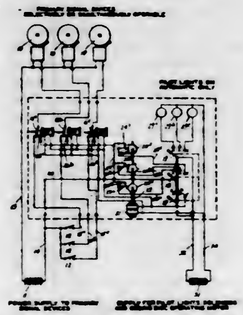
1. A dispenser of the character described comprising in combination a pair of telescoped sections providing a magazine for articles to be dispensed; registering notches in adjacent ends of the sections; and unitary means for feeding the articles from the magazine through portions of the said notches, said means having an operating knob slidably secured in the registered notches and movable with the feeding means



from one of the notches when the sections are parted.

---

**2,390,449**
**ALARM SYSTEM**
**Arvid N. Montgomery, Owensville, Ind.**
**Application June 29, 1942, Serial No. 448,941**
**6 Claims. (Cl. 177—380)**



3. An alarm system including an electric signal device, an alarm circuit for said signal device comprising a normally open switch in said alarm circuit, and a normally open, coding disc operated, switch also in said alarm circuit, a coding disc operably associated with said coding disc switch for closing same and permitting opening of the disc operable switch, a motor for driving said disc to determine the periodicity of the signal actuation, a primary circuit for the motor, a manually operable master switch in the primary circuit, electrically actuated means for closing the first mentioned switch, an electric circuit for said means and in shunt with the primary circuit and controlled by said master switch, and another switch in series with the coding disc switch and simultaneously movable with the master switch.

---

**2,390,450**
**LITHIUM BASE GREASES**
**John D. Morgan, South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania**
**No Drawing. Application January 22, 1942, Serial No. 427,724**
**10 Claims. (Cl. 252—36)**

1. A lubricating composition comprised principally of a lubricating oil, from about 4% to about 12% by weight of a lithium soap, from about 0.5 to 3% by weight of an aluminum soap,

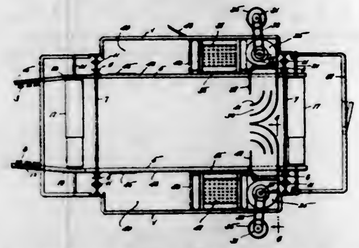


and from about 0.5 to 2.5% by weight of a rubber as an agent for preventing the bleeding of the grease composition.

7. A lubricant comprised principally of a lubricating oil and containing from about 4% to about 12% by weight of a lithium soap of castor oil and a relatively small but sufficient proportion of lithium naphthenate as a stabilizer for the oil and soap.

---

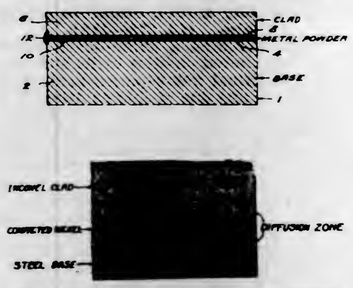
**2,390,451**
**TENTER DRIER**
**Frank B. Merrill, North Adams, Mass., assignor to The James Hunter Machine Company, North Adams, Mass., a corporation of Massachusetts**
**Application June 27, 1942, Serial No. 448,749**
**20 Claims. (Cl. 26—60)**



1. A tenter drier for fabric having in combination a housing, tenter chains carrying the fabric through the housing in reversely traveling horizontal runs, chain guides movable widthwise of the housing, baffles in connection with the chain guides closing both lateral sides of alternate intervals between the successive runs of fabric while intermediate intervals are left open, heaters located in the space between the chain tracks and the lateral sides of the housing, and air-propelling means located in such space blowing air transversely of the fabric into the said alternate intervals and through the fabric and the intermediate intervals and the heaters in the order named, this air then reentering the air-propelling means for recirculation.

---

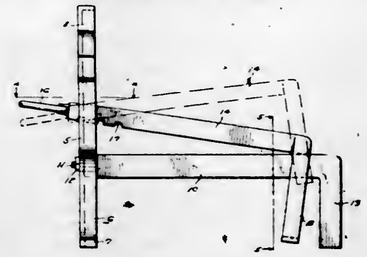
**2,390,452**
**METHOD OF PRODUCING COMPOSITE METAL STOCK**
**William Alvin Mudge, New York, N. Y., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware**
**Application January 19, 1943, Serial No. 472,838**
**In Canada November 26, 1942**
**6 Claims. (Cl. 29—189)**




1. The process of producing a composite metal having a steel foundation layer and a cladding layer of nickel-chromium-iron alloy firmly bonded thereto, which comprises cleaning a surface of the nickel-chromium-iron alloy layer to remove any oxygen or other weld-preventing film, preparing a paint of nickel flake powder in a kerosene vehicle, applying a coating of the paint on the clean surface of the nickel-chromium-iron alloy layer, placing the coated surface of the cladding layer against a clean surface of the steel foundation layer to form a pack, and subjecting the pack to heat and pressure to produce a bond between the foundation and cladding layers.

---

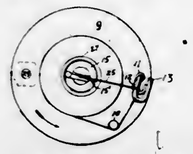
**2,390,453**
**FIREPLACE ANDIRON**
**William Murdock, Chicago, Ill.**
**Application November 9, 1944, Serial No. 562,672**
**2 Claims. (Cl. 126—298)**



1. An andiron structure comprising a vertical front member, a rearwardly disposed horizontal leg having a supporting foot, a fuel supporting shaker bar mounted to be moved with respect to said vertical front member and adapted to be adjusted back and forth to various positions on said front by sliding through a slot provided in the vertical front member and provided with guide means at its rear end and a removable handle at its front end, said guide means consisting of a depending slotted arm at the rear end of the shaker bar through which the horizontal leg is disposed.

---

**2,390,454**
**FLIER FOR WRAPPING YARN AROUND WIRE**
**Charles J. Murphy, Fort Wayne, Ind., assignor to Essex Wire Corporation, Fort Wayne, Ind., a corporation of Michigan**
**Application June 26, 1943, Serial No. 492,372**
**1 Claim. (Cl. 57—18)**
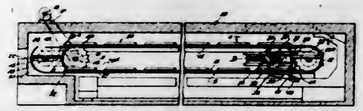


A flier for wrapping yarn around a wire consisting of a rotatable hollow spindle provided with a nose piece on its upper end and a bed-plate rotatable therewith, a cop-post concentrically mounted on the spindle loosely to permit free axial and angular movement relative thereto provided at its lower end with a friction disk, a cushion encompassing the spindle interposed between the bed-plate and disk upon which the assembled cop post, disk and a yarn cop disposed

on the cop post rests, and is frictionally engaged thereby, an upright yarn-receiving post on said bed-plate the axis of which is parallel with that of the spindle, an upright guide-supporting post, said yarn receiving and guide-supporting posts being located adjacent each other near the perimeter of said bed-plate, and guides on said supporting post, the arrangement being such as to direct travel of yarn withdrawn from said cop as it is fed to a wire passing up through the spindle and nose piece to be wound thereon.

---

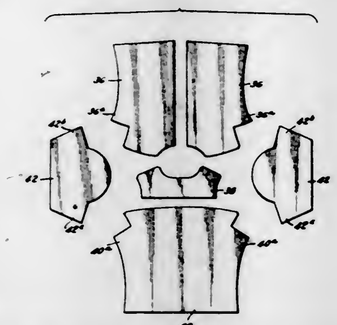
**2,390,455**
**BAKE OVEN CONVEYER**
**John R. Naibach, Oak Park, Ill., assignor to Middleby-Marshall Oven Company, Chicago, Ill., a corporation of Illinois**
**Application October 26, 1944, Serial No. 560,467**
**6 Claims. (Cl. 198—138)**



1. In a tray conveyer mechanism provided with upper and lower tracks, arcuate tracks disposed between said upper and lower tracks and spaced from the latter, track switches movable into said spaces to provide extensions of said arcuate tracks for guiding tray portions across said spaces, means for moving said switches to non-switching position, and means on said switches cooperable with other portions of the trays for moving said switches out of switching position upon failure of said means to move said switches to non-switching position as said other tray portions approach said spaces.

---

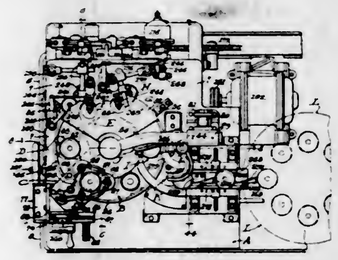
**2,390,456**
**GARMENT CONSTRUCTION**
**Sol Nehf, Chicago, Ill.**
**Application October 15, 1943, Serial No. 506,445**
**1 Claim. (Cl. 2—74)**



In a garment constructed from a plurality of cloth blanks to be sewn together to form the garment, said blanks comprising a pair of similarly shaped front sections, a back yoke and a back portion, said front sections, back yoke and back portion when sewn together forming arm openings at the sides of the garment and adjacent its upper end, said back portion having a pair of angular notches adjacent its upper edge on opposite sides thereof, said front sections each also having a similarly shaped angular notch upon an outer edge thereof, a pair of similarly shaped sleeve sections, said sleeve sections each having an upper edge terminating in outwardly extending angular portions, the angular portions of the sleeve sections adapted to fit into the notches of the back portion and the front sections, so that the sleeve section when sewn into the arm openings of the garment have a fullness to accommodate upward, forward, and rearward arm movement without strain of the garment material at other localities upon the body of the wearer.

---

**2,390,457**
**APPARATUS FOR SPRAYING CONTAINER PARTS**
**Paul E. Pearson and Alfred Treff, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application May 7, 1942, Serial No. 442,090**
**40 Claims. (Cl. 91—45)**



1. In a machine of the character described wherein is provided a cone top receiving station, a cone top spray coating station and a spray coated cone top discharging station, a cone top carrier, means for presenting the carrier successively at said stations, means for applying cone tops to the carrier at the receiving station, a spray means mounted at the spray coating station, means for lifting and lowering and rotating said carrier relative to said spray means, and means at the discharging station for discharging spray coated cone tops from said carrier.

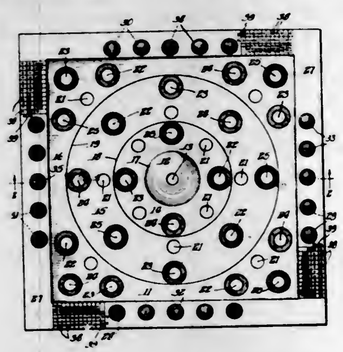
---

**2,390,458**
**GAME**
**Hayes N. Pedersen, Racine, Wis.**
**Application May 3, 1944, Serial No. 533,891**
**1 Claim. (Cl. 273—110)**

In a game including a game-board having a number of distributed cavities in its surface and companion spherical game-pieces each adapted to be received in any one of said cavities by manual manipulation of said board, the latter having a marginal ledge adjacent to, higher than, and outstanding from said board and having a plurality of spaced-apart apertures therethrough each of smaller size than and each adapted to hold one of said game-pieces, the novel improvement being that said ledge is divided into a plurality of sections corresponding to the number of possible players, each player having the same number of said apertures, each player having a plurality of said game-pieces of like color but different from those of all other players, some of said cavities of said game-board being



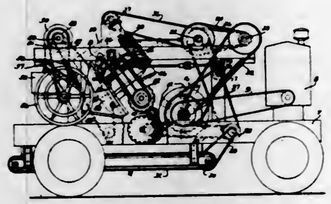
designated by the color of the game-pieces of each player whereby any player while grasping



said ledge may release his game-pieces individually by engaging it from below the ledge to feed it on to the game-board.

---

**2,390,459**
**APPARATUS FOR DEBARKING AND CLEANING LOGS**
**Michael J. Power, Nekoosa, Wis.**
**Application August 1, 1940, Serial No. 349,087**
**21 Claims. (Cl. 144—208)**

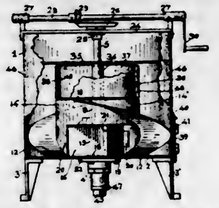


1. In a device of the character described, the combination with a tool, of means for rotating and feeding work past said tool, said means comprising spaced rolls provided with projecting work engaging teeth, at least one of said rolls being axially inclined to the path of work movement and having separate axially spaced sections on which said teeth are carried, the teeth of the section last engaged by the work being beveled at their delivery ends.

---

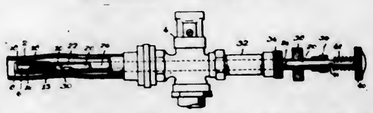
**2,390,460**
**DOUBLE-ACTING KNEADER IMPROVEMENT**
**Eric A. F. Presser, East Chicago, Ind.**
**Application January 21, 1944, Serial No. 519,101**
**4 Claims. (Cl. 259—97)**

1. A kneading unit comprising a container, an operating shaft rotatable therein, a kneading member which has a plurality of radially opposed pairs of segments the segments of each pair being oppositely inclined and in radial relation to the shaft, a continuous dividing wall between the segments, stationary baffles disposed radially to said shaft, stationary ring sections in vertical alignment with the continuous dividing wall of the kneading unit said dividing wall being concentric with the shaft, means for pivotally supporting the ring sections on such stationary baffles, and means for actuating the shaft to drive or rotate the kneading member.



---

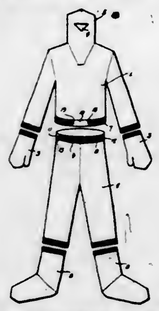
**2,390,461**
**BLOCKADE DEVICE**
**Michael Racz, East Chicago, Ind.**
**Application March 20, 1944, Serial No. 527,299**
**19 Claims. (Cl. 138—89)**



11. In a stopper device, a plug mechanism comprising a rod carrying spaced abutments, at least one of which is threaded on the rod, a resilient plug disposed between said abutments for compression therebetween, a member interlocked with said rod, means for maintaining said member in interlocked relationship with said rod comprising a tubular member sleeved over the first-mentioned member and adapted for interlocking engagement with one of said abutments, said tubular member being retractible from said interlocking engagement, whereby said first-mentioned member may be disengaged from said rod, and means for rotating at least one of said members relative to the other thereof.

---

**2,390,462**
**FABRIC CONSTRUCTION**
**Gordon W. Rosenberg, Elkins Park, Pa.**
**Application February 25, 1942, Serial No. 432,338**
**2 Claims. (Cl. 2—70)**
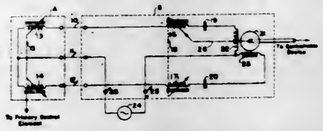


1. A garment construction comprising at least two separable sections adapted to envelope adjacent parts of a wearer's body, said sections having complementary edge portions adapted for disposition one within the other, a semi-rigid band on each of said edge portions for detach-

ably securing said sections together by foldably interlocking said portions, and a flap on at least one of said sections in predetermined spaced relation to the band thereon and adapted to retain the folded portions in place, at least a portion of the interlocking edge portions being formed of material which is elastic transversely of the circumferential joint, whereby a tighter seal is imparted to the joint.

---

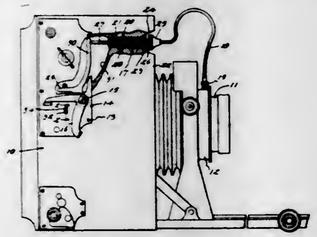
**2,390,463**
**ELECTRICAL CONTROL SYSTEM**
**Herbert C. Roters, Roslyn, N. Y., assignor to Fairchild Aviation Corporation, a corporation of New York**
**Application January 13, 1944, Serial No. 518,660**
**6 Claims. (Cl. 172—239)**



1. An electrical control system adapted to control a secondary controllable device comprising, a control station including a pair of primary adjustable reactors connected to be adjusted in opposite senses in accordance with variations in a primary control condition, a controlled station including a pair of secondary adjustable reactors, a control-signal translating path between said stations, periodic current supply terminals for said system, a pair of capacitors, each of said primary reactors being individually connected in circuit with one of said secondary reactors and one of said capacitors to form a pair of resonant circuits, and a normally balanced polyphase phase-responsive device at said controlled station connected to be energized from said supply terminals and unbalanced in response to departures from resonance of said resonant circuits, due to adjustments of said primary reactors, for adjusting said secondary reactors in opposite senses to restore its balance and for actuating said secondary controllable device.

---

**2,390,464**
**BUILT-IN LENS CAPPING MECHANISM**
**Walter O. Runcie, Lima, Peru**
**Application November 18, 1944, Serial No. 564,099**
**3 Claims. (Cl. 95—53)**



1. In a camera having a lens shutter release mechanism and a focal plane shutter release mechanism, a flexible operator for said lens shutter release mechanism, a sheath about said operator and terminating at one end inwardly from the adjacent end of said operator, a guide slidably supporting the extended end of said operator and threadably disposed in a wall of the camera, means removably securing said sheath to said guide a head fixed to the extended end of said operator and slidably engaging said guide, said focal plane shutter release mechanism including a rockable release shaft, an operating lever fixed on said shaft, and a finger also fixed on said shaft and engageable with said head whereby rocking of said shaft will effect operation of said lens shutter release mechanism simultaneously with operation of said focal plane shutter release mechanism.

---

**2,390,465**
**UNDERGARMENT**
**Florence Russo, New York, N. Y.**
**Application August 21, 1942, Serial No. 455,627**
**1 Claim. (Cl. 2—42)**



In an undergarment, a pair of bust pockets, a back portion connected to said pockets, said pockets being each provided with a lateral extremity; a substantially triangularly-shaped front strap portion extending from each of said pockets and being tapered towards its extremity, said strap portion having inclined meeting edges forming the apex thereof, the base of said strap portion being opposite said apex, said apex being located at the lower end of said lateral extremity, one of said inclined edges of said strap portion forming a continuation of said lateral extremity and terminating at said extremity of said strap portion, the other of said inclined edges of said strap portion extending from said apex substantially transversely of said lateral extremity and below one of said bust pockets, the end of said other of said inclined edges and the end of said base below said one of said bust pockets being spaced apart; a slot being provided adjacent one of the strap portions at the spaced-apart ends of said base and said other of said inclined edges thereof, through which the extremity of the other strap portion may be passed at substantially the front of the undergarment.

---

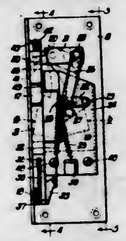
**2,390,466**
**DRAWING INSTRUMENT**
**Walter Harry Schneider, Ridgefield, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey**
**Application March 29, 1941, Serial No. 385,793**
**6 Claims. (Cl. 33—76)**



1. A straight edge comprising, in combination, a member having at least one straight edge and provided at its extreme ends with slots, respectively, flexible normally adhesive strips passing through the slots, respectively, and whereof an end of each is adhered to the upper surface of the member, the other ends of the strips being free, extending away from and beyond the respective ends of the straight edge for adherence to a drawing surface and being readily removed therefrom by peeling the strip back from the drawing surface.



**2,390,467**
**LOCK**
**Mathew Schnur, Chicago, Ill.**
**Application October 9, 1944, Serial No. 557,885**
**9 Claims. (Cl. 292—340)**



1. In a lock of the class described, in combination, an angular bracket adapted to be applied to a door jamb and having an opening at the corner thereof adapted to receive an extended bolt on a door upon movement of the door to closed position, a locking plate pivoted to the inner side of one leg of said bracket and normally held in released position, an actuating member pivoted to the inner side of the other leg of said bracket and normally held in position to cooperate with and be actuated by the extended bolt in its movement to locking position, and means interconnecting said actuating member and asid locking plate for actuating said locking plate into locking engagement with the bolt by the actuation of said actuating member by cooperation of the the extended bolt therewith.

---

**2,390,468**
**PROCESS OF CANNING GREEN VEGETABLES**
**Walter L. Schroder, Hortonville, Wis., and Thomas A. Rogers, deceased, late of Stevens Point, Wis., by Edith H. Rogers, executrix, Stevens Point, Wis.**
**Application December 4, 1944, Serial No. 566,426**
**6 Claims. (Cl. 99—186)**

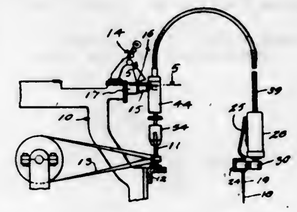


1. In a method of canning green vegetables while preserving their color and firmness of substance by a process involving blanching in hot water and an alkaline treatment at a lower temperature, the steps which comprise blanching the vegetables in hot water prior to the principal alkaline treatment, cooling the vegetables to a temperature above the freezing temperature but not exceeding about 130 degrees F., and applying to the vegetables without substantial further increase in temperature an alkaline solution of an edible alkaline reagent which is very substantially soluble in cold water.

---

**2,390,469**
**PICKER FOR SPINNER FRAMES**
**Andrew B. Shelton, Columbus, Ga.**
**Application February 12, 1945, Serial No. 577,432**
**7 Claims. (Cl. 57—56)**

1. A picker for connection with and operation by a spindle of a spinning frame comprising a flexible shaft, a picking needle at one end of said shaft and a chuck secured to the opposite end of



said shaft and adapted to grip said spindle for rotation and sole support thereby.

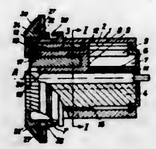
---

**2,390,470**
**PREPARATION OF α,β-DICHLORO-PROPIONITRILE**
**John K. Sumner, Langhorne, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Application December 17, 1941, Serial No. 423,298**
**4 Claims. (Cl. 204—158)**

1. The process for the production of α,β-dichloropropionitrile which comprises reacting anhydrous, oxygen-free chlorine with acrylonitrile in the liquid phase at temperatures of about 0° C. to about 100° C. in the presence of visible light and in the absence of oxygen and water.

---

**2,390,471**
**CYLINDER LOCK**
**Alexander Suter, Basel, Switzerland, assignor to "Spiku"-Trust, Vaduz, Liechtenstein, a corporation of Liechtenstein**
**Application March 28, 1944, Serial No. 528,377**
**In Switzerland January 30, 1943**
**4 Claims. (Cl. 70—385)**



1. A changeable combination cylinder lock comprising, in combination with a housing, a cylinder rotatable in said housing between a locked, an unlocked and a neutral position, said cylinder being formed with a key slot, and a master key and standard keys adapted to operate said lock, said standard keys having a cross section adapted to occupy substantially all of said key slot, a circumferential groove formed in said cylinder, a recess formed in said keys axially coincident with said groove, a locking plate fixedly mounted in said housing and having a portion extending into portions of said groove and said recess and occupying a part of said key slot in the neutral position of said cylinder, and a recess formed in said master key corresponding to said slot-occupying portion.

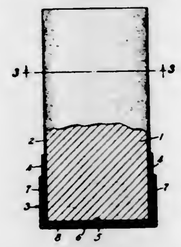
2,390,472
**WALL STRUCTURE**
James S. Swann, Homewood, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application July 17, 1944, Serial No. 545,218
10 Claims. (Cl. 108—5.4)



10. A wall comprising a member formed of aluminum material, steel means secured to a surface thereof to reinforce said member, wall sheets overlapping said surface of said member, and welds securing said wall sheets and steel means together, said member, wall sheets and welds being associated and arranged so as to entirely surround said steel means and thereby protect same against corrosion.

---

2,390,473
**TALCUM POWDER STICK**
Robert W. Teichner, Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y.
Application November 25, 1941, Serial No. 420,390
12 Claims. (Cl. 206—56)

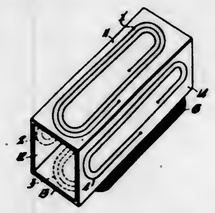


3. A talcum powder stick, comprising a bar of talcum powder compressed into a condition where it is friable without a retaining coating, a coating on the sides of said bar for retaining said powder in bar form, a handle attached to one end of said bar and coating having the major portion of said bar projecting therefrom, and said coating being formed of material that wears away when the opposite end of said bar is rubbed over a skin surface to apply a powder coating thereto.

---

2,390,474
**ELECTRICAL COUPLING NETWORK**
Harry E. Thomas, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application April 30, 1942, Serial No. 441,112. Divided and this application September 9, 1944, Serial No. 553,436
3 Claims. (Cl. 178—44)

1. A variable inductive filter device comprising a first pair of interconnected windings, a second pair of interconnected windings and a third pair of interconnected windings, input means for said first pair of windings, output means for said second pair of windings, means for varying the mutual inductance between the windings of said first pair, means for varying in the same sense simultaneously the mutual inductance between the



windings of said second pair, and means including said third pair of windings for deriving substantially uniform inductive coupling between said first and said second pairs of windings.

---

2,390,475
**ANTIFREEZE DEVICE**
Milfred King Thomas, Birmingham, Ala.
Application February 24, 1943, Serial No. 476,953
1 Claim. (Cl. 219—39)

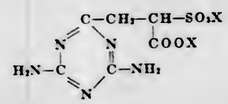


Apparatus for preventing pipes from freezing comprising a closed casing adapted for extension of a pipe into the same and having a side door, a hollow electrical heating element in said casing adapted to receive therein a pipe extended into the casing, a thermal indicator mounted on said door and including an indicating hand and a heat responsive device for actuating the hand, a contact on said door for engagement by said hand, and lead lines from the hand and contact to opposite sides of the heating element and arranged in said casing to be extended out of the same when the door is open.

---

2,390,476
**SULPHOALIPHATIC GUANAMINES**
Jack Theo Thurston, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 409,145
5 Claims. (Cl. 260—249.5)

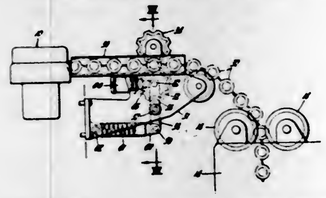
1. A $\beta$-sulpho - $\beta$ - carboxypropionoguanamine having the following formula:



in which X is a member of the group consisting of hydrogen, salt forming, strong organic nitrogen bases and salt forming metals.



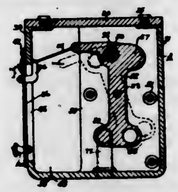
2,390,477
**MACHINE GUN FEED MECHANISM**
John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application February 7, 1941, Serial No. 377,819
4 Claims. (Cl. 89—33)



1. A machine gun ammunition feed mechanism comprising a support, an ammunition belt guide mounted upon said support to extend into registry with the ammunition feed port of the machine gun, said guide comprising a conduit-like member adapted to slidably receive the belt in laterally confined relation, a belt driver movably mounted upon said support and extending into said conduit intermediate the ends thereof for driving engagement with the belt to force it to move through said guide in ammunition feeding direction toward said gun, motor means, elastic power transmission means coupling said motor means to said driver for actuating the latter to feed the belt through said guide toward the gun, elastic force means mounted upon said support and bearing against said driver to elastically urge said driver to positionally move in the direction of ammunition feeding toward said gun and to resist movement thereof in the direction opposite to the direction of belt feeding movement through said guide, and motor control means mounted upon said support in registry with said driver and adapted to be actuated thereby to cause said motor means to be de-energized upon movement of said driver against the action of said elastic means.

---

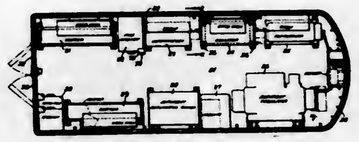
2,390,478
**THREAD ACCUMULATOR FOR WEFT REPLENISHING LOOMS**
Walter H. Wakefield, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester Mass., a corporation of Massachusetts
Application June 3, 1944, Serial No. 538,568
15 Claims. (Cl. 139—247)



1. In a weft replenishing loom having a pneumatic remover for waste threads, means constituting a normally closed main thread compartment, other means constituting an inclosed auxiliary compartment in which sub-atmospheric pressures exist and pneumatically connected with the main compartment through a screened opening, a door for the main compartment normally in closed position and movable to open position for removal of waste threads from the main compartment, hollow means providing an inclosed primary air path leading from the remover to the main compartment, other hollow means providing an inclosed secondary air path leading from the remover to the auxiliary compartment, and a valve connected to the door and in one position when the door is closed and in another position when the door is open, said valve effective when in said one position to maintain pneumatic connection between said compartments through said screened opening and between the main compartment and the primary air path but close said secondary air path, and said valve effective when in the other position thereof to close said screened opening and said primary air path and open said secondary air path.

---

2,390,479
**MOBILE ACCOUNTING DEVICE**
Arthur K. Watson, New Canaan, Conn., William L. Lewis, Binghamton, N. Y., and James L. Walsh, Washington, D. C., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 10, 1942, Serial No. 450,470
3 Claims. (Cl. 296—1)

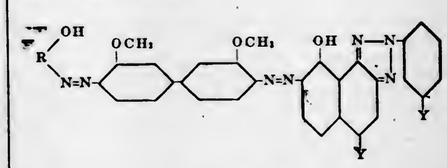


1. As a means for resiliently mounting an object in a vehicle body, a skid fastened to the floor of said body and at right angles to a wall of said body, a runner movable on said skid, shock absorbing devices attached between said object and said runner, a stop on said skid to position said runner with the object near the wall, means for fastening the runner on the skid when the object is positioned, a resilient wall mounting and means for clamping said object to said wall mounting.

---

2,390,480
**METALLIZED AZO TRIAZOLES**
Byron L. West, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 16, 1943, Serial No. 491,049
4 Claims. (Cl. 260—146)

1. Copper complexes obtained from disazo dyes having the formula:

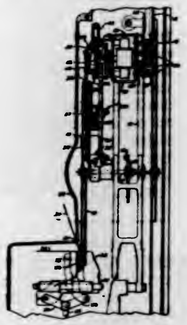


in which R is the residue of a coupling component, the hydroxyl group and the nitrogen being ortho to each other, and Y is a member of the group consisting of the sulfonic acid group and its salts.

2,390,481
**MODIFIED FORMALDEHYDE-ACETONE RESIN AND PROCESS OF MAKING SAME**
Thomas C. Whitner, Elizabeth, N. J., assignor to Chemical Laboratories, Inc., a corporation of New Jersey
No Drawing. Application May 29, 1943, Serial No. 489,254
11 Claims. (Cl. 260—9)

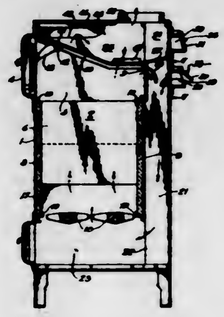
1. The process which comprises admixing a water-soluble naturally-occurring gum with a liquid water-soluble condensation product of acetone and formaldehyde, said liquid condensation product being prepared by reacting formaldehyde with acetone in an aqueous solution of an inorganic alkaline catalyst and concentrating said aqueous solution at a temperature of about 100° C. and at atmospheric pressure, adding a strongly alkaline condensing agent to said admixture of said gum and said liquid condensation product, and heating said admixture to a temperature greater than atmospheric temperature but not exceeding about 100° C., whereby a substantially water-insoluble resinous composition containing an incorporated water-soluble naturally-occurring gum is obtained.

2,390,482
**PRINTING SCALE**
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application July 28, 1941, Serial No. 404,308
2 Claims. (Cl. 234—5.4)



2. In a printing weighing scale having a peripherally notched major-indicia-bearing disk movable in response to loads weighed on said scale, a minor-indicia-bearing member, a lever having a toothed end lying adjacent the edge of said disk and operatively connected to said minor-indicia-bearing member and fixed position means for imprinting the indicia borne by both of said members, a notch engaging pawl movable through a fixed path along the periphery of said disk and engageable in that one of the notches therein positioned in such path in response to a load on said scale and engageable in that one of the teeth in said lever adjacent which such notch in said disk is positioned by such load, a stop for limiting the movement of said pawl after engagement in such notch and tooth, in combination, linkage drivingly connected to said pawl for moving said pawl through such path, a two speed motor, a manually-operable starting switch for said motor, a cam driven by said motor for operating said linkage, switches for controlling the speed of said motor, a second cam driven by said motor for controlling said switches and another cam driven by said motor for controlling the operation of said printing means, whereby said motor rotates said cams to move said linkage and pawl to move said indicia bearing members until engagement of said pawl with said stop, and to cause imprinting of the indicia on said members and to operate said switches to slow the speed of said motor during the return of said pawl to starting position and then to stop said motor.

2,390,483
**INTERNAL CONSTRUCTION FOR STOVES AND FURNACES**
Paul Wingert, Montpelier, Ohio
Application June 19, 1941, Serial No. 398,785
6 Claims. (Cl. 126—73)

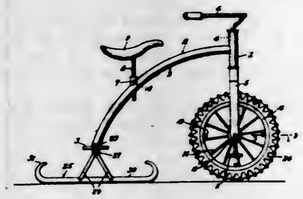


1. In a stove of the class described, the combination of a shell, a magazine having a top wall closing the upper end of the magazine, said top wall and shell forming an upper chamber at the top of the stove, grates defining the bottom of the magazine, said magazine being provided at the grates with openings, an ash pit located below the magazine, radiators arranged outside of the magazine and within said shell and extending from the chamber to said openings and having open ends located thereat, said radiators forming a communication between the chamber and the lower end of a magazine, an elongated down draft tube disposed vertically on the rear wall of said shell and having check and draft dampers positioned thereon adjacent the upper portion of said tube and in close proximity to each other, said check damper having direct communication with said upper chamber, the lower end of said tube having an outlet opening communicating with said ash pit below said grates, means in said tube separating air entering the check and draft dampers, and common means for actuating said dampers, the lower open ends of said radiators constituting sole outlets for the products of combustion whereby combustion is caused to take place at the grate line only.

2,390,484
**CONVERTIBLE VELOCIPEDE**
Joseph Weginrich, Walnutport, Pa.
Application April 20, 1943, Serial No. 483,789
1 Claim. (Cl. 280—8)

In a velocipede, a frame member inclining downwardly and rearwardly, a broad flat step-forming bolster extending across the lower end of said member, a pedal operative steering wheel mounted on the higher end of said member and having a spur-type tread, a runner assembly comprising a rod extending along the bottom of the bolster, a pair of elongated runners having up-





turned front and rear ends, a pair of brackets upstanding from said runners intermediate said ends thereof and depending from the ends of said rod, and a pair of clips spanning said rod and extending through said bolster with the nuts threaded thereon.

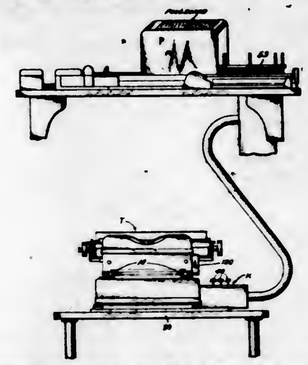
2,390,485
**SHOE AND WELT THEREFOR**
Wallace C. Wright, Brookfield, N. H., assignor to Wright-Batcheider Corporation, Boston, Mass., a corporation of Massachusetts
Application October 5, 1943, Serial No. 505,005
4 Claims. (Cl. 36—17)



2. An improved boot or shoe structure consisting in shoe upper material, an outsole, and a welt formed of waterproof plasticized vinyl resin, or the like material, secured to said upper and said outsole, said material having characteristics equivalent to Koroseal or Vinylite.

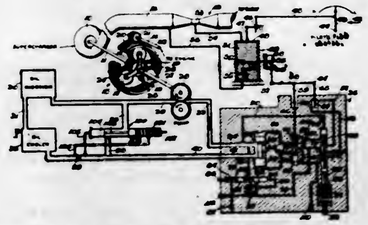
2,390,486
**RECORD PUNCHING MACHINE**
Charles R. Doty, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 15, 1945, Serial No. 578,108
18 Claims. (Cl. 164—113)

1. An apparatus of the class described, comprising a plurality of recording machines, keyboard means to commonly control said machines to effect concurrent recording by both machines or separate recording by each machine, and a plurality of selectable recording program determining means, one for each different program, for establishing a plurality of different preselected recording programs involving concurrent recording by both machines, or separate recording by either machine to be carried out by said



recording machines as said keyboard means is manipulated.

2,390,487
**FLOW REGULATING SYSTEM**
Donald M. Lawrence, Caldwell, N. J., and Samuel K. Lehman, Brooklyn, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 29, 1941, Serial No. 421,082
7 Claims. (Cl. 230—11)

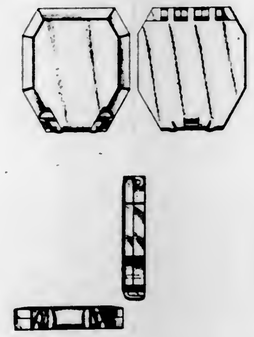


5. In combination, driving means having a variable operating speed range, supercharger means having a definite predetermined operating value and an output zone through which fluid flow from said supercharger means is to be regulated, connecting means effective for establishing a positive driving relationship between said driving means and said supercharger means to coordinate said value and range, hydraulic means for rendering said connecting means effective, regulator means for controlling said hydraulic means, fluid flow responsive means connected to said supercharger means and including a bellows operable in response to predetermined static and dynamic pressure relationships established in said zone, and means connecting said bellows to said regulator means for operating the latter to render said hydraulic means effective for modifying said driving relationship to insure retention of said value within said range.

# DESIGNS

DECEMBER 4, 1945

143,058
**DESIGN FOR A COMPACT**
Joseph Casalino, Forest Hills Gardens, N. Y., assignor to Nuroplas Corporation, New York, N. Y., a corporation of New York
Application October 19, 1944, Serial No. 115,859
Term of patent 3½ years
(Cl. D86—10)



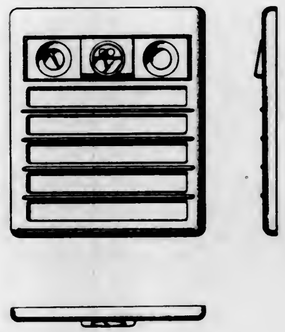
The ornamental design for a compact, as shown.

143,059
**DESIGN FOR A HAND TOY**
Earl W. Coble, Waterville, Ohio, assignor to Dudley W. Moor, Jr., and Eugene M. Belknap, both of Toledo, Ohio
Application March 5, 1945, Serial No. 118,266
Term of patent 14 years
(Cl. D34—15)



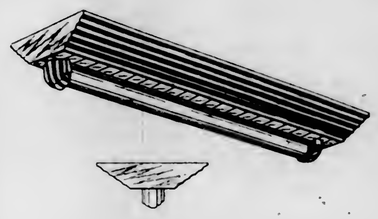
The ornamental design for a hand toy, substantially as shown and described.

143,060
**DESIGN FOR A REFRIGERATOR PANEL**
William S. Connell, Norwood Park Township, Cook County, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application December 2, 1944, Serial No. 116,673
Term of patent 7 years
(Cl. D67—3)



The ornamental design for a refrigerator panel, as shown.

143,061
**DESIGN FOR A FLUORESCENT LIGHTING FIXTURE**
George John Creed, Milton, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application June 8, 1944, Serial No. 113,909
Term of patent 14 years
(Cl. D48—23)



The ornamental design for a fluorescent lighting fixture, as shown.





143,062
**DESIGN FOR A DRESS**
Elizabeth Cutler, New York, N. Y.
Application August 21, 1945, Serial No. 121,528
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

143,063
**DESIGN FOR A DRESS**
Elizabeth Cutler, New York, N. Y.
Application September 10, 1945, Serial No. 121,957
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

143,064
**DESIGN FOR A DRESS**
Elizabeth Cutler, New York, N. Y.
Application September 10, 1945, Serial No. 121,959
Term of patent 3½ years
(Cl. D3—26)



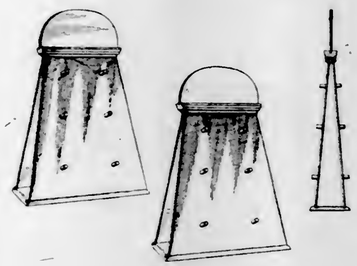
The ornamental design for a dress, substantially as shown.

143,065
**DESIGN FOR A DRESS**
Elizabeth Cutler, New York, N. Y.
Application September 10, 1945, Serial No. 121,960
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

143,066
**DESIGN FOR A DISPLAY STAND FOR GRINDING WHEELS AND SIMILAR ARTICLES**
Edward B. Gallaher, Norwalk, Conn., assignor to Clover Manufacturing Co., Norwalk, Conn., a corporation of New York
Application April 27, 1945, Serial No. 119,277
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a display stand for grinding wheels and similar articles, as shown.

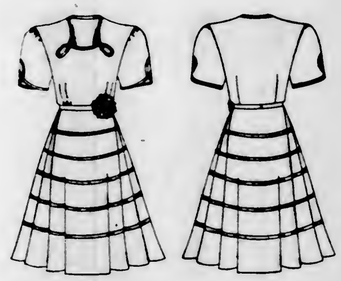
---

143,067
**DESIGN FOR A PROJECTOR**
Lester Geis, New York, N. Y., and Charles L. Metzler, Palisades Park, N. J., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application September 10, 1945, Serial No. 121,976
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a projector or similar article, substantially as shown and described.

143,068
**DESIGN FOR A DRESS**
Jack Glad, New York, N. Y.
Application September 6, 1945, Serial No. 121,863
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

---

143,069
**DESIGN FOR A DRESS**
Jack Glad, New York, N. Y.
Application September 6, 1945, Serial No. 121,864
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.



143,070
**DESIGN FOR A DRESS**
Jack Glad, New York, N. Y.
Application September 6, 1945, Serial No. 121,865
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

---

143,071
**DESIGN FOR A DRESS**
Jack Glad, New York, N. Y.
Application September 6, 1945, Serial No. 121,866
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

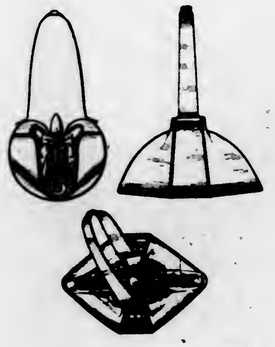
143,072
**DESIGN FOR A SIGN**
Gustav A. Heike, Mondovi, Wis.
Application June 26, 1945, Serial No. 120,345
Term of patent 3½ years
(Cl. D1—12)



The ornamental design for a sign, as shown.

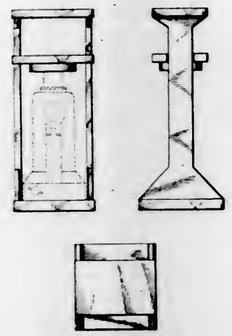
---

143,073
**DESIGN FOR A HANDBAG**
Frank X. Hiltenbrand, Weehawken, N. J., assignor to Harry Rosenfeld Co., New York, N. Y., a firm
Application July 28, 1945, Serial No. 121,049
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown.

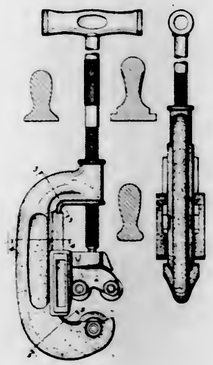
**143,074**
**DESIGN FOR A DENTAL PRESS**
**John J. Ingle, Colville, Wash.**
**Application March 2, 1945, Serial No. 118,224**
**Term of patent 7 years**
**(Cl. D63—1)**



The ornamental design for a dental press, as shown and described.

---

**143,075**
**DESIGN FOR A PIPE CUTTING TOOL**
**Carl H. Ingwer, Elyria, Ohio**
**Application July 9, 1945, Serial No. 120,572**
**Term of patent 14 years**
**(Cl. D54—13)**



The ornamental design for a pipe cutting tool, substantially as shown and described.

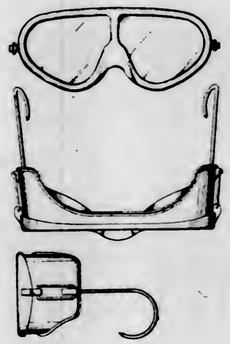
**143,076**
**DESIGN FOR A TOY MUSICAL MERRY-GO-ROUND**
**Murray Kellerman, Brooklyn, N. Y.**
**Application February 28, 1945, Serial No. 118,176**
**Term of patent 3½ years**
**(Cl. D34—15)**



The ornamental design for a toy musical merry-go-round, as shown.

---

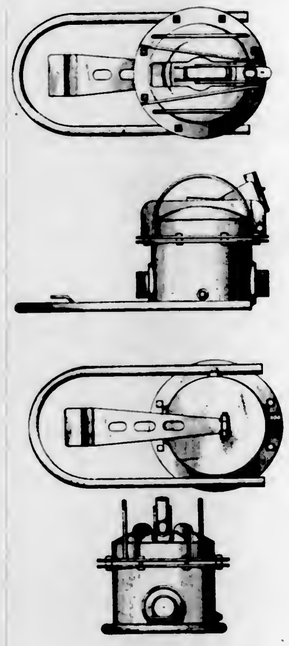
**143,077**
**DESIGN FOR AN EYE SHIELD**
**Donald E. Kimball, Cleveland Heights, Ohio**
**Application July 20, 1945, Serial No. 120,820**
**Term of patent 14 years**
**(Cl. D57—1)**



The ornamental design for an eye shield, as shown.



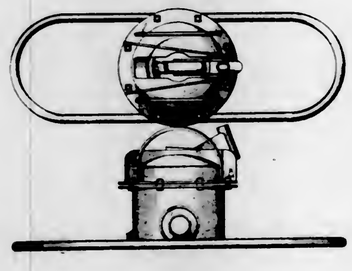
**143,078**
**DESIGN FOR A BILGE PUMP OR SIMILAR ARTICLE**
**Thomas Langan, Annapolis, Md.**
**Application July 17, 1945, Serial No. 120,758**
**Term of patent 14 years**
**(Cl. D65—1)**



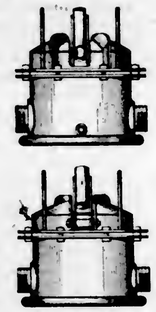
The ornamental design for a bilge pump or similar article, as shown.

---

**143,079**
**DESIGN FOR A BILGE PUMP OR SIMILAR ARTICLE**
**Thomas Langan, Annapolis, Md.**
**Application July 17, 1945, Serial No. 120,759**
**Term of patent 14 years**
**(Cl. D65—1)**



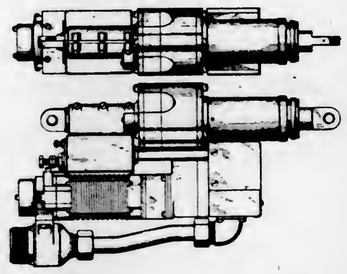
**143,079—Continued**

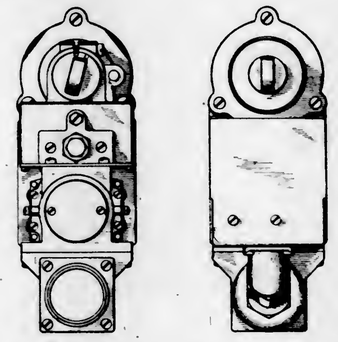


The ornamental design for a bilge pump or similar article, as shown.

---

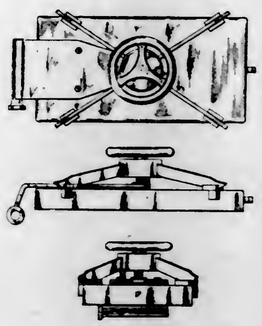
**143,080**
**DESIGN FOR AN AUTOMATIC ACTUATOR FOR AIRPLANE WING FLAPS**
**William P. Lear, North Hollywood, and John M. Wehner, Culver City, Calif., assignors to Lear, Incorporated, Piqua, Ohio, a corporation of Illinois**
**Application January 6, 1945, Serial No. 117,294**
**Term of patent 14 years**
**(Cl. D71—1)**





The ornamental design for an automatic actuator for airplane wing flaps, substantially as shown.

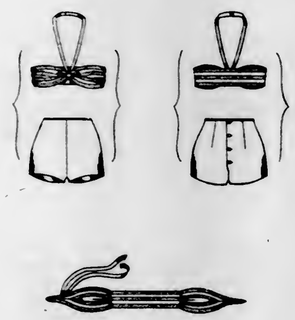
143,081
**DESIGN FOR A COMBINED PRESSURE COOKER DOOR AND SECURING APPARATUS**
Eugene J. Le Claire, St. Paul, Minn., assignor to Harry F. Joesting, St. Paul, Minn.
Application December 9, 1944, Serial No. 116,822
Term of patent 7 years
(Cl. D44—1)



The ornamental design for a combined pressure cooker door and securing apparatus, as shown.

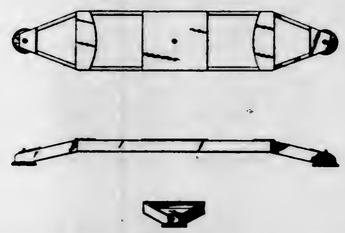
---

143,082
**DESIGN FOR A BATHING SUIT**
Tina Leser, New York, N. Y.
Substituted for abandoned application Serial No. 116,322, November 14, 1944. This application August 6, 1945, Serial No. 121,271
Term of patent 3½ years
(Cl. D3—17)



The ornamental design for a bathing suit, substantially as shown and described.

143,083
**DESIGN FOR A ROAD BROOM FRAME**
William Hurst Lewis, Altadena, Calif.
Application July 12, 1944, Serial No. 114,372
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a road broom frame, substantially as shown.

---

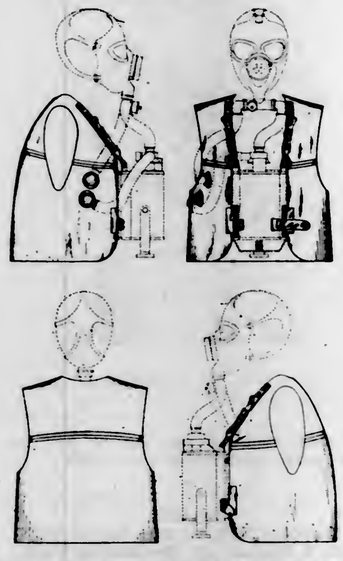
143,084
**DESIGN FOR A BREATHING APPARATUS**
John B. Littlefield, Mahanoy City, John H. Schneider, Irwin, and William P. Yant, Murraysville, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa.
Application January 16, 1942, Serial No. 105,236
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a breathing apparatus, substantially as shown and described.



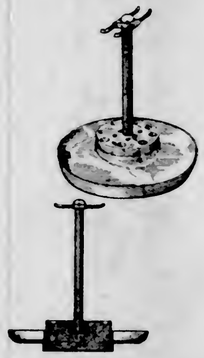
143,085
**DESIGN FOR A BREATHING APPARATUS**
John B. Littlefield, Mahanoy City, John H. Schneider, Irwin, and William P. Yant, Murraysville, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa.
Application January 16, 1942, Serial No. 105,237
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a breathing apparatus, substantially as shown and described.

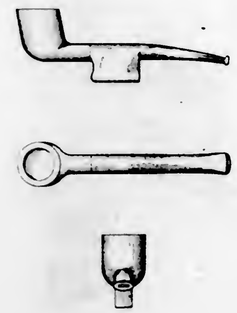
---

143,086
**DESIGN FOR A NUT BOWL**
Elbert Lowdermilk, Denver, Colo.
Application July 7, 1945, Serial No. 120,556
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a nut bowl, as shown.

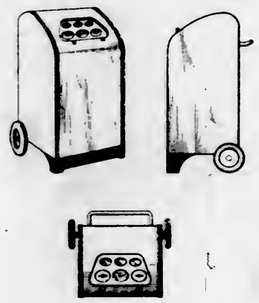
143,087
**DESIGN FOR A PIPE**
Herbert R. Maid, Berwyn, Ill.
Application July 25, 1945, Serial No. 120,954
Term of patent 7 years
(Cl. D85—8)



The ornamental design for a pipe, as shown.

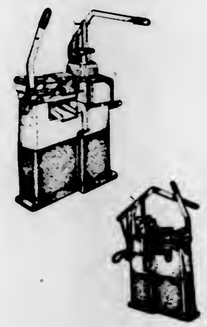
---

143,088
**DESIGN FOR A COMBINED BATTERY TESTER AND CHARGER**
John D. Maultsby, Jr., Kansas City, Mo., assignor to C. Earl Hovey, trustee, Kansas City, Mo.
Application March 3, 1945, Serial No. 118,240
Term of patent 7 years
(Cl. D26—5)



The ornamental design for a combined battery tester and charger, as shown.

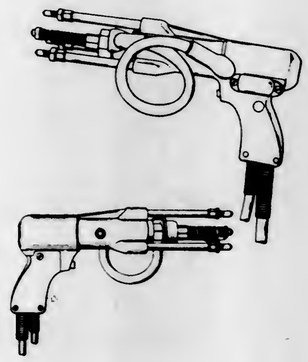
**143,089**
**DESIGN FOR A DIE-CASTING MACHINE**
**Aubrey Robert Mills, Southgate, England**
**Application May 25, 1945, Serial No. 119,723**
**Term of patent 14 years**
**(Cl. D55—1)**



The ornamental design for a die-casting machine, as shown.

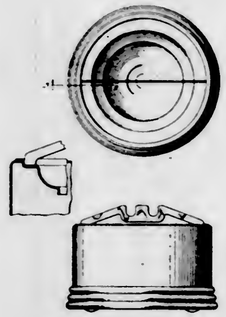
---

**143,090**
**DESIGN FOR A STUD WELDING MACHINE**
**Ted Nelson, San Leandro, Calif.**
**Application August 29, 1944, Serial No. 115,107**
**Term of patent 14 years**
**(Cl. D26—1)**



The ornamental design for a stud welding machine, substantially as shown.

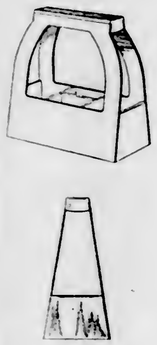
**143,091**
**DESIGN FOR AN ASH TRAY OR SIMILAR ARTICLE**
**William C. Panzer, Chicago, Ill.**
**Application May 14, 1945, Serial No. 119,546**
**Term of patent 14 years**
**(Cl. D85—2)**



The ornamental design for an ash tray or similar article, substantially as shown.

---

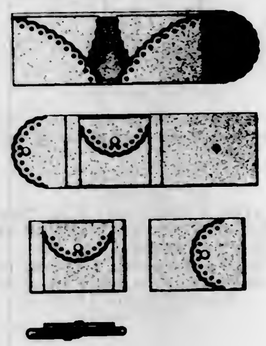
**143,092**
**DESIGN FOR A SHOE SHINE BOX**
**Joseph T. Pearson, Jr., Huntingdon Valley, Pa.**
**Application July 17, 1945, Serial No. 120,767**
**Term of patent 7 years**
**(Cl. D58—4)**



The ornamental design for a shoe shine box, as shown.



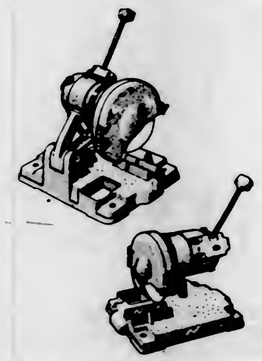
**143,093**
**DESIGN FOR A BILLFOLD**
**William A. Pence, Adell, Wis., assignor to Enger-Kress Company, West Bend, Wis., a corporation of Wisconsin**
**Application March 26, 1945, Serial No. 118,705**
**Term of patent 14 years**
**(Cl. D87—3)**



The ornamental design for a billfold, as shown.

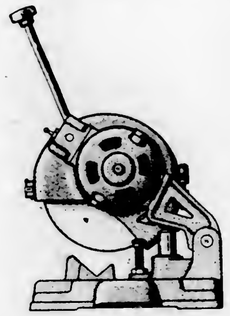
---

**143,094**
**DESIGN FOR A CUTTING MACHINE**
**William A. Phillis, Warren, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio**
**Application June 26, 1945, Serial No. 120,347**
**Term of patent 14 years**
**(Cl. D54—14)**



581 O. G.—11

**143,094—Continued**



The ornamental design for a cutting machine, as shown.

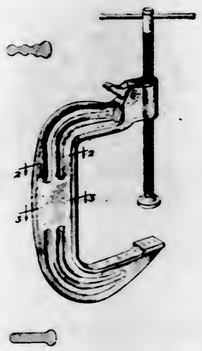
---

**143,095**
**DESIGN FOR A BASKET**
**Mildred Rajah, Buffalo, N. Y.**
**Application December 20, 1944, Serial No. 117,005**
**Term of patent 7 years**
**(Cl. D58—4)**



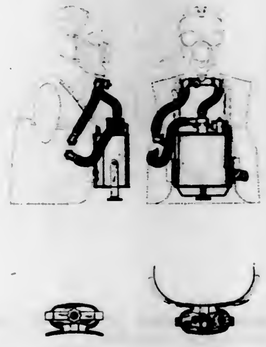
The ornamental design for a basket, substantially as shown and described.

143,096
**DESIGN FOR A C-CLAMP**
Anthony M. Sasgen, Chicago, Ill., assignor to Grand Specialties Company, Chicago, Ill., a corporation of Illinois
Application May 11, 1945, Serial No. 119,500
Term of patent 14 years
(Cl. D93—4)

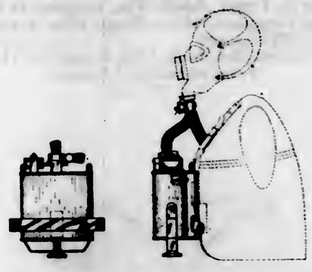


The ornamental design for a C-clamp, as shown.

143,097
**DESIGN FOR A BREATHING APPARATUS**
John H. Schneider, Irwin, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application January 16, 1942, Serial No. 105,238
Term of patent 14 years
(Cl. D83—1)

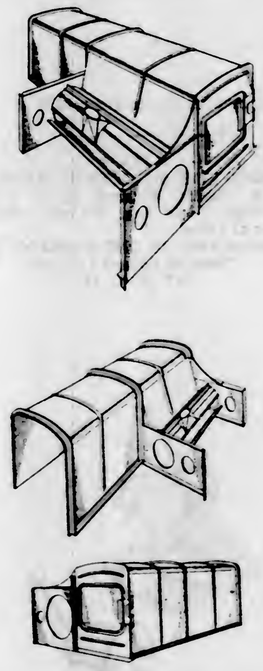


143,097—Continued



The ornamental design for a breathing apparatus, substantially as shown and described.

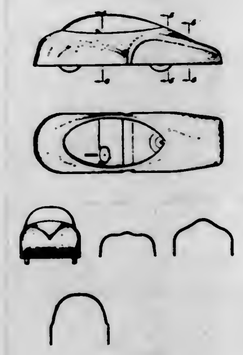
143,098
**DESIGN FOR A HOUSING FOR THRESHING AND SEPARATING MECHANISM OF A HARVESTER-THRESHER**
Charles J. Scranton, La Porte, Ind.
Application February 28, 1945, Serial No. 118,189
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a housing for threshing and separating mechanism of a harvester-thresher, as shown.



143,099
**DESIGN FOR A TOY AUTOMOBILE OR THE LIKE**
James L. Stack, Jr., Crystal Bay, Nev.
Application March 19, 1945, Serial No. 118,565
Term of patent 3½ years
(Cl. D34—15)



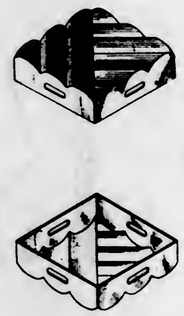
The ornamental design for a toy automobile or the like, as shown.

143,100
**DESIGN FOR A VALVE HANDLE**
Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application March 2, 1945, Serial No. 118,220
Term of patent 7 years
(Cl. D91—3)



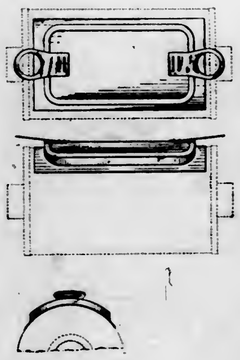
The ornamental design for a valve handle, substantially as shown.

143,101
**DESIGN FOR A PLASTIC UNIT FOR USE ON HANDBAGS OR THE LIKE**
Richard S. Temko, New York, N. Y.
Application December 26, 1944, Serial No. 117,078
Term of patent 14 years
(Cl. D87—3)



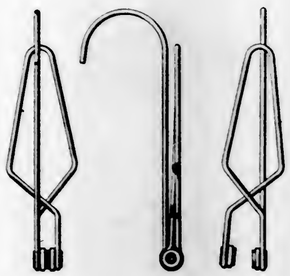
The ornamental design for a plastic unit for use on handbags or the like, as shown.

143,102
**DESIGN FOR AN AIR PURIFYING CANISTER**
William P. Yant and Kenneth B. Ray, Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa.
Application September 19, 1940, Serial No. 95,197
Term of patent 14 years
(Cl. D83—1)



The ornamental design for an air purifying canister, substantially as shown and described.

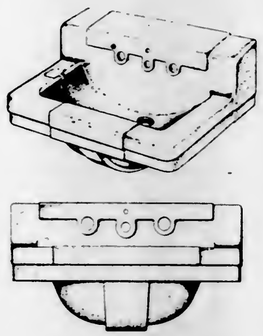
**143,103**
**DESIGN FOR A SPRING-CLIP HANGER**
**George Yates, Glendale, Calif.**
**Application April 30, 1945, Serial No. 119,310**
**Term of patent 14 years**
**(Cl. D80—8)**



The ornamental design for a spring-clip hanger, as shown.

---

**143,104**
**DESIGN FOR A LAVATORY**
**Willard G. Young, Kenmore, N. Y., assignor to W. A. Case and Son Manufacturing Company, Buffalo, N. Y., a corporation of New York**
**Application July 14, 1945, Serial No. 120,703**
**Term of patent 14 years**
**(Cl. D4—2)**



The ornamental design for a lavatory, as shown.

---

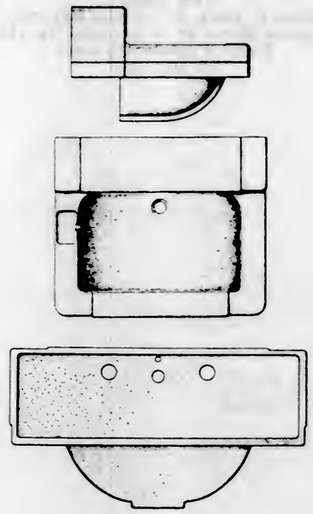
**143,105**
**DESIGN FOR A STRAINER**
**William C. P. Zabel and Richard C. Helfenbein, Chicago, Ill.**
**Application June 13, 1945, Serial No. 120,042**
**Term of patent 14 years**
**(Cl. D44—29)**



The ornamental design for a strainer, as shown.

---







THE
# OFFICIAL GAZETTE
OF THE
## United States Patent Office

Vol. 581—No. 2 TUESDAY, DECEMBER 11, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

| | Page |
|---|---|
| Issue of December 11, 1945 | 165 |
| Disclaimers | 165 |
| Notice of Tentative Recordation of Trade Name | 165 |
| Applications Under Examination | 166 |
| Decisions of the U. S. Courts— | |
| Revere Paint Company v. 20th Century Chemical Company | 167 |
| Snap-on Tools Corporation v. The Black & Decker Manufacturing Co | 171 |
| In re Starr | 174 |
| McKesson & Robbins, Inc., v. American Foundation for Dental Science | 174 |
| Trade-Mark Registrations Canceled | 176 |
| Interference Notice | 176 |
| Notices of Cancellation | 176 |
| Adjudicated Patents | 176 |
| Notice | 176 |
| Register of Patents Available for Licensing or Sale | 176 |
| Notice | 180 |
| Trade-Marks Published (129 Applications) | 181 |
| Trade-Mark Registrations Granted | 197 |
| Trade-Mark Registrations Renewed | 203 |
| Reissues | 207 |
| Plant Patents | 207 |
| Patents Granted | 208 |
| Designs | 326 |

## December 11, 1945

| | | | |
|---|---|---|---|
| Trade-Marks | 131 | No. 418,189 to No. 418,319, | inclusive. |
| T. M. Renewals | 81 | | |
| Reissues | 1 | No. 22,703 | |
| Plant Patents | 1 | No. 663 | |
| Patents | 492 | No. 2,390,488 to No. 2,390,979, | inclusive. |
| Designs | 73 | No. 143,106 to No. 143,178, | inclusive. |
| Total | 779 | | |

## Disclaimers

T.-M. 326,200.—*G., H. & E. Freydberg, Inc.*, New York, N. Y. HATS, COATS, DRESSES, UNDER AND OUTER SKIRTS, PAJAMAS, NEGLIGEES, HOSIERY; STEP-INS—NAMELY, CORSETS AND UNDERDRAWERS, CHEMISES, SWEATERS, BATHING SUITS AND NIGHTGOWNS FOR WOMEN AND CHILDREN. Registered July 16, 1935. Disclaimer filed Nov. 5, 1945, by the registrant.

Hereby disclaims the mark "EVELO" insofar as hosiery for women and children is concerned.

---

2,280,981.—*Arthur E. Schuh*, Riverton, N. J. FABRICATION OF LAMINATED METAL OBJECTS. Patent dated Apr. 28, 1942. Disclaimer filed Oct. 30, 1945, by the assignee, *Bell Telephone Laboratories, Incorporated.*

Hereby enters this disclaimer to claims 1, 2, 4, 5, 10, and 12 of said patent.

---

2,386,263.—*Garvice H. Ridings*, Summit, and *Raleigh J. Wise*, Dunellen, N. J. FACSIMILE TELEGRAPH SYSTEM AND APPARATUS. Patent dated Oct. 9, 1945. Disclaimer filed Oct. 31, 1945, by the assignee, *The Western Union Telegraph Company.*

Hereby enters this disclaimer of claim 5 in said patent.

---

## Notice of Tentative Recordation of Trade Name

[T. D. 51348]

*Tentative recordation of trade name under section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943*

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
*Washington, D. C., Nov. 14, 1945*

*To Collectors of Customs and Others Concerned:*

An application was filed in the Treasury Department on November 5, 1945, for the recordation of the following-described trade name under the provisions of section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943:

"PACIFIC FOREST ARTS," owned by Pacific Forest Arts, a partnership consisting of N. L. Bullard and L. V. Cleworth, citizens of the United States, doing business at 0807 S. W. Miles Street, Portland 1, Oregon, and used in connection with the manufacture and sale of light wooden items such as novelties consisting of turned serving trays, salad bowls, lamps, bookends, and analogous products, and Christmas and greeting cards of veneer or bark overlaid with copper, light antiqued or hammered metal usually being used in combination with such wooden articles.

The recordation of the foregoing trade name shall become final at the expiration of 30 days after November 27, 1945. Any person who desires to file an opposition to the recordation of this trade name shall file it with the Commissioner of Customs prior to the expiration of such 30-day period.

Until the expiration of the above-mentioned 30-day period any articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless notice of the cancellation of the recordation is sooner received.

364.12

(Signed) W. R. JOHNSON,
*Commissioner of Customs.*

## Condition of Applications Under Examination at Close of Business November 23, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 80,586; Trade-Mark Division, 3,244. Oldest new case, Oct. 31, 1944; oldest amended, Nov. 2, 1944.)

(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action | | No. of applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 6 | Jan. 8 | 1324 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Nov. 3 | †Nov. 6 | 1551 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 13 | Jan. 22 | 1400 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | Apr. 12 | †Dec. 29 | 1250 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Nov. 13 | †Nov. 15 | 2163 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb. 3 | Mar. 1 | 1397 |
| 7. JARBOE, C. G., Optics, Photography | June 5 | June 1 | 1199 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Mar. 29 | Apr. 14 | 1397 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 13 | 1460 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 18 | June 2 | 394 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 5 | †Nov. 25 | 1450 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning | Apr. 9 | Apr. 4 | 1229 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Apr. 11 | Apr. 4 | 946 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | May 15 | Apr. 23 | 908 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 24 | Apr. 5 | 956 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Jan. 18 | Jan. 1 | 750 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 15 | Feb. 21 | 1303 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Mar. 21 | Mar. 26 | 882 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Mar. 13 | Mar. 20 | 937 |
| 21. THOMPSON, T. J., Textiles | May 21 | May 23 | 554 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Feb. 24 | Mar. 14 | 1201 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 28 | 168 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 9 | Apr. 2 | 922 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Feb. 12 | Mar. 2 | 1137 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 15 | †Dec. 26 | 1411 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Dec. 6 | 1305 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | †Dec. 30 | †Dec. 6 | 1129 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles: Button Making; Woodworking; Tools. | Jan. 9 | Jan. 4 | 1349 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 24 | Feb. 9 | 1426 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | June 28 | June 28 | 900 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Apr. 9 | Apr. 21 | 1086 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 15 | Feb. 17 | 1376 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 8 | Feb. 19 | 789 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Feb. 1 | Feb. 13 | 1148 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Mar. 8 | Mar. 9 | 914 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 1 | †Dec. 15 | 1287 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Feb. 2 | Feb. 2 | 1035 |
| 39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 18 | Jan. 20 | 1400 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 17 | Mar. 5 | 1633 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 657 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Apr. 4 | Mar. 27 | 715 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Aso Compounds. | Jan. 12 | Jan. 4 | 835 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Nov. 9 | †Nov. 2 | 778 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Feb. 8 | Feb. 9 | 1501 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | Jan. 15 | Feb. 9 | 860 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 12 | Apr. 23 | 1414 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | Jan. 2 | Jan. 10 | 1437 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Apr. 7 | Apr. 2 | 813 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 15 | Mar. 15 | 1636 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Feb. 8 | Jan. 20 | 2322 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 9 | Feb. 2 | 1935 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Nov. 9 | †Nov. 30 | 1601 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Oct. 31 | †Nov. 25 | 1561 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 2 | Mar. 9 | 1014 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | Jan. 1 | Jan. 3 | 1173 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 15 | †Dec. 19 | 1366 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | May 12 | 840 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 26 | †Dec. 16 | 1549 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 22 | Jan. 22 | 1334 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 19 | Feb. 21 | 1333 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 7 | †Dec. 9 | 2140 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 27 | Feb. 1 | 1092 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | July 14 | July 16 | 855 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Dec. 7 | †Dec. 8 | 1541 |
| Trade-Marks: RICHMOND, F. A | July 31 | Sept. 12 | 3244 |
| Designs: KALUPY, H. H | Aug. 1 | Sept. 21 | 2161 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907]

Aladdin Laboratories, Inc., Minneapolis, Minn. Hair rinse preparation. Serial No. 484,655; Dec. 11. Class 6.

Allen-Squire Co., Spencer, Mass. Leather and rubber shoes. Serial No. 486,237; Dec. 11. Class 39.

American Chemical Paint Company, Ambler, Pa. Chemical composition. Serial No. 485,322; Dec. 11. Class 6.

American Cyanamid & Chemical Corporation, New York, N. Y. Chemical preparation. Serial No. 486,732; Dec. 11. Class 6.

American Dietaids Company, Inc., Yonkers, N. Y. Soybean milk with added vitamins and minerals. Serial No. 488,008; Dec. 11. Class 46.

Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Cleaning preparation in granule, powder, liquid or other forms. Serial No. 486,642; Dec. 11. Class 4.

Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Liquid polishing wax. Serial No. 486,643; Dec. 11. Class 16.

Audette, Benjamin J., doing business as Benmatt Organization, Chicago, Ill. Electric iron cord. Serial No. 484,335; Dec. 11. Class 21.

"Automatic" Sprinkler Company of America, Youngstown, Ohio. Photoelectric cells and their actuating circuits and parts thereof. Serial No. 471,783; Dec. 11. Class 21.

"Automatic" Sprinkler Company of America, Youngstown, Ohio. Heat actuated thermostats, and sprinkler system control thermostats. Serial No. 471,784; Dec. 11. Class 26.

Badger Body Manufacturing Company, Omaha, Nebr. Bodies and cabs for truck and passenger automobiles, and commercial passenger trailers. Serial No. 481,173; Dec. 11. Class 19.

Bantam Books, Inc., New York, N. Y. Printed books. Serial No. 486,023; Dec. 11. Class 38.

Baumgardner, Robert C., doing business as Beco Laboratories, St. Paul, Minn. Nail polish remover, hair shampoo, skin lotion, etc. Serial No. 484,999; Dec. 11. Class 6.

Beco Laboratories: *See*—
Baumgardner, Robert C.

Beebe Laboratories, Inc., St. Paul, Minn. Disinfectant and germicidal treatment of drinking water. Serial No. 486,645; Dec. 11. Class 6.

Beebe Laboratories, Inc., St. Paul, Minn. Vitamin preparation. Serial No. 486,646; Dec. 11. Class 6.

Benmatt Organization: *See*—
Audette, Benjamin J.

Bianchino, Joe, Kansas City, Mo. Sheet music and musical instruction books. Serial No. 481,007; Dec. 11. Class 38.

Boyer, Haskell D., Fort Worth, Tex. Prepared foods. Serial No. 488,448; Dec. 11. Class 46.

Breneman, Chas. W., Co., The, Cincinnati, Ohio. Bathroom sets, consisting of shower curtains and window curtains. Serial No. 486,650; Dec. 11. Class 13.

Buchsbaum, S., & Co., Chicago, Ill. Billfolds. Serial No. 486,748; Dec. 11. Class 3.

Candymasters Incorporated, Minneapolis, Minn. Candy bars. Serial No. 476,900; Dec. 11. Class 46.

Capital City Products Co., The Columbus, Ohio. Hydrogenated vegetable shortening. Serial No. 481,942; Dec. 11. Class 46.

Carman & Co., Inc., New York, N. Y. Bluing preparation. Serial No. 485,812; Dec. 11. Class 6.

Cherry, E., Sons & Co., Philadelphia, Pa. Candies, salted nuts, and glace fruits and honey. Serial No. 478,856; Dec. 11. Class 46.

Columbia Handbag Corp., New York, N. Y. Billfolds. Serial No. 486,608; Dec. 11. Class 3.

Consolidated Mining and Smelting Company of Canada, Limited, The, Montreal, Quebec, Canada. Cadmium, mercury, indium, bismuth, and tin. Serial No. 481,212; Dec. 11. Class 14.

Conveyor Repair Service Inc., Cleveland, Ohio. Portable conveyors. Serial No. 477,407; Dec. 11. Class 23.

Cosa Corporation, New York, N. Y. Machine tools. Serial No. 484,482; Dec. 11. Class 23.

Dale News, Inc., Lily Dale, N. Y. Semi-monthly religious publication. Serial No. 481,103; Dec. 11. Class 38.

De Haven, John R., Minneapolis, Minn. Column published periodically in newspapers. Serial No. 487,597; Dec. 11. Class 38.

Delta Manufacturing Company, The, Milwaukee, Wis. Sanding kits. Serial No. 486,669; Dec. 11. Class 4.

Dodge Manufacturing Corporation, Mishawaka, Ind. Castings comprising parts for power transmission machinery. Serial No. 475,484; Dec. 11. Class 14.

Dunhill, Alfred, of London, Inc., New York, N. Y. Pyrophoric cigar and cigarette lighters. Serial No. 485,816; Dec. 11. Class 34.

Elchenbaum, Herman, New York, N. Y. Umbrellas and parasols. Serial No. 488,599; Dec. 11. Class 41.

Electronic Products Manufacturing, Incorporated, Dexter, Mich., now by change of name to Vokar Corporation. Radio coils, radio vibrators, electric plug-in jacks, crystal holders, etc. Serial No. 483,847; Dec. 11. Class 21.

Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement apparatus. Serial Nos. 488,318–20; Dec. 11. Class 22.

Exola Products Co., Los Angeles, Calif. Penetrating oil, compressor oils, oiliness additives. Serial No. 473,639; Dec. 11. Class 15.

Federal Electric Company, Inc., Chicago, Ill. Cold cathode electric discharge lamps. Serial No. 481,986; Dec. 11. Class 21.

Fritz, William E., doing business as Tru Styl Golf Co., San Francisco, Calif. Golf club putter heads. Serial No. 485,907; Dec. 11. Class 22.

Gaebl, William L., Towson, Md. Natural mineral water. Serial No. 486,198; Dec. 11. Class 45.

Gaetz, Theodore E., doing business as L. C. Q. Drug Products Company, Worcester, Mass. Antacid powder. Serial No. 486,764; Dec. 11. Class 6.

Gates Rubber Company, The, Denver, Colo. V-belts for the transmission of power. Serial No. 486,856; Dec. 11. Class 35.

General Engineering and Manufacturing Company, St. Louis, Mo. Metal working machinery. Serial No. 484,627; Dec. 11. Class 23.

Gerator May Corporation, Baltimore, Md. Gears. Serial No. 481,987; Dec. 11. Class 23.

Gibbons, J. T., Inc., New Orleans, La. Dairy feed. Serial No. 482,319; Dec. 11 Class 46.

Glucksberg, Harry, New York, N. Y. Uniform hats. Serial No. 485,727; Dec. 11. Class 39.

Green, Lester C., doing business as Stationers R S Service, Seattle, Wash. Fountain marking pencils. Serial No. 479,432; Dec. 11. Class 37.

Hall, C. P., Company, The, Akron, Ohio. Cerium oxide for use as an abrasive, soap solutions, and dry cleaning solvents, etc. Serial No. 480,576; Dec. 11. Class 4.

Hall, C. P., Company, The, Akron, Ohio. Rubber compounding ingredients, rubber accelerators, rubber antioxidants, etc. Serial No. 480,577; Dec. 11. Class 6.

Hall, C. P., Company, The, Akron, Ohio. Ink pigments, vehicles for printing inks and varnishes to be used in printing inks, etc. Serial No. 480,578; Dec. 11. Class 11.

Hall, C. P., Company, The, Akron, Ohio. Paint pigments, paint vehicles, driers, magnesium carbonate. Serial No. 480,580; Dec. 11. Class 16.

Han-Kor, Inc., Cleveland, Ohio. Electric commutators. Serial No. 484,567; Dec. 11. Class 21.

Hearn Department Stores, Inc., New York, N. Y. Ladies' handkerchiefs. Serial No. 485,684; Dec. 11. Class 39.

Hearst Magazines Inc., New York, N. Y. Magazine. Serial No. 486,990; Dec. 11. Class 38.

Hercules Powder Company, Wilmington, Del. Carboxymethylcellulose. Serial No. 486,255; Dec. 11. Class 6.

Heribert, Herbert J., New York, N. Y. Solutions to be used as coatings or finishes or lacquers for leather. Serial No. 485,495; Dec. 11. Class 4.

Hooper, Wallace C., doing business as Noys-Toys, Los Angeles, Calif. Toy guns. Serial No. 487,325; Dec. 11. Class 22.

Horn, Clarence Lester, New York, N. Y. Paper material in the form of sheets. Serial No. 484,094; Dec. 11. Class 37.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Hose composed of rubber and fabric. Serial No. 485,687; Dec. 11. Class 35.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Hose composed of rubber and fabric. Serial No. 486,304; Dec. 11. Class 35.

Iron Fireman Manufacturing Company, Portland, Oreg. Rivet working tools, drills, cable splicing presses, etc. Serial No. 477,418; Dec. 11. Class 23.

King, Emmett M., New York, N. Y. Perfume, colognes, toilet water, etc. Serial Nos. 484,302–3; Dec. 11. Class 6.

Kinyon, Iris J., doing business as Kinyon Remedy Company, Topeka, Kans. Preparation used in the treatment of "athlete's foot" and "jungle itch." Serial No. 480,828; Dec. 11. Class 6.

Kinyon Remedy Company: *See*—
Kinyon, Iris J.

Kirk and Weideman, Los Angeles, Calif. Children's and infants' sleeping garments. Serial No. 485,778; Dec. 11. Class 39.

Koppers Company, Inc., Kearny, N. J. Scented insecticide. Serial No. 477,934; Dec. 11. Class 6.

Kruse & Connor, Chicago, Ill. Coin-controlled amusement game apparatus. Serial No. 488,465; Dec. 11. Class 22.

Kyle Products: *See*—
Kyle, Robert S.

Kyle, Robert S., doing business as Kyle Products, Los Angeles, Calif. Cosmetics. Serial No. 482,332; Dec. 11. Class 6.

L. C. Q. Drug Products Company: *See*—
Gaetz, Theodore E.

La-Lin Products: *See*—
Sperlonga, Peter.

Laray Cosmetics, Inc., Newark, N. J. Perfume. Serial No. 485,225; Dec. 11. Class 6.

Lebow, Victor, assignor to Sidney Schwartz, New York, N. Y. Pocket electric flash lights. Serial No. 484,348; Dec. 11. Class 21.

Lucky Tiger Manufacturing Company, Kansas City, Mo. Shampoo, hair dressing, hair tonic, etc. Serial No. 485,784; Dec. 11. Class 6.

Lyons-Magnus, Inc., San Francisco, Calif. Chocolate syrups. Serial No. 479,683; Dec. 11. Class 45.

Marblehead Lime Company, Chicago, Ill. Mineral supplement. Serial No. 481,640; Dec. 11. Class 6.

Martin, Martin W., Bell Harbour, Long Island, N. Y. Frozen custard, water ices, ice cream, etc. Serial No. 486,266; Dec. 11. Class 46.

Matzger Chocolate Company, San Francisco, Calif. Candy. Serial No. 485,640; Dec. 11. Class 46.

National Marking Machine Company, The, Cincinnati, Ohio. Cleaning compound. Serial No. 483,734; Dec. 11. Class 4.

National Stamping & Electric Works, Chicago, Ill. Electric smoothing irons, electric grills, electric toasters, etc. Serial No. 462,167; Dec. 11. Class 21.

New England Carbide Tool Co., Inc., Cambridge, Mass. Mortars and pestles. Serial No. 487,332; Dec. 11. Class 26.

Noya-Toys: *See*—
Hooper, Wallace C.

Old Fashion Ma's Root Beer Bottling Company, Wilkes-Barre, Pa. Nonalcoholic, noncereal, maltless beverages. Serial No. 486,803; Dec. 11. Class 45.

Orum, Samuel R. M., Philadelphia, Pa. Periodical. Serial No. 487,573; Dec. 11. Class 38.

Parke, Davis & Company, Detroit, Mich. Iradogen. Serial No. 485,588; Dec. 11. Class 6.

Parke, Davis & Company, Detroit, Mich. Antianemic preparation. Serial No. 485,590; Dec. 11. Class 6.

Perrine Qualitiy Products Corporation, Waltham, Mass. Storage batteries. Serial No. 441,745; Dec. 11. Class 21.

Phoenix Hosiery Company, Milwaukee, Wis. Hosiery. Serial No. 484,031; Dec. 11. Class 39.

Poor & Company, Chicago, Ill. Electrical apparatus used in the electrodeposition of metals. Serial No. 481,756; Dec. 11. Class 21.

Price Candy Company, Kansas City, Mo. Candy. Serial No. 487,384; Dec. 11. Class 46.

Princeton Silk Co., New York, N. Y. Piece goods—to wit, rayon piece goods. Serial No. 487,207; Dec. 11. Class 42.

Quality Products Co., Inc., New York, N. Y. Perfumes and toilet water. Serial Nos. 486,869–70; Dec. 11. Class 6.

Quality Products Co., Inc., New York, N. Y. Perfumes and toilet water. Serial No. 486,872; Dec. 11. Class 6.

Reciprocal Trade Corporation, The, New York, N. Y. Cameras. Serial No. 487,387; Dec. 11. Class 26.

Re-Dan Packing Company, Ozone Park, New York, N. Y. Cooked and prepared dog food. Serial No. 484,637; Dec. 11. Class 46.

Reproducta, Inc., New York, N. Y. Greeting cards. Serial No. 485,963; Dec. 11. Class 38.

Resistoflex Corporation, Belleville, N. J. Friction power transmission rings, flexible tubes, hose, etc. Serial No. 482,644; Dec. 11. Class 35.

Rival Foods, Inc., Cambridge, Mass. Matches. Serial No. 485,652; Dec. 11. Class 9.

Rosenblatt, D. B., Incorporated, Minneapolis, Minn. Men's and women's overcoats. Serial No. 486,006; Dec. 11. Class 39.

St. Louis Music Supply Co., St. Louis, Mo. Electronic sound equipment. Serial No. 484,435; Dec. 11. Class 21.

St. Regis Restaurant Corporation, New Orleans, La. Shrimp, fried or cooked, and lunches including shrimp, potatoes, and bread. Serial No. 480,805; Dec. 11. Class 46.

Santa Anita Potteries, Los Angeles, Calif. Pottery and dinnerware. Serial No. 486,278; Dec. 11. Class 30.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Appliance to measure the foot for length and width. Serial No. 486,068; Dec. 11. Class 26.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Adhesive bandages. Serial No. 487,054; Dec. 11. Class 44.

Schwartz, Sidney: *See*—
Lebow, Victor.

Sorensen and Company: *See*—
Sorensen, Garfield.

Sorensen, Garfield, doing business as Sorensen and Company, Los Angeles, Calif. Preparation for the treatment of anemias. Serial No. 486,173; Dec. 11. Class 6.

Spencer Turbine Company, The, Hartford, Conn. Machines for cleaning the sump of metal working machines. Serial No. 484,373; Dec. 11. Class 23.

Sperlonga, Peter, doing business as La-Lin Products, Long Island City, N. Y. Preparation for treating the hair. Serial No. 486,820; Dec. 11. Class 6.

Sport Products, Inc., Cincinnati, Ohio. Men's and boys' sport shirts, sport jackets, etc. Serial No. 480,532; Dec. 11. Class 39.

Spring-Air Company, Holland, Mich. Mattresses and box springs. Serial No. 485,607; Dec. 11. Class 32.

Spring-Air Company, Holland, Mich. Mattresses and box springs. Serial Nos. 485,609–10; Dec. 11. Class 32.

Spring-Air Company, Holland, Mich. Mattresses and box springs. Serial No. 485,612; Dec. 11. Class 32.

Standard Steel Spring Company, Corapolis, Pa. Protective surfaced ferrous or nonferrous metals. Serial No. 485,613; Dec. 11. Class 14.

Stationers' Guild of America, Philadelphia, Pa. Electric fans and electric desk lamps. Serial No. 476,889; Dec. 11. Class 21.

Stationers R S Service: *See*—
Green, Lester C.

Steck Company, The, Austin, Tex. Directory issued annually of aircraft engine and propeller parts. Serial No. 481,343; Dec. 11. Class 38.

Stewart-Warner Corporation, Chicago, Ill. Sprayers. Serial No. 478,479; Dec. 11. Class 23.

Superb Glove Company, The, Johnstown, N. Y. Men's, women's and children's gloves. Serial No. 486,395; Dec. 11. Class 39.

Triumph Hosiery Mills, Inc., New York, N. Y. Hosiery. Serial No. 486,632; Dec. 11. Class 39.

Tru Styl Golf Co.: *See*—
Fritz, William E.

Umbriago Corporation, New York, N. Y. Novelty dolls and doll heads. Serial No. 485,800; Dec. 11. Class 22.

United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. High temperature resisting articles, corrosion resistant articles, and corrosive chemical solids, etc. Serial No. 487,224; Dec. 11. Class 12.

Uregas Service, Inc., Moberly, Mo. Bottled gas. Serial No. 486,073; Dec. 11. Class 6.

Vandam, Albert H., Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 476,414; Dec. 11. Class 42.

Vandam, Albert H., Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 476,487; Dec. 11. Class 42.

Victor Tool Company, The, Reading, Pa. Edge cutting implements. Serial No. 484,471; Dec. 11. Class 23.

Virginia-Lincoln Corporation, Marion, Va. Aircraft towing targets. Serial No. 484,651; Dec. 11. Class 22.

Virginia-Lincoln Corporation, Marion, Va. Aircraft towing targets. Serial No. 485,802; Dec. 11. Class 22.

Vokar Corporation: *See*—
Electronic Products Manufacturing, Incorporated.

weir, harriette e: *See*—
Weir, Harriette E.

Weir, Harriette E., doing business as harriette e weir, St. Louis, Mo. Massage devices. Serial No. 480,937; Dec. 11. Class 44.

Western Pine Association, Portland, Oreg. Lumber, millwork, and lath. Serial No. 487,979; Dec. 11. Class 12.

White, Charles E., Salamanca, N. Y. Applicators for administering liquid medication. Serial No. 486,344; Dec. 11. Class 44.

Wishbow, N., & Raphaels Inc., New York, N. Y. Rayon piece goods. Serial No. 487,540; Dec. 11. Class 42.

Zilen, Charles M., doing business as Zilen Citrus Co., Riverside, Calif. Fresh citrus fruits. Serial No. 486,188; Dec. 11. Class 46.

Zilen Citrus Co.: *See*—
Zilen, Charles M.

## LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Chemotherapeutic agents of bactericidal or bacteriostatic activity. 418,272; Dec. 11; Serial No. 484,004; published Sept. 18, 1945. Class 6.

Aidmon, Max, doing business as Penslagum Co., Brooklyn, N. Y. Chewing gum fortified with penicillin. 418,234; Dec. 11; Serial No. 481,093; published Sept. 25, 1945. Class 6.

Allied Kid Company, Boston, Mass. Kid and morocco leather. 418,268; Dec. 11; Serial No. 483,950; published Oct. 2, 1945. Class 1.

Amalgamated Paint Company, New York, N. Y. Flat wall paints. 209,583; renewed Feb. 23, 1946. O. G. Dec. 11. Class 16.

Amalgamated Roofing Company, to The Logan-Long Company, Chicago, Ill. Prepared roofing shingles of fibrous material. 202,958; renewed Sept. 8, 1945. O. G. Dec. 11. Class 12.

Amalgamated Roofing Company, to The Logan-Long Company, Chicago, Ill. Prepared roofing in rolls and prepared roofing shingles of fibrous material. 202,959; renewed Sept. 8, 1945. O. G. Dec. 11. Class 12.



Amalgamated Roofing Company, to The Logan-Long Company, Chicago, Ill. Prepared roofing shingles of fibrous material. 203,285; renewed Sept. 15, 1945. O. G. Dec. 11. Class 12.

American Insignia Company, New York, N. Y. Insignia and emblems. 418,203; Dec. 11; Serial No. 474,845; published Sept. 25, 1945. Class 28.

American Waltham Watch Co., to Waltham Watch Company, Waltham, Mass. Mainsprings for watches. 48,775; re-renewed Jan. 16, 1946. O. G. Dec. 11. Class 27.

Armand Company, The, Des Moines, Iowa. Cleansing cream. 208,702; renewed Feb. 9, 1946. O. G. Dec. 11. Class 6.

Armand Company, The, Des Moines, Iowa. Face powder. 208,879; renewed Feb. 9, 1946. O. G. Dec. 11. Class 6.

Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's and boys' shirts. 418,209; Dec. 11; Serial No. 476,129; published Oct. 2, 1945. Class 39.

Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys' and children's underwear and knitted outerwear. 418,296; Dec. 11; Serial No. 484,817; published Oct. 2, 1945. Class 39.

"Automatic" Sprinkler Company of America, Youngstown, Ohio. Deluge sprinkler units, piping, valves, and sprinklers therefor. 418,196; Dec. 11; Serial No. 471,782; published Oct. 2, 1945. Class 13.

"Automatic" Sprinkler Company of America, Youngstown, Ohio. Heat actuated thermostats and sprinkler system control thermostats. 418,310; Dec. 11. Class 26.

Babbitt, B. T., Inc., Albany and New York, N. Y. Greeting cards. 418,301; Dec. 11; Serial No. 485,070; published Sept. 25, 1945. Class 38.

Babcock, A. P., Company, New York, N. Y., to A. P. Babcock Company, Rutherford, N. J. Face powders, face creams, face packs, etc. 208,792; renewed Feb. 9, 1946. O. G. Dec. 11. Class 6.

Bacon Banjo Co., Inc., The, Groton, Conn., to The Fred Gretsch Manufacturing Co., Brooklyn, N. Y. Pick for stringed musical instruments. 208,911; renewed Feb. 9, 1946; O. G. Dec. 11. Class 36.

Bennett Pumps Corporation, Muskegon, Mich., to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Grease buckets with pump attached. 206,703; renewed Dec. 8, 1945. O. G. Dec. 11. Class 23.

Bilton Machine Tool Company, The, Bridgeport, Conn., to Van Norman Company, Springfield, Mass. Machine tools and particularly milling machines, etc. 206,186; renewed Nov. 24, 1945. O. G. Dec. 11. Class 23.

Bird & Son, inc., East Walpole, Mass. Water-absorbing fibre mats. 418,211; Dec. 11; Serial No. 477,055; published Sept. 18, 1945. Class 50.

Blatz Brewing Company: *See*—
Valentin Blatz Brewing Co.

Breakstone Bros, Inc., to Breakstone Bros, Inc., New York, N. Y. Butter. 203,969; renewed Sept. 29, 1945. O. G. Dec. 11. Class 46.

British Medica Laboratories Limited, Bournemouth, England. Pharmaceutical preparations. 418,199; Dec. 11; Serial No. 472,972; published Sept. 18, 1945. Class 6.

Cain, John M., Hartford, Conn., and West Palm Beach, Fla. Liquid preparation. 418,217; Dec. 11; Serial No. 478,174; published Sept. 25, 1945. Class 6.

California Bottling Works, to M. S. Fishman, doing business as California Bottling Works, Los Angeles, Calif. Nonalcoholic, noncereal, maltless beverages. 200,261; renewed June 20, 1945. O. G. Dec. 11. Class 45.

Campana Corporation, Batavia, Ill. Lipstick. 418,214; Dec. 11; Serial No. 477,732; published Sept. 18, 1945. Class 6.

Campbell, Harry T., Sons' Corp., Townson, Md. Mined calcium stone, a crude mineral. 418,289; Dec. 11; Serial No. 484,614; published Sept. 25, 1945. Class 1.

Capacitron Company, The, Chicago, Ill. Electrical condensers and capacitors. 418,236; Dec. 11; Serial No. 481,571; published Sept. 25, 1945. Class 21.

Carson Pirie Scott & Company, Chicago, Ill. Men's and boys' nainsook athletic union suits. 206,287; renewed Nov. 24, 1945. O. G. Dec. 11. Class 39.

Carter's Ink Company, The, Boston, Mass., and New York, N. Y., to The Carter's Ink Company, Cambridge, Mass. Writing-inks and writing fluids. 48,946; re-renewed Jan. 16, 1946. O. G. Dec. 11. Class 11.

Carter's Ink Company, The, Boston, Mass., and New York, N. Y., to The Carter's Ink Company, Cambridge, Mass. Mucilages. 49,033; re-renewed Jan. 23, 1946. O. G. Dec. 11. Class 5.

Cattaraugus Cutlery Co., Little Valley, N. Y. Sheath knife. 209,517; renewed Feb. 23, 1946. O. G. Dec. 11. Class 23.

Chambers, Clarence H., doing business as Maupassant, Brooklyn, N. Y. Perfume, toilet water, talcum powder, etc. 418,225; Dec. 11; Serial No. 480,008; published Sept. 25, 1945. Class 6.

Chicago Pharmacal Company, Chicago, Ill. Nerve sedative and antispasmodic. 418,284; Dec. 11; Serial No. 484,391; published Sept. 25, 1945. Class 6.

Cifuentes y Compania, Habana, Cuba. Cigars. 418,237; Dec. 11; Serial No. 481,613; published Oct. 2, 1945. Class 17.

Columbia Eastern Corporation, New York, N. Y. Watches and clocks. 418,279–80; Dec. 11; Serial Nos. 484,192–3; published Sept. 25, 1945. Class 27.

Columbus Shirt Company, Chicago, Ill. Men's shirts and women's shirt waists. 209,484; renewed Feb. 23, 1946. O. G. Dec. 11. Class 39.

Commercial Shirt Co.: *See*—
Horowits, Oscar.

Commercial Shirt Corporation: *See*—
Horowitz, Oscar.

Compania Licorera Agabama, S. A., Habana, Cuba. Rum. 418,232; Dec. 11; Serial No. 480,742; published Sept. 25, 1945. Class 49.

Consolidated Cosmetics, Chicago, Ill. Face powder, lipstick, hand cream, etc. 418,273; Dec. 11; Serial No. 484,013; published Sept. 25, 1945. Class 6.

Consumers Merchandise Mart: *See*—
Richter & Phillips Co., The.

Continental Supply Company, The, Dallas, Tex. Reciprocating, centrifugal and rotary pumps, horizontal and vertical engines of Diesel or distillate type. 418,302; Dec. 11; Serial No. 485,265; published Oct. 2, 1945. Class 23.

Corn Products Refining Company, New York, N. Y. Monosaccharide derived by hydrolysis of polymers carbohydrate materials. 418,198; Dec. 11; Serial No. 472,415; published Oct. 2, 1945. Class 1.

Craig-California, James, Los Angeles, Calif. Dresses. 418,221; Dec. 11; Serial No. 479,424; published Oct. 2, 1945. Class 39.

Crescent Chemical Corporation, Philadelphia, Pa. Laundry sour. 418,261; Dec. 11; Serial No. 483,716; published Sept. 25, 1945. Class 6.

Crescent Manufacturing Co., Seattle, Wash. Flavoring extracts. 47,141; re-renewed Oct. 31, 1945. O. G. Dec. 11. Class 46.

Crown Cork & Seal Co.: *See*—
Peelle, Willis J.

Crown Cork & Seal Company, Inc.: *See*—
Peelle, Willis J.

Crystal Research Laboratories, Incorporated, Hartford, Conn. Crystals and crystal units. 418,297; Dec. 11; Serial No. 484,883; published Oct. 2, 1945. Class 21.

Davies, Rose & Company, Limited, Boston, Mass. Cough medicine. 208,885; renewed Feb. 9, 1946. O. G. Dec. 11; Class 6.

Dickinson, E. E., Co., The, Essex, Conn. Extract of witch-hazel. 209,362; renewed Feb. 23, 1946. O. G. Dec. 11. Class 6.

Dictaphone Corporation, Bridgeport, Conn. Phonographs, machines for phonographically recording, machines for phonographically reproducing, etc. 203,885; renewed Sept. 29, 1945. O. G. Dec. 11. Class 36.

Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing and record-shaving machines. 205,195; renewed Nov. 3, 1945. O. G. Dec. 11. Class 23.

Dixie Disinfecting Co., Dallas, Tex. Preparation for exterminating rats and mice. 418,288; Dec. 11; Serial No. 484,486; published Sept. 25, 1945. Class 6.

Dodge, F. W., Corporation, New York, N. Y. Daily construction news bulletin. 209,212; renewed Feb. 16, 1946. O. G. Dec. 11. Class 38.

Duarte-Monrovia Citrus Association, to Duarte-Monrovia Fruit Exchange, Duarte, Calif. Fresh citrous fruits. 209,257; renewed Feb. 16, 1946. O. G. Dec. 11. Class 46.

Duarte-Monrovia Fruit Exchange: *See*—
Duarte-Monrovia Citrus Association.

Duriron Company, Inc., The, Dayton, Ohio. Batteries and parts thereof, electroplating and electrolytic equipment, etc. 418,233; Dec. 11; Serial No. 480,744; published Sept. 25, 1945. Class 21.

Eastern Corporation, Brewer, Maine. Writing, printing, and papeterie papers. 418,192; Dec. 11; Serial No. 468,443; published Sept. 25, 1945. Class 37.

Elberle, Paul, Baltimore, Md. Hair tonic. 418,245; Dec. 11; Serial No. 482,368; published Sept. 19, 1945. Class 6.

Elars Products, Inc., also trading as Elgyn Products, Richmond, Va. Yeast and iron compound, natural fortified vitamin B complex with liver and iron, etc. 418,195; Dec. 11; Serial No. 471,473; published Sept. 25, 1945. Class 6.

Elgyn Products: *See*—
Elars Products, Inc.

Elliott, Irving C., Ione, Calif. Floor-conditioning composition. 418,309; Dec. 11. Class 16.

Elston, Edwin, Los Angeles, Calif. Sensitized photographic films. 418,290; Dec. 11; Serial No. 484,671; published Oct. 2, 1945. Class 26.

Empire State Wine Co., to R. C. Williams Wineries, Inc., Penn Yan, N. Y. Wine. 45,545; re-renewed Aug. 22, 1945. O. G. Dec. 11. Class 47.

Fashion Park, Inc., Rochester, N. Y. Coats, vests, pants, etc. 418,242; Dec. 11; Serial No. 482,139; published Sept. 25, 1945. Class 39.

Fashion Park, Inc., Rochester, N. Y. Men's coats, vests, pants, and overcoats. 418,243; Dec. 11; Serial No. 482,148; published July 17, 1945. Class 39.

Federal Electric Company, Inc., Chicago, Ill. Oil well drilling bits, wrenches, pipe threaders and trimmers, etc. 418,215; Dec. 11; Serial No. 477,924; published Sept. 25, 1945. Class 23.

Findlay & Battle, New York, N. Y.; Richmond, Va.; London, England; Paris, France; and Montreal, Quebec, Canada, to Glacier Metal Co., Richmond, Va. Anti-friction or Babbitt metal. 46,767; re-renewed Oct. 10, 1945. O. G. Dec. 11. Class 14.

Fishman, M. S.: *See*—
California Bottling Works.

Fiske, Jonathan P. B., Auburndale, Mass. Wax candles and glass cups for holding the same. 418,311; Dec. 11. Class 50.

Fleetwood Craftsmen, Inc., Fleetwood, Pa. Mattresses. 418,315; Dec. 11. Class 32.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 203,736–7; renewed Sept. 22, 1945. O. G. Dec. 11. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Fowler, Frederick V., doing business as Stanton Supply Co., Boston, Mass. Chamois and sponges. 418,210; Dec. 11; Serial No. 476,428; published Oct. 2, 1945. Class 1.

Fox, H., & Co., Brooklyn, N. Y. Non-alcoholic, maltless beverages. 418,248; Dec. 11; Serial No. 482,836; published Sept. 11, 1945. Class 45.

Franchon Company, The, to H. Linsk & Co., Philadelphia, Pa. Dresses. 209,473; renewed Feb. 23, 1946. O. G. Dec. 11. Class 39.

Garay Toiletries, Inc., New York, N. Y. Cologne, deodorant, and after-shave lotion. 418,269; Dec. 11; Serial No. 483,968; published Sept. 18, 1945. Class 6.

Garden Products Company: *See*—
Palmer, Edward C.

Geigy Company, Inc., New York, N. Y. Dispersing and flocculating chemical. 418,283; Dec. 11; Serial No. 484,342; published Sept. 25, 1945. Class 6.

General Cable Corporation; *See*—
Standard Underground Cable Company.

General Dairy Equipment, Inc., Minneapolis, Minn. Pasteurizers. 418,308; Dec. 11. Class 34.

Girdler Corporation, The, Louisville, Ky. Apparatus for producing high frequency electric currents, etc. 418,244; Dec. 11; Serial No. 482,322; published Sept. 25, 1945. Class 21.

Glacier Metal Co.: *See*—
Findlay & Battle.

Golden State Company, Ltd.: *See*—
Golden State Milk Products Company.

Golden State Milk Products Company, to Golden State Company, Ltd., San Francisco, Calif. Candy tablets. 207,066; renewed Dec. 15, 1945. O. G. Dec. 11. Class 46.

Goodyear Tire & Rubber Company, Inc., The, Akron, Ohio. Outboard motors. 418,298; Dec. 11; Serial No. 484,891; published Oct. 2, 1945. Class 23.

Goulard & Olena, Inc., New York, N. Y. Insecticides. 208,331; renewed Jan. 26, 1946. O. G. Dec. 11. Class 6.

Graef, Jean R., Inc., New York, N. Y. Watch movements and wrist and pocket watches. 418,275; Dec. 11; Serial No. 484,126; published Sept. 25, 1945. Class 27.

Grant Photo Products, Incorporated, New York, N. Y. Sensitized photographic paper. 418,303; Dec. 11; Serial No. 485,441; published Oct. 2, 1945. Class 26.

Gretsch, Fred, Manufacturing Co., The: *See*—
Bacon Banjo Co., Inc.

Guerlain Perfumery Corporation, The, Wilmington, Del., and New York, N. Y. Perfumes and toilet water. 418,200; Dec. 11; Serial No. 473,371; published June 26, 1945. Class 6.

Hamilton, William Irving, Inc., New York, N. Y. A combined handy information and memorandum. 418,228; Dec. 11; Serial No. 480,453; published Sept. 18, 1945. Class 38.

Harrower Laboratory, Inc., The, Glendale, Calif. Concentrated sterile solutions. 418,254; Dec. 11; Serial No. 483,266; published Sept. 25, 1945. Class 6.

Hecker, B., Company, New York, N. Y. Jewelry. 418,256; Dec. 11; Serial No. 483,373; published Oct. 2, 1945. Class 28.

Heddon's, James, Sons, Dowagiac, Mich. Fishing rods. 418,307; Dec. 11; Serial No. 486,715; published Oct. 2, 1945. Class 22.

Herlong, A. S., & Co., Leesburg, Fla. Fresh citrus fruits and fresh vegetables. 202,463; renewed Aug. 25, 1945. O. G. Dec. 11. Class 46.

Hillerich & Bradsby Co., Louisville, Ky. Sporting goods. 209,562; renewed Feb. 23, 1946. O. G. Dec. 11. Class 22.

Holt, Frank J., doing business as Nutrition Products Company, Aurora, Ill. Nutritional adjunct for young calves. 418,194; Dec. 11; Serial No. 470,266; published Sept. 25, 1945. Class 6.

Horowitz, Oscar, doing business as Commercial Shirt Co., to Commercial Shirt Corporation, New York, N. Y. Women's and children's dresses, women's slip-overs and bloomers; women's, men's, and children's knitted and textile underwear, etc. 208,903; renewed Feb. 9, 1946. O. G. Dec. 11. Class 39.

Illinois Crop Improvement Association, Urbana, Ill. Field seeds. 209,056; renewed Feb. 16, 1946. O. G. Dec. 11. Class 1.

International Safety Razor Corporation, Bloomfield, N. J. Razor blades. 209,510; renewed Feb. 23, 1946. O. G. Dec. 11. Class 23.

Interwoven Stocking Company: *See*—
Mettler, John W.

Italian-American Paste Co., Inc., San Francisco, Calif. Alimentary pastes. 207,528; renewed Jan. 5, 1946. O. G. Dec. 11. Class 46.

Jones, T. G. W., doing business as T. G. W. Jones Sons, Los Angeles, Calif. Preparation for use in the treatment of pyorrhea (alveolaris). 418,276; Dec. 11; Serial No. 484,171; published Sept. 25, 1945. Class 6.

Jones, T. G. W., Sons: *See*—
Jones, T. G. W.

Kantor Bottling Company: *See*—
Kantor, M.

Kantor, M., doing business as Kantor Bottling Company, Beloit, Wis. Nonalcoholic, noncereal, maltless beverages. 208,164; renewed Jan. 19, 1946. O. G. Dec. 11. Class 45.

Kem-Oil Products Company, Houston, Tex. Oil composition. 418,318; Dec. 11. Class 15.

Kentucky Distilleries & Warehouse Co., to National Distillers Products Corporation, New York, N. Y. Whisky. 208,929; renewed Feb. 9, 1946. O. G. Dec. 11. Class 49.

Kodak Mexicana, Ltd., Rochester, N. Y., and Mexico City, Mexico. Illustrated photographic magazines. 418,258; Dec. 11; Serial No. 483,624; published Sept. 25, 1945. Class 38.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Medicinal mineral oil. 418,193; Dec. 11; Serial No. 469,503; published Sept. 25, 1945. Class 6.

Lane Tobacco, Ltd., New York, N. Y. Smoking tobacco. 418,281; Dec. 11; Serial No. 484,205; published Sept. 25, 1945. Class 17.

Lawrence Laboratories, Brooklyn, N. Y. Shampoo and compounds for the treatment for removing dandruff, etc. 418,241; Dec. 11; Serial No. 482,108; published Sept. 18, 1945. Class 6.

Lax & Burgheimer Incorporated: *See*—
Mayer, M. & C.

Lederle Laboratories, Inc., New York, N. Y. Tyrothricin preparation. 418,264; Dec. 11; Serial No. 483,906; published Sept. 18, 1945. Class 6.

Lennard, Lee-Narvill & Co. Limited, Yorkshire, England. Perfumery, preparations for treatment of the hair, face powders, etc. 418,204; Dec. 11; Serial No. 475,061; published Sept. 13, 1945. Class 6.

Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. 418,246; Dec. 11; Serial No. 482,382; published Sept. 25, 1945. Class 6.

Lentheric, Incorporated, New York, N. Y. Perfumes and perfume preparations, toilet waters, etc. 418,260; Dec. 11; Serial No. 483,689; published Sept. 18, 1945. Class 6.

Le Sage Company, Dallas, Tex. Whiskey. 418,251; Dec. 11; Serial No. 483,072; published Sept. 11, 1945. Class 49.

Le Sonier, Inc., Boston, Mass. Perfumes, toilet waters, sachet powders, etc. 418,224; Dec. 11; Serial No. 479,884; published Sept. 18, 1945. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 418,305; Dec. 11; Serial No. 486,044; published Oct. 2, 1945. Class 2.

Lilly, Eli, and Company: *See*—
Lilly, Eli, & Company, The.

Lilly, Eli, & Company, The, to Eli Lilly and Company, Indianapolis, Ind. Preparation for disguising the bitter or disagreeable taste of medicines. 46,486; re-renewed Sept. 19, 1945. O. G. Dec. 11. Class 6.

Linsk, H., & Co.: *See*—
Franchon Company.

Lodi Canning Company, Lodi, Wis. Canned vegetables. 203,851; renewed Sept. 29, 1945. O. G. Dec. 11. Class 46.

Logan-Long Company, The: *See*—
Amalgamated Roofing Company.

Lowell & Grayson, Monrovia, Calif. Milling cutters. 418,212; Dec. 11; Serial No. 477,279; published Oct. 2, 1945. Class 23.

Lucas, Anne: *See*—
Lucas, Robert M.

Lucas, Robert M., to Anne Lucas, doing business as Robert M. Lucas Co., Chicago, Ill. Asphaltic-base paints for coating car roofs, etc. 206,985; renewed Dec. 15, 1945. O. G. Dec. 11. Class 16.

Lucas, Robert M., Co.: *See*—
Lucas, Robert M.

Macksoud, John, Company, New York, N. Y. Handkerchiefs. 418,262; Dec. 11; Serial No. 483,777; published Sept. 25, 1945. Class 39.

Mann, Leo, Boston, Mass. Composition consisting of concentrated essential oils, chemicals and solvents. 418,274; Dec. 11; Serial No. 484,054; published Sept. 18, 1945. Class 6.

Marshall, Walter S., doing business as V. J. Chemical Company, Raleigh, N. C. Preparation for the treatment of acne and face pimples, etc. 418,201; Dec. 11; Serial No. 473,609; published Sept. 25, 1945. Class 6.

Marta Cigar Co.: *See*—
Midulla, Biaggio.

Maupassant: *See*—
Chambers, Clarence H.

Mayer, M. & C., to Lax & Burgheimer Incorporated, New York, N. Y. Knit hosiery and underwear. 49,908–9; re-renewed Feb. 20, 1946. O. G. Dec. 11. Class 39.



McConnell Product Co.: *See*—
McConnell, William P.

McConnell, William P., doing business as McConnell Product Co., Washington, D. C. Toilet powder. 418,287; Dec. 11; Serial No. 484,537; published Sept. 25, 1945. Class 6.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Vitamin tablets. 418,231; Dec. 11; Serial No. 480,671; published Sept. 25, 1945. Class 6.

Mearl Corporation, The, New York, N. Y. Hydrolyzed protein containing iron salts. 418,293; Dec. 11; Serial No. 484,793; published Sept. 25, 1945. Class 6.

Medicinal Products Co., Philadelphia, Pa. General antiseptic and germicide and ointment. 418,259; Dec. 11; Serial No. 483,659; published Sept. 25, 1945. Class 6.

Mem Company, assignor to Mem Company, a co-partnership composed of Paul M. E. Mayer, Renee A. Mayer, and Stephen Herbert Mayer, New York, N. Y. Bath oil. 418,220; Dec. 11; Serial No. 479,393; published Sept. 18, 1945. Class 6.

Merritt Products Company, Cleveland, Ohio. Adhesive cement. 418,294; Dec. 11; Serial No. 484,794; published Oct. 2, 1945. Class 5.

Meta Cine Company, Chattanooga, Tenn. Vitamin-mineral-liver compound. 418,247; Dec. 11; Serial No. 482,810; published Sept. 25, 1945. Class 6.

Metallizing Company of America, Chicago, Ill. Chemical preparation. 418,213; Dec. 11; Serial No. 477,473; published Apr. 17, 1945. Class 6.

Mettler, John W., to Interwoven Stocking Company, New Brunswick, N. J. Knitted hosiery, knitted undershirts, and knitted drawers. 49,830; re-renewed Feb. 20, 1946. O. G. Dec. 11. Class 39.

Midulla, B., Company: *See*—
Midulla, Biagio.

Midulla, Biagio, doing business as B. Midulla Company, to Marta Cigar Co., New York, N. Y. Cigars. 209,384; renewed Feb. 23, 1946. O. G. Dec. 11. Class 17.

Monarch Governor Company, Detroit, Mich. Jigs, fixtures, chucks, etc. 418,208; Dec. 11; Serial No. 476,072; published Sept. 25, 1945. Class 23.

Monitor Equipment Corporation, New York, N. Y. Refrigerators. 418,306; Dec. 11; Serial No. 486,054; published Oct. 2, 1945. Class 31.

Moore, John Hudson, Inc., New York, N. Y. Cologne, after shaving lotion, hair lotion, etc. 418,223; Dec. 11; Serial No. 479,636; published Sept. 25, 1945. Class 6.

Mosso, C. A., Company, Chicago, Ill. Antiseptic preparation. 418,252; Dec. 11; Serial No. 483,077; published Sept. 18, 1945. Class 6.

Mountain View Fruit Association, Ontario, to Mountain View Fruit Association, Upland, Calif. Fresh citrous fruits. 209,191; renewed Feb. 16, 1946. O. G. Dec. 11. Class 46.

Muffet, Mary, Inc., St. Louis, Mo. Paper cardboard folders. 418,206; Dec. 11; Serial No. 475,447; published Sept. 25, 1945. Class 37.

National Carbon Company, Inc., New York, N. Y. Carbon electrodes and graphite electrodes. 418,218; Dec. 11; Serial No. 478,788; published Oct. 2, 1945. Class 21.

National Distillers Products Corporation: *See*—
Kentucky Distilleries & Warehouse Co.

National Foundry Sand Co., Detroit, Mich. Ground natural rock. 418,285; Dec. 11; Serial No. 484,420; published Oct. 2, 1945. Class 1.

National Lead Company, Sayreville, N. J., and New York, N. Y. Composition containing a soluble salt. 418,202; Dec. 11; Serial No. 473,998; published Sept. 25, 1945. Class 1.

Nedick's Stores, Inc., New York, N. Y. Nonalcoholic, noncereal, maltless beverages and concentrates and syrups for the manufacture thereof. 418,265; Dec. 11; Serial No. 483,912; published Sept. 18, 1945. Class 45.

Nelson Knitting Company, Rockford, Ill. Hosiery. 209,230; renewed Feb. 16, 1946. O. G. Dec. 11. Class 39.

Niederer, Otto, Sons, Inc., Titusville, N. J. Apparatus for candling, grading, and handling eggs. 418,263; Dec. 11; Serial No. 483,868; published Oct. 2, 1945. Class 26.

Nutrition Products Company: *See*—
Holt, Frank J.

Oakes & Co., also doing business as Tru-Test, Chicago, Ill. Lubricating oils and greases, gasoline, kerosene, etc. 418,230; Dec. 11; Serial No. 480,610; published Sept. 25, 1945. Class 15.

Okonite Company, Limited, The, New York, N. Y., to The Okonite Company, Passaic, N. J. Electric conductors covered with India-rubber. 46,162; re-renewed Sept. 5, 1945. O. G. Dec. 11. Class 21.

Old Reading Brewery Inc., The, Reading, Pa. Beer. 418,190; Dec. 11; Serial No. 463,302; published Sept. 11, 1945. Class 48.

Osborn Manufacturing Company, The, Cleveland, Ohio. Brushes used as machine accessories, brushes made from wire for mounting upon shafting, rotary brushes, etc. 418,222; Dec. 11; Serial No. 479,440; published Sept. 25, 1945. Class 23.

Pacific Coast Marine Fireman, Oilers, Watertenders & Wipers' Association, San Francisco, Calif. Comic strips. 418,266; Dec. 11; Serial No. 483,916; published Sept. 18, 1945. Class 38.

Palmer, Edward C., doing business as Garden Products Company, St. Louis, Mo. Insecticide. 418,207; Dec. 11; Serial No. 475,584; published Sept. 18, 1945. Class 6.

Patent Cereals Company, The, Geneva, N. Y. Wall size. 209,151; renewed Feb. 16, 1946. O. G. Dec. 11. Class 5.

Peelle, Willis J., doing business as Real Seal Co., Chicago, Ill., to Crown Cork & Seal Company, Inc., Baltimore, Md. Jar caps or closures. 209,183; renewed Feb. 16, 1946. O. G. Dec. 11. Class 50.

Pennsylvania Industrial Chemical Corporation, Clairton, Pa. Hydrocarbon resins. 418,277; Dec. 11; Serial No. 484,178; published Sept. 25, 1945. Class 1.

Pensilagum Co.: *See*—
Aldmon, Max.

Pierce, S. S., Co., Boston, Mass. Cigars. 49,391; re-renewed Feb. 6, 1946. O. G. Dec. 11. Class 17.

Plastic Engineering, Inc., Cleveland, Ohio. Molded thermo-plastic whistles. 418,216; Dec. 11; Serial No. 478,083; published Oct. 2, 1945. Class 22.

Plastic Industries, New York, N. Y. Plastic compositions. 418,317; Dec. 11. Class 1.

Potter Drug & Chemical Corporation, Boston, to Potter Drug & Chemical Corporation, Malden, Mass. Medicated and perfumed soap. 49,675; re-renewed Feb. 13, 1946. O. G. Feb. 11. Class 4.

Premium Service Co. Inc., The, New York, N. Y. Periodical. 418,299; Dec. 11; Serial No. 484,974; published Sept. 25, 1945. Class 38.

Prince Matchabelli, Inc., New York, N. Y. Bath oil. 418,253; Dec. 11; Serial No. 483,116; published Sept. 18, 1945. Class 6.

Purity Chemical Products Company, Santa Rosa, Calif. Poultry disinfectants and insecticides, a digestive aid and intestinal antiseptic for poultry, etc. 206,830; renewed Dec. 8, 1945. O. G. Dec. 11. Class 6.

Ramsey-Bennett Company, Cleveland, Ohio. Beverage coolers, refrigerators, and parts thereof. 418,313; Dec. 11. Class 31.

Reliance Manufacturing Company, Chicago, Ill. Work shirts. 204,798; renewed Oct. 27, 1945. O. G. Dec. 11. Class 39.

Rheinstrom, Marjorie G., Great Neck, N. Y. Toe covers. 418,240; Dec. 11; Serial No. 481,859; published Sept. 25, 1945. Class 39.

Rice-Stix Dry Goods Company, St. Louis, Mo. Men's and boys' wearing apparel. 209,267; renewed Feb. 16, 1946. O. G. Dec. 11. Class 39.

Richter & Phillips Co., The, doing business as Consumers Merchandise Mart, Cincinnati, Ohio. Bracelets and other articles of jewelry. 418,278; Dec. 11; Serial No. 484,182; published Oct. 2, 1945. Class 28.

Roburn Sportswear Corp., New York, N. Y. Men's and boys' dress and sport shirts. 418,291; Dec. 11; Serial No. 484,705; published Oct. 2, 1945. Class 39.

Rotary Shirt Co., New York, N. Y. Men's and boys' dress and sport shirts. 418,292; Dec. 11; Serial No. 484,707; published Oct. 2, 1945. Class 39.

Rudolph, Sergee, New York, N. Y. Ladies' and misses' dresses. 418,255; Dec. 11; Serial No. 483,348; published Oct. 2, 1945. Class 39.

Rumford Chemical Works, Providence, to Rumford Chemical Works, Rumford, R. I. Mouldset blocks. 203,552; renewed Sept. 22, 1945. O. G. Dec. 11. Class 12.

Sauer, C. F., Company, The, Richmond, Va. Medicinal preparation. 202,172; renewed Aug. 18, 1945. O. G. Dec. 11. Class 6.

Sayles Finishing Plants, Inc., to Sayles Finishing Plants, Inc., Saylesville, R. I. Cotton piece goods. 209,482; renewed Feb. 23, 1946. O. G. Dec. 11. Class 42.

Scholdt, Adam, Brewing Company, Norristown, Pa. Beer. 418,270; Dec. 11; Serial No. 483,987; published Sept. 18, 1945. Class 48.

Schering & Glatz, Inc., New York, N. Y. Cholagogue evacuant. 418,197; Dec. 11; Serial No. 471,959; published Oct. 24, 1944. Class 6.

Seeman Brothers, Inc., New York, N. Y. Fruit juices. 418,229; Dec. 11; Serial No. 480,474; published Sept. 18, 1945. Class 45.

Seven Up Company, The, St. Louis, Mo. Carbonated, nonalcoholic, non-cereal maltless beverages. 418,191; Dec. 11; Serial No. 465,582; published Sept. 11, 1945. Class 45.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Oscillating, rotating, and vibrating shuttle or looper sewing-machines and their parts and attachments. 49,599; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machines containing shuttles or loopers. 49,600; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine stands. 49,601; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Machines for sewing either a single or multiple thread chain-stitch and their parts and attachments. 49,602; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machines and their parts and attachments. 49,603; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machines and their parts and attachments. 49,604–5; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 23.

Smith, James P., & Company, to James P. Smith & Company, Inc., New York, N. Y. Olives and paprika. 201,927; renewed Aug. 11, 1945. O. G. Dec. 11. Class 46.

Smith, James P., & Company, to James P. Smith & Company, Inc., New York, N. Y. Cherries, marrons in sirup, marrons glacés, etc. 202,136; renewed Aug. 18, 1945. O. G. Dec. 11. Class 46.

Smith, James P., & Company, to James P. Smith & Company, Inc., New York, N. Y. Imported French castile soap. 206,138; renewed Nov. 24, 1945. O. G. Dec. 11. Class 4.

Smith, James P., & Company, Inc.: *See*—
Smith, James P., & Company.

Sonoral Laboratories: *See*—
Tausig, Jack J.

Sound Equipment Corporation of California, Glendale, Calif. Electric soldering irons. 417,314; Dec. 11. Class 21.

Specific Pharmaceuticals, Inc., New York, N. Y. Histidine ascorbic acid ampule injection. 418,295; Dec. 11; Serial No. 484,812; published Sept. 25, 1945. Class 6.

Standard Chemical Company, Natick, Mass. Chemical composition. 418,219; Dec. 11; Serial No. 479,053; published Sept. 25, 1945. Class 6.

Standard Underground Cable Company, Pittsburgh, Pa., to General Cable Corporation, New York, N. Y. Insulating compound. 49,876; re-renewed Feb. 20, 1946. O. G. Dec. 11. Class 21.

Stanton Supply Co.: *See*—
Fowler, Frederick V.

Stein, S., & Co., to S. Stein & Co., Inc., New York, N. Y. Woolen goods in the piece, and in cut lengths. 202,532; renewed Aug. 25, 1945. O. G. Dec. 11. Class 42.

Stein, S., & Co., Inc.: *See*—
Stein, S., & Co.

Sterling Remedy Company, Jersey City, N. J. Medicine for tobacco habit and chronic constipation. 208,720; renewed Feb. 9, 1946. O. G. Dec. 11. Class 6.

Stofer, Er. S., Kansas City, Mo. Duck calls. 418,316; Dec. 11. Class 22.

Strom, Frederic H., New York, N. Y. Natural birth control calendars. 418,257; Dec. 11; Serial No. 483,389; published Sept. 25, 1945. Class 38.

Submarine Signal Company: *See*—
Submarine Signal Corporation.

Submarine Signal Corporation, Wilmington, Del., and Boston, to Submarine Signal Company, Boston, Mass. Apparatus for measuring distances, and for determining depths of water and soundings. 205,312; renewed Nov. 3, 1945. O. G. Dec. 11. Class 26.

Sweetman, George A., Estancia, N. Mex. Preparation for use in the treatment of snake bites. 418,250; Dec. 11; Serial No. 483,011; published Sept. 18, 1945. Class 6.

Tausig, Jack J., doing business as Sonoral Laboratories, New York, N. Y. Hypodermic solution. 418,235; Dec. 11; Serial No. 481,497; published Sept. 25, 1945. Class 6.

Toledo General Manufacturing Company, The, Toledo, Ohio. Drill presses. 418,300; Dec. 11; Serial No. 484,989; published Oct. 2, 1945. Class 23.

Tru-Test: *See*—
Oakes & Co.

Tubular Rivet and Stud Company: *See*—
Tubular Rivet & Stud Company.

Tubular Rivet & Stud Company, Boston, to Tubular Rivet and Stud Company, Wollaston, Mass. Rivets. 45,490; re-renewed Aug. 22, 1945. O. G. Dec. 11. Class 13.

Tuttle Law Print: *See*—
Tuttle, William S.

Tuttle, William S., doing business as Tuttle Law Print, Rutland, Vt. Typewriter paper. 209,178; renewed Feb. 16, 1946. O. G. Dec. 11. Class 37.

United States War Department, Washington, D. C. Comic strip. 418,271; Dec. 11; Serial No. 483,998; published Sept. 18, 1945. Class 38.

V. J. Chemical Company: *See*—
Marshall, Walter S.

Valentin Blatz Brewing Co., to Blatz Brewing Company, Milwaukee, Wis. Bottled lager-beer. 49,804; re-renewed Feb. 20, 1946. O. G. Dec. 11. Class 48.

Van Norman Company: *See*—
Bilton Machine Tool Company.

Van Raalte Company, Inc., New York, N. Y. Women's, misses', and children's underwear. 418,282; Dec. 11; Serial No. 484,281; published Sept. 25, 1945. Class 39.

Victaulic Company, Limited, London, England. Pipes and tubes, joints for pipes and tubes; valve, pipe and tube fittings; etc. 198,491; renewed May 19, 1945. O. G. Dec. 11. Class 13.

Wakem & McLaughlin, Incorporated, Chicago, Ill. Rum. 418,189; Dec. 11; Serial No. 462,694; published Nov. 9, 1943. Class 49.

Waldron & Company, Inc., Philadelphia, Pa. Precious stones. 418,205; Dec. 11; Serial No. 475,349; published July 3, 1945. Class 28.

Wallace Laboratories, Inc., New Brunswick, N. J. Liver extract product. 418,267; Dec. 11; Serial No. 483,945; published Sept. 25, 1945. Class 6.

Waltham Watch Company: *See*—
American Waltham Watch Co.

Western Foundry Sand Company, Seattle, Wash. Abrasive. 418,312; Dec. 11. Class 4.

Williams, R. C., Wineries, Inc.: *See*—
Empire State Wine Co.

Wilson Brothers, Chicago, Ill. Men's dress and sport shirts. 418,286; Dec. 11; Serial No. 484,434; published Sept. 25, 1945. Class 39.

Witco Chemical Company, Chicago, Ill. Gas carbon black. 418,226; Dec. 11; Serial No. 480,263; published Oct. 2, 1945. Class 1.

Witco Chemical Company, Chicago, Ill. Gas carbon black. 418,227; Dec. 11; Serial No. 480,265; published Oct. 2, 1945. Class 1.

Wolf & Dessauer, Fort Wayne, Ind. Paper bags, folding cardboard boxes, etc. 418,319; Dec. 11. Class 2.

Wood, E. K., Lumber Company, San Francisco, Calif. Rough and finish lumber, wood shingles, sash and doors, etc. 209,218; renewed Feb. 16, 1946. O. G. Dec. 11. Class 12.

Wood, John, Manufacturing Company, Inc.: *See*—
Bennett Pumps Corporation.

Wright, E. T., & Co., to E. T. Wright & Co., Incorporated, Rockland, Mass. Leather boots and shoes. 45,772; re-renewed Aug. 29, 1945. O. G. Dec. 11. Class 39.

Wright, E. T., & Co., Incorporated: *See*—
Wright, E. T., & Co.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Caustic soda composition. 418,238–9; Dec. 11; Serial Nos. 481,818–19; published Sept. 18, 1945. Class 6.

Young, Richard, Company, New York, N. Y. Tanned sheepskins. 49,725; re-renewed Feb. 13, 1946. O. G. Dec. 11. Class 1.

Zell Bros., Portland, Oreg. Sterling silver knives, forks, spoons, etc. 418,249; Dec. 11; Serial No. 482,862; published Oct. 2, 1945. Class 28.

Zuckerman, Samuel E., New York, N. Y. Women's coats, suits, and dresses. 418,304; Dec. 11; Serial No. 485,520; published Oct. 2, 1945. Class 39.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Carbon black, Gas. Witco Chemical Company. 418,226; Dec. 11; Serial No. 480,263; published Oct. 2, 1945.

Carbon black, Gas. Witco Chemical Company. 418,227; Dec. 11; Serial No. 480,265; published Oct. 2, 1945.

Chamois and sponges. F. V. Fowler. 418,210; Dec. 11; Serial No. 476,428; published Oct. 2, 1945.

Composition containing a soluble salt. National Lead Company. 418,202; Dec. 11; Serial No. 473,998; published Sept. 25, 1945.

Leather, Kid and morocco. Allied Kid Company. 418,268; Dec. 11; Serial No. 483,950; published Oct. 2, 1945.

Monosaccharide derived by hydrolysis of polymers carbohydrate materials. Corn Products Refining Company. 418,198; Dec. 11; Serial No. 472,415; published Oct. 2, 1945.

Plastic compositions. Plastic Industries. 418,317; Dec. 11.

Resins, Hydrocarbon. Pennsylvania Industrial Chemical Corporation. 418,277; Dec. 11; Serial No. 484,178; published Sept. 25, 1945.

Rock, Ground natural. National Foundry Sand Co. 418,285; Dec. 11; Serial No. 484,420; published Oct. 2, 1945.

Seeds, Field. Illinois Crop Improvement Association. 209,056; renewed Feb. 16, 1946. O. G. Dec. 11.

Sheepskins, Tanned. Richard Young Company. 49,725; re-renewed Feb. 13, 1946. O. G. Dec. 11.

Stone, a crude mineral, Mined calcium. Harry T. Campbell Sons' Corp. 418,289; Dec. 11; Serial No. 484,614; published Sept. 25, 1945.

## CLASS 2

Bags, folding cardboard boxes, etc., Paper. Wolf & Dessauer. 418,319; Dec. 11.

Cases, compacts and lipstick holders, Vanity. Les Parfums de Dana, Inc. 418,305; Dec. 11; Serial No. 486,044; published Oct. 2, 1945.

## CLASS 4

Abrasive. Western Foundry Sand Company. 418,312; Dec. 11.



Soap, Imported French castile. James P. Smith & Company. 206,138; renewed Nov. 24, 1945. O. G. Dec. 11.

Soap, Medicated and perfumed. Potter Drug & Chemical Corporation. 49,675; re-renewed Feb. 13, 1946. O. G. Dec. 11.

## CLASS 5

Cement, Adhesive. Merritt Products Company. 418,294; Dec. 11; Serial No. 484,794; published Oct. 2, 1945.

Mucilages. Carter's Ink Company. 49,033; re-renewed Jan. 23, 1946. O. G. Dec. 11.

Size, Wall. Patent Cereals Company. 209,151; renewed Feb. 16, 1946. O. G. Dec. 11.

## CLASS 6

Adjunct for young calves, Nutritional. F. J. Holt. 418,194; Dec. 11; Serial No. 470,266; published Sept. 25, 1945.

Antiseptic and germicide and ointment, General. Medicinal Products Co. 418,259; Dec. 11; Serial No. 483,659; published Sept. 25, 1945.

Antiseptic preparation. C. A. Mosso Company. 418,252; Dec. 11; Serial No. 483,977; published Sept. 18, 1945.

Chemical composition. Standard Chemical Company. 418,219; Dec. 11; Serial No. 479,053; published Sept. 25, 1945.

Chemical, Dispersing and flocculating. Geigy Company, Inc. 418,283; Dec. 11; Serial No. 484,342; published Sept. 25, 1945.

Chemical preparation. Metallizing Company of America. 418,213; Dec. 11; Serial No. 477,473; published Apr. 17, 1945.

Chemotherapeutic agents of bactericidal or bacteriostatic activity. Abbott Laboratories. 418,272; Dec. 11; Serial No. 484,004; published Sept. 18, 1945.

Cholagogue evacuant. Schering & Glatz, Inc. 418,197; Dec. 11; Serial No. 471,959; published Oct. 24, 1944.

Cologne, after shaving lotion, hair lotion, etc. John Hudson Moore, Inc. 418,223; Dec. 11; Serial No. 479,636; published Sept. 25, 1945.

Cologne, deodorant and after shave lotion. Garay toiletries, Inc. 418,269; Dec. 11; Serial No. 483,968; published Sept. 18, 1945.

Composition consisting of concentrated essential oils, chemicals and solvents. L. Mann. 418,274; Dec. 11; Serial No. 484,054; published Sept. 18, 1945.

Cream, Cleansing. Armand Company. 208,702; renewed Feb. 9, 1946. O. G. Dec. 11.

Disinfectants and insecticides, a digestive aid and intestinal antiseptic for poultry, etc., Poultry. Purity Chemical Products Company. 206,830; renewed Dec. 8, 1945. O. G. Dec. 11.

Gum fortified with penicillin, Chewing. M. Aidmon. 418,234; Dec. 11; Serial No. 481,093; published Sept. 25, 1945.

Histidine ascorbic acid ampule injection. Specific Pharmaceuticals, Inc. 418,295; Dec. 11; Serial No. 484,812; published Sept. 25, 1945.

Insecticide. E. C. Palmer. 418,207; Dec. 11; Serial No. 475,584; published Sept. 18, 1945.

Insecticides. Goulard & Olena, Inc. 208,331; renewed Jan. 26, 1946. O. G. Dec. 11.

Lipstick. Campana Corporation. 418,214; Dec. 11; Serial No. 477,732; published Sept. 18, 1945.

Liquid preparation. J. M. Cain. 418,217; Dec. 11; Serial No. 478,174; published Sept. 25, 1945.

Liver extract product. Wallace Laboratories, Inc. 418,267; Dec. 11; Serial No. 483,945; published Sept. 25, 1945.

Medicinal preparation. C. F. Sauer Company. 202,172; renewed Aug. 18, 1945. O. G. Dec. 11.

Medicine, Cough. Davies, Rose & Company, Limited. 208,885; renewed Feb. 9, 1946. O. G. Dec. 11.

Medicine for tobacco habit and chronic constipation. Sterling Remedy Company. 208,720; renewed Feb. 9, 1946. O. G. Dec. 11.

Mineral oil, Medicinal. Kroger Grocery & Baking Company. 418,193; Dec. 11; Serial No. 469,503; published Sept. 25, 1945.

Oil, Bath. Mem Company. 418,220; Dec. 11; Serial No. 479,393; published Sept. 18, 1945.

Oil, Bath. Prince Matchabelli, Inc. 418,253; Dec. 11; Serial No. 483,116; published Sept. 18, 1945.

Perfume, toilet water, talcum powder, etc. C. H. Chambers. 418,225; Dec. 11; Serial No. 480,008; published Sept. 25, 1945.

Perfumery, preparations for treatment of the hair, face powder, etc. Lennard, Lee-Narvill & Co. Limited. 418,204; Dec. 11; Serial No. 475,061; published Sept. 18, 1945.

Perfumes and perfume preparations, toilet waters, etc. Lentheric, Incorporated. 418,260; Dec. 11; Serial No. 483,689; published Sept. 18, 1945.

Perfumes, and toilet water. Guerlain Perfumery Corporation. 418,200; Dec. 11; Serial No. 473,371; published June 26, 1945.

Perfumes, toilet waters, and cosmetic creams. Lentheric, Incorporated. 418,246; Dec. 11; Serial No. 482,382; published Sept. 25, 1945.

Perfumes, toilet waters, sachet powders, etc. Le Sonier, Inc. 418,224; Dec. 11; Serial No. 479,884; published Sept. 18, 1945.

Pharmaceutical preparations. British Medica Laboratories Limited. 418,199; Dec. 11; Serial No. 472,972; published Sept. 18, 1945.

Powder, Face. Armand Company. 208,879; renewed Feb. 9, 1946. O. G. Dec. 11.

Powder, lipstick, hand cream, etc., Face. Consolidated Cosmetics. 418,273; Dec. 11; Serial No. 484,013; published Sept. 25, 1945.

Powder, Toilet. W. P. McConnell. 418,287; Dec. 11; Serial No. 484,537; published Sept. 25, 1945.

Powders, face creams, face packs, etc., Face. A. P. Babcock Company. 208,792; renewed Feb. 9, 1946. O. G. Dec. 11.

Preparation for disguising the bitter or disagreeable taste of medicine. Eli Lilly & Company. 46,486; re-renewed Sept. 10, 1945. O. G. Dec. 11.

Preparation for exterminating rats and mice. Dixie Disinfecting Co. 418,288; Dec. 11; Serial No. 484,486; published Sept. 25, 1945.

Preparation for the treatment of acne and face pimples, etc. W. S. Marshall. 418,201; Dec. 11; Serial No. 473,609; published Sept. 25, 1945.

Preparation for use in the treatment of pyorrhea (alveolaris). T. G. W. Jones. 418,276; Dec. 11; Serial No. 484,171; published Sept. 25, 1945.

Preparation for use in the treatment of snake bites. G. A. Sweetman. 418,250; Dec. 11; Serial No. 483,011; published Sept. 18, 1945.

Protein containing iron salts, Hydrolyzed. Mearl Corporation. 418,293; Dec. 11; Serial No. 484,793; published Sept. 25, 1945.

Sedative and antispasmodic, Nerve. Chicago Pharmacal Company. 418,284; Dec. 11; Serial No. 484,391; published Sept. 25, 1945.

Shampoo and compounds for the treatment for removing dandruff, etc. Lawrence Laboratories. 418,241; Dec. 11; Serial No. 482,108; published Sept. 18, 1945.

Soda composition, Caustic. Wyandotte Chemicals Corporation. 418,238–9; Dec. 11; Serial Nos. 481,818–19; published Sept. 18, 1945.

Solution, Hypodermic. J. J. Tausig. 418,235; Dec. 11; Serial No. 481,497; published Sept. 25, 1945.

Sour, Laundry. Crescent Chemical Corporation. 418,261; Dec. 11; Serial No. 483,716; published Sept. 25, 1945.

Sterile solutions, Concentrated. Harrower Laboratory, Inc. 418,254; Dec. 11; Serial No. 483,266; published Sept. 25, 1945.

Tablets, Vitamin. McNeil Laboratories, Incorporated. 418,231; Dec. 11; Serial No. 480,671; published Sept. 25, 1945.

Tonic, Hair. P. Elberle. 418,245; Dec. 11; Serial No. 482,368; published Sept. 18, 1945.

Tyrothricin preparation. Lederle Laboratories, Inc. 418,264; Dec. 11; Serial No. 483,906; published Sept. 18, 1945.

Vitamin-mineral-liver compound. Meta Cine Company. 418,247; Dec. 11. Serial No. 482,810; published Sept. 25, 1945.

Witch-hazel, Extract of. E. E. Dickinson Co. 209,362; renewed Feb. 23, 1946. O. G. Dec. 11.

Yeast and iron compound, natural fortified vitamin B complex with liver and iron, etc. Elars Products, Inc. 418,195; Dec. 11; Serial No. 471,473; published Sept. 25, 1945.

## CLASS 11

Writing inks and writing fluids. Carter's Ink Company. 48,946; re-renewed Jan. 16, 1946. O. G. Dec. 11.

## CLASS 12

Blocks, Mouldset. Rumford Chemical Works. 203,552; renewed Sept. 22, 1945. O. G. Dec. 11.

Lumber, wood shingles, sash and doors, etc., Rough and finish. E. K. Wood Lumber Company. 209,218; renewed Feb. 16, 1946. O. G. Dec. 11.

Roofing in rolls and prepared roofing shingles of fibrous material, Prepared. Amalgamated Roofing Company. 202,959; renewed Sept. 8, 1945. O. G. Dec. 11.

Roofing shingles of fibrous material, Prepared. Amalgamated Roofing Company. 202,958; renewed Sept. 8, 1945. O. G. Dec. 11.

Roofing shingles of fibrous material, Prepared. Amalgamated Roofing Company. 203,285; renewed Sept. 15, 1945. O. G. Dec. 11.

## CLASS 13

Pipes and tubes, joints for pipes and tubes; valve, pipe and tube fittings; etc. Victaulic Company, Limited. 198,491; renewed May 19, 1945. O. G. Dec. 11.

Rivets. Tubular Rivet & Stud Company. 45,490; re-renewed Aug. 22, 1945. O. G. Dec. 11.

Sprinkler units, piping, valves and sprinklers therefor, Deluge. "Automatic" Sprinkler Company of America. 418,196; Dec. 11; Serial No. 471,782; published Oct. 2, 1945.

## CLASS 14

Metal, Antifriction or Babbitt. Findlay & Battle. 46,767; re-renewed Oct. 10, 1945. O. G. Dec. 11.

CLASS 15

Oil composition. Kem-Oil Products Company. 418,318; Dec. 11.
Oils and greases, gasoline, kerosene, etc., Lubricating. Oakes & Co. 418,230; Dec. 11; Serial No. 480,610; published Sept. 25, 1945.

CLASS 16

Floor-conditioning composition. I. C. Elloitt. 418,309; Dec. 11.
Paints, Flat wall. Amalgamated Paint Company. 209,583; renewed Feb. 23, 1946. O. G. Dec. 11.
Paints for coating car roofs, etc., Asphaltic-base. R. M. Lucas. 206,985; renewed Dec. 15, 1945. O. G. Dec. 11.

CLASS 17

Cigars. Cifuentes y Compania. 418,237; Dec. 11; Serial No. 481,613; published Oct. 2, 1945.
Cigars. B. Midulla. 209,384; renewed Feb. 23, 1946. O. G. Dec. 11.
Cigars. S. S. Pierce Co. 49,391; re-renewed Feb. 6, 1946. O. G. Dec. 11.
Tobacco, Smoking. Lane Tobacco, Ltd. 418,281; Dec. 11; Serial No. 484,205; published Sept. 25, 1945.

CLASS 21

Apparatus for producing high frequency electric currents, etc. Girdler Corporation. 418,244; Dec. 11; Serial No. 482,322; published Sept. 25, 1945.
Batteries and parts thereof, electroplating and electrolytic equipment, etc. Duriron Company, Inc. 418,233; Dec. 11; Serial No. 480,744; published Sept. 25, 1945.
Condensers and capacitors, Electrical. Capacitron Company. 418,236; Dec. 11; Serial No. 481,571; published Sept. 25, 1945.
Crystals and crystal units. Crystal Research Laboratories, Incorporated. 418,297; Dec. 11; Serial No. 484,883; published Oct. 2, 1945.
Electric conductors covered with India-rubber. Okonite Company, Limited. 46,162; re-renewed Sept. 5, 1945. O. G. Dec. 11.
Electric soldering irons. Sound Equipment Corporation of California. 417,314; Dec. 11.
Electrodes and graphite electrodes, Carbon. National Carbon Company, Inc. 418,218; Dec. 11; Serial No. 478,788; published Oct. 2, 1945.
Insulating compound. Standard Underground Cable Company. 49,876; re-renewed Feb. 20, 1946. O. G. Dec. 11.

CLASS 22

Duck calls. Er. S. Stofer. 418,316; Dec. 11.
Rods, Fishing. James Heddon's Sons. 418,307; Dec. 11; Serial No. 486,715; published Oct. 2, 1945.
Sporting goods. Hillerich & Bradsby Co. 209,562; renewed Feb. 23, 1946. O. G. Dec. 11.
Whistles, Molded thermo-plastic. Plastic Engineering, Inc. 418,216; Dec. 11; Serial No. 478,083; published Oct. 2, 1945.

CLASS 23

Bits, wrenches, pipe threaders and trimmers, etc., Oil well drilling. Federal Electric Company, Inc. 418,215; Dec. 11; Serial No. 477,924; published Sept. 25, 1945.
Brushes used as machine accessories, brushes made from wire for mounting upon shafting, rotary brushes, etc. Osborn Manufacturing Company. 418,222; Dec. 11; Serial No. 479,440; published Sept. 25, 1945.
Cutters, Milling. Lowell & Grayson. 418,212; Dec. 11; Serial No. 477,279; published Oct. 2, 1945.
Grease buckets with pump attached. Bennett Pumps Corporation. 206,703; renewed Dec. 8, 1945. O. G. Dec. 11.
Jigs, fixtures, chucks, etc. Monarch Governor Company. 418,208; Dec. 11; Serial No. 476,072; published Sept. 25, 1945.
Knife, Sheath. Cattaraugus Cutlery Co. 209,517; renewed Feb. 23, 1946. O. G. Dec. 11.
Machine tools and particularly milling machines, etc. Bilton Machine Tool Company. 206,186; renewed Nov. 24, 1945. O. G. Dec. 11.
Machines for sewing either a single or multiple thread chain-stitch and their parts and attachments. Singer Manufacturing Company. 49,602; re-renewed Feb. 13, 1946. O. G. Dec. 11.
Motors, Outboard. Goodyear Tire & Rubber Company, Inc. 418,298; Dec. 11; Serial No. 484,891; published Oct. 2, 1945.
Presses, Drill. Toledo General Manufacturing Company. 418,300; Dec. 11; Serial No. 484,989; published Oct. 2, 1945.
Pumps, horizontal and vertical engines of Diesel or distillate type, Reciprocating, centrifugal and rotary. Continental Supply Company. 418,302; Dec. 11; Serial No. 485,265; published Oct. 2, 1945.
Razor blades. International Safety Razor Corporation. 209,510; renewed Feb. 23, 1946. O. G. Dec. 11.
Record-resurfacing and record-shaving machines. Dictaphone Corporation. 205,195; renewed Nov. 3, 1945. O. G. Dec. 11.
Sewing-machines and their parts and attachments, Oscillating, rotating, and vibrating shuttle or looper. Singer Manufacturing Company. 49,599; re-renewed Feb. 13, 1946. O. G. Dec. 11.
Sewing-machines and their parts and attachments. Singer Manufacturing Company. 49,603; re-renewed Feb. 13, 1946. O. G. Dec. 11.
Sewing-machines and their parts and attachments. Singer Manufacturing Company. 49,604–5; re-renewed Feb. 13, 1946. O. G. Dec. 11.
Sewing-machines containing shuttles or loopers. Singer Manufacturing Company. 49,600; re-renewed Feb. 13, 1946. O. G. Dec. 11.
Stands, Sewing-machines. Singer Manufacturing Company. 49,601; re-renewed Feb. 13, 1946. O. G. Dec. 11.

CLASS 26

Apparatus for candling, grading, and handling eggs. Otto Niederer Sons, Inc. 418,263; Dec. 11; Serial No. 483,868; published Oct. 2, 1945.
Apparatus for measuring distances, and for determining depths of water and soundings. Submarine Signal Corporation. 205,312; renewed Nov. 3, 1945. O. G. Dec. 11.
Films, Sensitized photographic. E. Elston. 418,290; Dec. 11; Serial No. 484,671; published Oct. 2, 1945.
Paper, Sensitized photographic. Grant Photo Products, Incorporated. 418,303; Dec. 11; Serial No. 485,441; published Oct. 2, 1945.
Thermostats and sprinkler system control thermostats, Heat actuated. "Automatic" Sprinkler Company of America. 418,310; Dec. 11.

CLASS 27

Mainsprings for watches. American Waltham Watch Co. 48,775; re-renewed Jan. 16, 1946. O. G. Dec. 11.
Watch movements and wrist and pocket watches. Jean R. Graef, Inc. 418,275; Dec. 11; Serial No. 484,126; published Sept. 25, 1945.
Watches and clocks. Columbia Eastern Corporation. 418,279–80; Dec. 11; Serial Nos. 484,192–3; published Sept. 25, 1945.

CLASS 28

Bracelets and other articles of jewelry. Richter & Phillips Co. 418,278; Dec. 11; Serial No. 484,182; published Oct. 2, 1945.
Insignia and emblems. American Insignia Company. 418,203; Dec. 11; Serial No. 474,845; published Sept. 25, 1945.
Jewelry. B. Hecker Company. 418,256; Dec. 11; Serial No. 483,373; published Oct. 2, 1945.
Knives, forks, spoons, etc., Sterling silver. Zell Bros. 418,249; Dec. 11; Serial No. 482,862; published Oct. 2, 1945.
Stones, Precious. Waldron & Company, Inc. 418,205; Dec. 11. Serial No. 475,349; published July 3, 1945.

CLASS 31

Coolers, refrigerators, and parts thereof, Beverage. Ramsey-Bennett Company. 418,313; Dec. 11.
Refrigerators. Monitor Equipment Corporation. 418,306; Dec. 11; Serial No. 486,054; published Oct. 2, 1945.

CLASS 32

Mattresses. Fleetwood Craftsmen, Inc. 418,315; Dec. 11.

CLASS 34

Pasteurizers. General Dairy Equipment, Inc. 418,308; Dec. 11.

CLASS 36

Phonographs, machines for phonographically recording, machines for phonographically reproducing, etc. Dictaphone Corporation. 203,885; renewed Sept. 29, 1945. O. G. Dec. 11.
Pick for stringed musical instruments. Bacon Banjo Co., Inc. 208,911; renewed Feb. 9, 1946. O. G. Dec. 11.

CLASS 37

Folders, Paper cardboard. Mary Muffet, Inc. 418,206; Dec. 11; Serial No. 475,447; published Sept. 25, 1945.
Paper, Typewriter. W. S. Tuttle. 209,178; renewed Feb. 16, 1946. O. G. Dec. 11.
Papers, Writing, printing, and papeterie. Eastern Corporation. 418,192; Dec. 11; Serial No. 468,443; published Sept. 25, 1945.

CLASS 38

Bulletin, Daily construction news. F. W. Dodge Corporation. 209,212; renewed Feb. 16, 1946. O. G. Dec. 11.
Calendars, Natural birth control. F. H. Strom. 418,257; Dec. 11; Serial No. 483,389; published Sept. 25, 1945.
Cards, Greeting. B. T. Babbitt Inc. 418,301; Dec. 11; Serial No. 485,070; published Sept. 25, 1945.
Comic strip. United States War Department. 418,271; Dec. 11; Serial No. 483,998; published Sept. 18, 1945.
Comic strips. Pacific Coast Marine Firemen, Oilers, Watertenders & Wipers' Association. 418,266; Dec. 11; Serial No. 483,916; published Sept. 18, 1945.
Information and memorandum, A combined handy. William Irving Hamilton, Inc. 418,228; Dec. 11; Serial No. 480,453; published Sept. 18, 1945.



Magazines, Illustrated photographic. Kodak Mexicana, Ltd. 418,258; Dec. 11; Serial No. 483,624; published Sept. 25, 1945.
Periodical. Premium Service Co. Inc. 418,299; Dec. 11; Serial No. 484,974; published Sept. 25, 1945.

CLASS 39

Boots and shoes, Leather. E. T. Wright & Co. 45,772; re-renewed Aug. 29, 1945. O. G. Dec. 11.
Coats, suits, and dresses, Women's. S. E. Zuckerman. 418,304; Dec. 11; Serial No. 485,520; published Oct. 2, 1945.
Coats, vests, pants, and overcoats, Men's. Fashion Park, Inc. 418,243; Dec. 11; Serial No. 482,148; published July 17, 1945.
Coats, vests, pants, etc. Fashion Park, Inc. 418,242; Dec. 11; Serial No. 482,139; published Sept. 25, 1945.
Dresses, James Craig-California. 418,221; Dec. 11; Serial No. 479,424; published Oct. 2, 1945.
Dresses, Franchon Company. 209,473; renewed Feb. 23, 1946. O. G. Dec. 11.
Dresses, Ladies' and misses'. S. Rudolph. 418,255; Dec. 11; Serial No. 483,348; published Oct. 2, 1945.
Dresses, women's slip-overs and bloomers; women's, men's, and children's knitted and textile underwear; etc., Women's and children's. O. Horowitz. 208,903; renewed Feb. 9, 1946. O. G. Dec. 11.
Handkerchiefs. John Macksoud Company. 418,262; Dec. 11; Serial No. 483,777; published Sept. 25, 1945.
Hosiery. Nelson Knitting Company. 209,230; renewed Feb. 16, 1946. O. G. Dec. 11.
Hosiery and underwear, Knit. M. & C. Mayer. 49,908–9; re-renewed Feb. 20, 1946. O. G. Dec. 11.
Hosiery, knitted underskirts, and knitted drawers, Knitted. J. W. Mettler. 48,840; re-renewed Feb. 20, 1946. O. G. Dec. 11.
Shirts and women's shirt waists, Men's. Columbus Shirt Company. 209,484; renewed Feb. 23, 1946. O. G. Dec. 11.
Shirts, Men's and boys'. Associated Knitted Outerwear Mills, Inc. 418,269; Dec. 11; Serial No. 476,129; published Oct. 2, 1945.
Shirts, Men's and boys' dress and sport. Roburn Sportswear Corp. 418,291; Dec. 11; Serial No. 484,705; published Oct. 2, 1945.
Shirts, Men's and boys' dress and sport. Rotary Shirt Co., Inc. 418,292; Dec. 11; Serial No. 484,707; published Oct. 2, 1945.
Shirts, Men's dress and sport. Wilson Brothers. 418,286; Dec. 11; Serial No. 484,434; published Sept. 25, 1945.
Shirts, Work. Reliance Manufacturing Company. 204,798; renewed Oct. 27, 1945. O. G. Dec. 11.
Toe covers. M. G. Rheinstrom. 418,240; Dec. 11; Serial No. 481,859; published Sept. 25, 1945.
Underwear and knitted outerwear, Men's, boys', and children's. Associated Knitted Outerwear Mills, Inc. 418,296; Dec. 11; Serial No. 484,817; published Oct. 2, 1945.
Underwear, Women's, misses', and children's. Van Raalte Company, Inc. 418,282; Dec. 11; Serial No. 484,281; published Sept. 25, 1945.
Union suits, Men's and boys' nainsook athletic. Carson Pirie Scott & Company. 206,287; renewed Nov. 24, 1945. O. G. Dec. 11.
Wearing apparel, Men's and boys'. Rice-Stix Dry Goods Company. 209,267; renewed Feb. 16, 1946. O. G. Dec. 11.

CLASS 42

Cotton piece goods. Sayles Finishing Plants, Inc. 209,482; renewed Feb. 23, 1946. O. G. Dec. 11.
Woolen goods in the piece, and in cut lengths. S. Stein & Co. 202,532; renewed Aug. 25, 1945. O. G. Dec. 11.
Woolen piece goods. Forstmann & Huffmann Company. 203,736–7; renewed Sept. 22, 1945. O. G. Dec. 11.

CLASS 45

Beverages and concentrates and syrups for the manufacture thereof, Non-alcoholic, noncereal, maltless. Nedick's Stores, Inc. 418,265; Dec. 11; Serial No. 483,912; published Sept. 19, 1945.
Beverages, Carbonated, non-alcoholic non-cereal maltless. Seven Up Company. 418,191; Dec. 11; Serial No. 465,582; published Sept. 11, 1945.
Beverages, Non-alcoholic maltless. H. Fox & Co. 418,248; Dec. 11; Serial No. 482,836; published Sept. 11, 1945.
Beverages, Nonalcoholic, noncereal, maltless. California Bottling Works. 200,261; renewed June 30, 1945. O. G. Dec. 11.
Beverages, Nonalcoholic, noncereal, maltless. M. Kantor. 208,164; renewed Jan. 19, 1946. O. G. Dec. 11.
Juices, Fruit. Seeman Brothers, Inc. 418,229; Dec. 11; Serial No. 480,474; published Sept. 18, 1945.

CLASS 46

Butter. Breakstone Bros., Inc. 203,969; renewed Sept. 29, 1945. O. G. Dec. 11.
Candy tablets. Golden State Milk Products Company. 207,066; renewed Dec. 15, 1945. O. G. Dec. 11.
Canned vegetables. Lodi Canning Company. 203,851; renewed Sept. 29, 1945. O. G. Dec. 11.
Cherries, marrons in sirup, marrons glacés, etc. James P. Smith & Company. 202,136; renewed Aug. 18, 1945. O. G. Dec. 11.
Extracts, Flavoring. Crescent Manufacturing Co. 47,141; re-renewed Oct. 31, 1945. O. G. Dec. 11.
Fruits, and fresh vegetables, Fresh citrus. A. S. Herlong & Co. 202,463; renewed Aug. 25, 1945. O. G. Dec. 11.
Fruits, Fresh citrous. Duarte-Monrovia Citrus Association. 209,257; renewed Feb. 16, 1946. O. G. Dec. 11.
Fruits, Fresh citrus. Mountain View Fruit Association. 209,191; renewed Feb. 16, 1946. O. G. Dec. 11.
Olives and paprika. James P. Smith & Company. 201,927; renewed Aug. 11, 1945. O. G. Dec. 11.
Pastes, Alimentary. Italian-American Paste Co. Inc. 207,528; renewed Jan. 5, 1946. O. G. Dec. 11.

CLASS 47

Wine. Empire State Wine Co. 45,545; re-renewed Aug. 22, 1945. O. G. Dec. 11.

CLASS 48

Beer. Old Reading Brewery Inc. 418,190; Dec. 11; Serial No. 463,302; published Sept. 11, 1945.
Beer. Adam Scheidt Brewing Company. 418,270; Dec. 11; Serial No. 483,987; published Sept. 18, 1945.
Lager-beer, Bottled. Valentin Blatz Brewing Co. 49,804; re-renewed Feb. 20, 1946. O. G. Dec. 11.

CLASS 49

Rum. Compania Licorera Agabama, S. A. 418,232; Dec. 11; Serial No. 480,742; published Sept. 25, 1945.
Rum. Wakem & McLaughlin, Incorporated. 418,189; Dec. 11; Serial No. 462,694; published Nov. 9, 1943.
Whiskey. Le Sage Company. 418,251; Dec. 11; Serial No. 483,072; published Sept. 11, 1945.
Whisky. Kentucky Distilleries & Warehouse Co. 208,929; renewed Feb. 9, 1946. O. G. Dec. 11.

CLASS 50

Candles and glass cups for holding the same, Wax. J. P. B. Fiske. 418,311; Dec. 11.
Caps or closures, Jar. W. J. Peelle. 209,183; renewed Feb. 16, 1946. O. G. Dec. 11.
Mats, Water-absorbing fibre. Bird & Son, Inc. 418,211; Dec. 11; Serial No. 477,055; published Sept. 18, 1945.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Goodman Manufacturing Company: *See*—
Holstein, John H., assignor.
Holstein, John H., Baltimore, Md., assignor to Goodman Manufacturing Company, Chicago, Ill. Self-loading device for shaker conveyers. Re. 22,703; Dec. 11.

# LIST OF PLANT PATENTEES

Howard, Frederick H., assignor to Howard & Smith, Montebello, Calif. Rose plant. 663; Dec. 11.

Howard & Smith: *See*—
Howard, Frederick H., assignor.

# LIST OF DESIGN PATENTEES

Abramson, Nathan, New York, N. Y., assignor to Presto Electric Co., Union City, N. J. Combined clock and door chime. 143,106; Dec. 11.

Adams, Emory W., Oakland, Md. Time indicator or the like. 143,107; Dec. 11.

Ahrndt, Arthur H., assignor to U. S. Slicing Machine Company, La Porte, Ind. Gauge plate for slicing machines. 143,108; Dec. 11.

Akers, Scott P., Washington, D. C. Combination desk unit. 143,109; Dec. 11.

Amp Corporation: *See*—
Thompson, Parke H., assignor.

Ashenfelter, William, Swanton, Ohio. Concrete fence panel. 143,110; Dec. 11.

Ashenfelter, William, Swanton, Ohio. Concrete fence panel. 143,111; Dec. 11.

Ashenfelter, William, Swanton, Ohio. Concrete fence panel. 143,112; Dec. 11.

Barrett, Altina: *See*—
Barrett, Eric A.

Barrett, Eric and A., Beverly Hills, Calif. Spectacle temple piece. 143,113; Dec. 11.

Bastian-Blessing Company, The: *See*—
Connell, William S., assignor.

Beekley, Francis C., West Hartford, Conn. Micrometer caliper. 143,114; Dec. 11.

Bell, Beulah B., Wilmington, N. C. Plaque or similar article. 143,115; Dec. 11.

Bieberbach, Frederick, assignor to Nordic Silver Co., Inc., New York, N. Y. Brooch pin or similar article. 143,116; Dec. 11.

Bieberbach, Frederick, assignor to Nordic Silver Co., Inc., New York, N. Y. Brooch pin or similar article. 143,117; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,118; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,119; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,120; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,121; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,122; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,123; Dec. 11.

Bjornerantz, Carl G., Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass. Heat control and indicator panel for ranges or the like. 143,124; Dec. 11.

Brinkema, Robert, Kew Gardens, N. Y. Display stand. 143,125; Dec. 11.

Bromfield, Meredith C., assignor to Bromfield-Ritter and Company, Denver, Colo. Chalk holder or similar article. 143,126; Dec. 11.

Bromfield-Ritter and Company: *See*—
Bromfield, Meredith C., assignor.

Burlin, Leslie H., Valparaiso, Ind., assignor to M. L. Sturn, Evanston, doing business as Milton Sturn & Company, Chicago, Ill. Climbing toy figure. 143,127; Dec. 11.

Butler, Clifford E., Waterloo, Iowa. Cream separator supply tank. 143,128; Dec. 11.

Campbell, James T., Detroit, Mich. Plate whirler. 143,129; Dec. 11.

Chess, Mary, Inc.: *See*—
Yandell, Anne, assignor.

Cole, Helen D., New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,133; Dec. 11.

Cole, Helen D., New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,136; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,130; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,131; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,132; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,134; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,135; Dec. 11.

Cole, Helen D., New York, N. Y., and W. Diehl, Summit, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,137; Dec. 11.

Cole, Helen D., New York, and G. A. Santullo, Corona, Long Island, N. Y., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,138; Dec. 11.

Cole, Helen D., New York, N. Y., and K. Speck, Palisade Park, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Pin or similar article. 143,139; Dec. 11.

Columbia Precision Products Corp.: *See*—
Nelson, Leonard, assignor.

Connell, William S., Norwood Park Township, Cook County, assignor to The Bastian-Blessing Company, Chicago, Ill. Frozen food cabinet. 143,140; Dec. 11.

Diehl, William: *See*—
Cole, H. D., and Diehl.

Ekco Products Company: *See*—
Sekowski, George E., assignor.

Fitz Gerald, Harold R., Rocky River, and G. E. Kricker, assignors to The Midland Steel Products Company, Cleveland, Ohio. Combined hand control valve mounting and indicator. 143,143; Dec. 11.

Florence Stove Company: *See*—
Bjornerantz, Carl G., assignor.

Formis, Frederick K., West Hartford, Conn. Knife. 143,144; Dec. 11.

Freedman, Leonard I., New York, N. Y. Embossed leather. 143,141; Dec. 11.

Freund, Milan, and P. Neuberger, New York, N. Y. Writing paper or the like. 143,142; Dec. 11.

Golden State Ceramics: *See*—
Mader, Nona, assignor.
Hiltenbrand, Frank X., Weehawken, N. J., assignor to H. Rosenfeld Co., New York, N. Y. Handbag. 143,145; Dec. 11.
Hobbs, James M., Tucson, Ariz. Calculator. 143,146; Dec. 11.
Illinois Watch Case Co.: *See*—
Muller-Munk, Peter, assignor.
Teague, Walter D., assignor.
Kotkins, Henry L.: *See*—
Tobey, Robert D., assignor.
Kreisler, Jacques, Manufacturing Corporation: *See*—
Cole, Helen D., assignor
Cole, H. D., and Diehl, assignors.
Kricker, George E.: *See*—
Fitz Gerald, H. R., and Kricker.
La Plant-Choate Manufacturing Co., Inc.: *See*—
Rockwell, Harvey W., assignor.
Lederer, George J., assignor to Providence Stock Company, Providence, R. I. Bracelet. 143,147; Dec. 11.
Lonergan Manufacturing Company: *See*—
Lonergan, Simon J., assignor.
Lonergan, Simon J., assignor to Lonergan Manufacturing Company, Albion, Mich. Cooler cabinet or the like. 143,148; Dec. 11.
MacDonald, Rodney W., Seattle, Wash. Display rack. 143,149; Dec. 11.
Mader, Nona, Glendale, assignor to Golden State Ceramics, Pasadena, Calif. Wall vase. 143,150; Dec. 11.
Merchant & Evans Company: *See*—
Peck, Frederic G., assignor.
Midland Steel Products Company, The: *See*—
Fitz Gerald, H. R., and Kricker, assignors.
Milton Sturn & Company: *See*—
Burlin, Leslie H., assignor.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,151; Dec. 11.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,152; Dec. 11.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,153; Dec. 11.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,154; Dec. 11.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,155; Dec. 11.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,156; Dec. 11.
Muller-Munk, Peter, Pittsburgh, Pa., assignor to Illinois Watch Case Co., Elgin, Ill. Vanity case. 143,157; Dec. 11.
Nelson, Leonard, New York, assignor to Columbia Precision Products Corp., Long Island City, N. Y. Compact. 143,158; Dec. 11.
Nelson, Leonard, New York, assignor to Columbia Precision Products Corp., Long Island City, N. Y. Compact. 143,159; Dec. 11.
Neuberger, Paul: *See*—
Freund, M., and Neuberger.
Nordic Silver Co., Inc.: *See*—
Bieberbach, Frederick, assignor.
Olson, Clarence A., Minneapolis, Minn. Computer. 143,160; Dec. 11.
Peck, Frederic G., Upper Darby, assignor to Merchant & Evans Company, Philadelphia, Pa. Refrigerating unit. 143,161; Dec. 11.
Petersen, Vernell, Paul, Los Angeles, Calif. Vase or similar article. 143,162; Dec. 11.
Petitta, Mario, New York, N. Y. Hair curling device or similar article. 143,163; Dec. 11.
Presto Electric Co.: *See*—
Abramson, Nathan, assignor.
Providence Stock Company: *See*—
Lederer, George J., assignor.
Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Sauce pan or similar article. 143,164; Dec. 11.
Redares, Raymond J., Los Angeles, Calif. Brassière or similar garment. 143,165; Dec. 11.
Reilly, Charles Van B., Milwaukee, Wis. Finger ring. 143,166; Dec. 11.
Rieske, Otto G., Buffalo, N. Y. Fish scaling device. 143,167; Dec. 11.
Rockwell, Harvey W., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Combined jack and bracket mounting. 143,168; Dec. 11.
Rosenfeld, Harry, Co.: *See*—
Hiltenbrand, Frank X., assignor.
Russell, Jefferine D.: *See*—
Russell, Richard C. and J. D.
Russell, Richard C. and J. D., Monterey Park, Calif. Doll or similar article. 143,169; Dec. 11.
Santullo, Germinal A.: *See*—
Cole, H. D., and Santullo.
Seattle Luggage Company: *See*—
Tobey, Robert D., assignor.
Sekowski, George E., New Haven, Conn., assignor to Ekco Products Company. Spoon or similar article. 143,170; Dec. 11.
Speck, Kurt: *See*—
Cole, H. D., and Speck.
Strum, Milton L.: *See*—
Burling, Leslie H., assignor.
Teague, Walter D., New York, N. Y., assignor to Illinois Watch Case Co., Elgin, Ill. Vanity case. 143,171; Dec. 11.
Thompson, Parke H., Glendale, assignor to Amp Corporation, St. Louis, Mo. Carbonator cabinet. 143,172; Dec. 11.
Tobey, Robert D., assignor to H. L. Kotkins doing business as Seattle Luggage Company, Seattle, Wash. Suitcase. 143,173; Dec. 11.
U. S. Slicing Machine Company: *See*—
Ahrndt, Arthur H., assignor.
Wagner, Paul, Burlington, Wis. Gate for dispensing liquids. 143,174; Dec. 11.
Wagner, Paul, Burlington, Wis. Lock lever faucet. 143,175; Dec. 11.
West Bend Aluminum Company: *See*—
Ramsthal, Alfred F., assignor.
Whitehouse, John N., Camden, N. J. Fountain pen. 143,176; Dec. 11.
Yager, Edward, Toledo, Ohio. Housing for wood planing machine. 143,178; Dec. 11.
Yandell, Anne, assignor to Mary Chess, Inc., New York, N. Y. Sachet or similar article. 143,177; Dec. 11.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Robert H., and T. A. Dickson, assignors to Colorado Iron Works Company, Denver, Colo. Drying and calcining furnace. 2,390,675; Dec. 11.
Abrams, Oliver A., and O. Schubert, Portland, Oreg., assignors to The E. J. Bartells Company, Seattle, Wash. Fitting insulating cover. 2,390,632; Dec. 11.
Abrams, Victor R., Detroit, Mich. Fluid conduit. 2,390,501; Dec. 11.
Adams, Leon M.: *See*—
Gerhart, H. L., and Adams.
Addressograph-Multigraph Corporation: *See*—
Gollwitzer, Walter T., assignor.
Hatfield, Robert L., assignor.
Adel Precision Products Corp.: *See*—
Kelly, John W., assignor.
Aircraft Screw Products Company, Inc.: *See*—
Cram, Harkness W., assignor.
Cram, H. W., and Eckener, assignors.
Eckener, Erwin, assignor.
Lang, Eugene M., assignor.
Aksomitas, William E., Hartford, Conn., assignor to Hartford-Empire Company. Cooling glass articles. 2,390,910; Dec. 11.
Aktiengesellschaft Brown, Boveri & Cie.: *See*—
Beldi, Fritz, assignor.
Pfenninger, Hans, assignor.
Alderman, Artis, Lincoln Park, Mich. Cultivator attachment for tractors. 2,390,767; Dec. 11.
Alexander, Ford I., Whittier, Calif. System for detonating explosives in deep wells or the like. 2,390,676; Dec. 11.
Alexandersson, Harald V., and N. U. Hagren, Lidingo, assignors to Svenska Aktiebolaget Gasaccumulator, Lidingo, near Stockholm, Sweden. Record changer for phonographs. 2,390,862. Dec. 11.
Alford, Edward L., and M. L. Martin, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Noise shield for acoustic devices. 2,390,488; Dec. 11.
Alkan, Robert, and Amedee Costa de Beauregard, New York, N. Y. Catapult device for autonomous aerial torpedoes. 2,390,677; Dec. 11.
Allen, Thomas C., and H. H. Harris, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Insecticide and making same. 2,390,911; Dec. 11.
American Chemical Paint Company: *See*—
Jones, Franklin D., assignor.
American Cyanamid Company: *See*—
Davis, H. S., and Redmon, assignors.
Pierce, Alan E., assignor.
American Fibre Corporation: *See*—
Nordstrom, Gustaf E., assignor.
American Locomotive Company: *See*—
Thompson, N. C., Gunter, Shaw, and Roe, assignors.
American Utilities Corporation: *See*—
Conway, Donald J., assignor.
American Viscose Corporation: *See*—
Collins, Benjamin W., assignor.
De Brabander, Camiel, assignor.
Amidon, Merle, Elizabeth, and H. E. Thornton, Plainfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Making electromagnetic cores. 2,390,863; Dec. 11.
Ampro Corporation: *See*—
Morgan, T. J., and Dearborn, assignors.
Anchor Hocking Glass Corporation: *See*—
McNamara, W. L., and McFee, assignors.
Anderson, William S., assignor to Penn-Standard Sole Cementing Process, Inc., Philadelphia, Pa. Sole roughing tool. 2,390,633; Dec. 11.
Andrews, Norwood H., Moorestown, N. J., assignor to International Pulverizing Corporation. Method and apparatus for refining dry materials. 2,390,678; Dec. 11.
Anthony, Benjamin F.: *See*—
Charman, W. M., and Anthony.
Archenbronn, George E., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. High frequency attenuating device. 2,390,489; Dec. 11.
Aresee Company Inc., The: *See*—
Chandler, Daniel L., assignor.
Arnold, Aaron, East Orange, and C. B. Schreffler, Montclair, assignors to National Oil Products Company, Harrison, N. J. Treating vitamin B concentrates. 2,390,679; Dec. 11.
Aro Equipment Corporation, The: *See*—
Fitch, Clifford E., assignor.
Ginter, Charles W., assignor.
Johnson, James P., assignor.
Art Metal Construction Company: *See*—
Wells, Roy E., assignor.
Askania Regulator Company: *See*—
Zieboiz, Herbert, assignor.
Atkins, Carl E., Oak Park, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Limiter circuit for frequency modulation receivers. 2,390,502; Dec. 11.
Atkins, Carl E., Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Limiter circuit for frequency modulation receivers. 2,390,503; Dec. 11.
Atlantic Refining Company, The: *See*—
Leum, L. N. and Clapetta, assignors.
Mann, Sydney, assignor.
Atwell, Thomas C., assignor to Floridin Company, Warren, Pa. Filter powder. 2,390,490; Dec. 11.
Aufiero, John R., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Lamp. 2,390,634; Dec. 11.
Ausherman, Harry S., Wichita, Kans. Feeding mechanism for threshing combines. 2,390,680; Dec. 11.
Austin, Kirby B., and G. G. Young, Bridgeport, Conn., assignors to General Electric Company. Variable selectivity amplifier. 2,390,768; Dec. 11.
Automatik Venetian Hardware Corporation: *See*—
Cohn, Harold J., assignor.
Ayers, Allyn L., Oakland, Calif. Tandem axle vehicle. 2,390,912; Dec. 11.
Backlin, Clarence R., Floral Park North, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread take-up device. 2,390,681; Dec. 11.
Badeau, Reid G., Wausau, Wis. Strip shingle construction. 2,390,682; Dec. 11.
Barker, Stuart N., G. S. Selman, and V. G. Bull, Hythe, V. C. E. Marten-Gwilliam, Barton-on-Sea, England, R. Wark, Irvine, and T. Thomson, Kilmarnock, Scotland, assignors to The British Power Boat Company Limited, Hythe, Southampton, and Imperial Chemical Industries Limited, London, England. Torpedo launching mechaniam. 2,390,635; Dec. 11.
Barnes Drill Co.: *See*—
Caldwell, Harry J., assignor.
Barnes, James F., trustee: *See*—
Heckman, John A., assignor.
Barrana, William T., and V. S. Martin, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for making retractile cords. 2,390,769; Dec. 11.
Barrera, Salvatore, Brooklyn, N. Y. Radii tool and dresser. 2,390,914; Dec. 11.
Barrett, Charles G., Alexandria, Va., assignor to himself and E. C. Magdeburger, as Trustees. Inlet and exhaust connections for internal-combustion engines. 2,390,913; Dec. 11.
Bartells, E. J., Company, The: *See*—
Abrams, O. A., and Schubert, assignors.
Barton, Paul D., Phoenixville, and P. F. Dougherty, Chester, assignors to Sun Oil Company, Philadelphia, Pa. Producing petroleum. 2,390,770; Dec. 11.
Batorski, Edward J.: *See*—
Merrill, G. L., Carlin, and Batorski.
Bauer, Walter C.: *See*—
Briggs, S. W., and Bauer.
Baxter Laboratories, Inc.: *See*—
Nesset, Naurice M., assignor.
Bayles, Allison L., Larchmont, N. Y., assignor to Rogers Diesel and Aircraft Corporation, New York, N. Y. Piston. 2,390,915; Dec. 11.
Bayley, Warren V., Los Angeles, Calif. Correspondence portfolio. 2,390,864; Dec. 11.
Beldi, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Demountable high-vacuum hot-cathode rectifier. 2,390,683; Dec. 11.
Bell Telephone Laboratories, Incorporated: *See*—
Alford, E. L., and Martin, assignors.
Carter, Charles W., Jr., assignor.
Fitch, K. E., Large, and Lucek, assignors.
Ives, Herbert E., assignor.
Jansky, Karl G., assignor.
Belmont Radio Corporation: *See*—
Archenbronn, George E., assignor.
Bemis, Irving W., Natick, Mass. Adjustable work support for use in machining operations. 2,390,865; Dec. 11.
Bendix Aviation Corporation: *See*—
Kreager, Paul H., assignor.
Marmont, George H., assignor.
Bendix Products Corporation: *See*—
Mock, Frank C., assignor.
Bendix, Vincent, South Bend, Ind., assignor, by mesne assignments, to Langley Aviation Corporation, New York, N. Y. Veneer press. 2,390,684; Dec. 11.

Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Apparatus for impregnating electric power cables. 2,390,823; Dec. 11.

Bennett, Harry T., and J. R. Marshall, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Lubricant. 2,390,491; Dec. 11.

Bennett, Harry T., and J. R. Marshall, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Lubricant. 2,390,492; Dec. 11.

Benson, Frederick J., North Sacramento, Calif. Sandal. 2,390,685; Dec. 11.

Berger, Adolph L., Dayton, Ohio. Centrifugal air compressor. 2,390,504; Dec. 11.

Berry, Henry W., West Collingswood, N. J., assignor to Radio Corporation of America. Phase inverter. 2,390,824; Dec. 11.

Bethlehem Steel Company: *See*—
Diehn, K. H., and Crewe, assignors.
White, William E., assignor.

Bichsel, Harry J.: *See*—
Burgwin, S. L., Mahoney, and Bichsel.

Biro, Laszlo J., Buenos Aires, Argentina. Writing instrument. 2,390,636; Dec. 11.

Bishop, William C., assignor of one-half to G. W. Lisenbee, Vernon, Tex. Rodent exterminator. 2,390,686; Dec. 11.

Blabor, Sloane: *See*—
Hudgins, Houlder, assignor.

Blackburn, Wayne E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Selenium rectifiers. 2,390,771; Dec. 11.

Blanchard, Frederick W., Hampstead, Quebec, Canada. Position-indicating handle for valves. 2,390,866; Dec. 11.

Bloom, Galen A., et al.: *See*—
Kling, Alan L., assignor.

Bloomberg, David J., Newton, Mass., assignor to General Electric Company. Elastic fluid turbine. 2,390,772; Dec. 11.

Blout, Elkan R.: *See*—
Elderfield, R. C., and Blout.

Blue, Richard W.: *See*—
Houdry, E. J., and Blue.

Bochonok, Stefan, Enola, Pa. Center bearing. 2,390,493; Dec. 11.

Boericke, Edward E.: *See*—
Boericke, Gideon.

Boericke, Gideon, Wynnewood, and E. E. Boericke, Lansdowne, Pa.; said E. E. Boericke, assignor to said Gideon Boericke. Preparation of compounds of tungsten and similar metals from their ores and residues. 2,390,687; Dec. 11.

Bookstein, Sol, et al.: *See*—
Bustamante, Cesar, assignor.

Borgelt, Elmer H., Dayton, Ohio. Rope splicing tool. 2,390,505; Dec. 11.

Bothner, Herman A., Springfield, Mass. Tool. 2,390,916; Dec. 11.

Bowser, S. F., & Company, Incorporated: *See*—
Marvel, Harvey E., assignor.

Bradberry, Henrietta, Chicago, Ill. Torpedo discharge means. 2,390,688; Dec. 11.

Brauchler, Charles A., Canton, Ohio. Forging cylinder heads. 2,390,867; Dec. 11.

Brechner, Clande H.: *See*—
Griffin, N. B., and Brechner.

Breth, Ferdinand W., and A. Kinsel, Petrolia, Pa., assignors to L. Sonneborn Sons, Inc., New York, N. Y. Refining petroleum oils. 2,390,917; Dec. 11.

Briggs Clarifier Company: *See*—
Briggs, S. W., and (Bauer, assignor).

Briggs, Southwick W., Washington, D. C., and W. C. Bauer, Chevy Chase, Md.; said Bauer assignor to Briggs Clarifier Company, Washington, D. C. Clarifying apparatus. 2,390,494; Dec. 11.

Brill, William E., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Engine cylinder construction. 2,390,637; Dec. 11.

Brinton, Howard G., Pittsfield, Mass., assignor to General Electric Company. Amplifier circuits. 2,390,773; Dec. 11.

British Power Boat Company Limited, The, et al.: *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson, assignors.

Brown Instrument Company, The: *See*—
Jones, Harry S., assignor.
Vollrath, Joseph P., assignor.

Brown, Kenneth M., assignor to Universal Oil Products Company, Chicago, Ill. Removing copper compounds from copper-sweetened hydrocarbon oil. 2,390,868; Dec. 11.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. γ-nitro monocarboxylic esters. 2,390,918; Dec. 11.

Büchi, Alfred, Winterthur, Switzerland. Turbine with overhung rotor. 2,390,506; Dec. 11.

Budd, Edward G., Manufacturing Company: *See*—
Watter, Michael, assignor.

Bull, Victor G.: *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson.

Bunn, Edward S., Baltimore, Md., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Zinc base alloys. 2,390,689; Dec. 11.

Burgess Battery Company: *See*—
MacFarland, Allison M., assignor.

Burgwin, Stephen L., Forest Hills, J. R. Mahoney, Homewood, and H. J. Bichsel, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Welding control system. 2,390,774; Dec. 11.

Burke, James L.: *See*—
Modern, A. E. H., and Burke.

Busch, Vern W., Rushton, Mich. Lunch box. 2,390,638; Dec. 11.

Bustamante, Cesar, assignor of one-third to S. Bookstein, Belle Harbor, and one-third to B. Weisman, New York, N. Y. Machine for making and applying spangles. 2,390,630; Dec. 11.

Caldwell, Harry J., assignor to Barnes Drill Co., Rockford, Ill. Control mechanism for honing machines. 2,390,495; Dec. 11.

California Research Corporation: *See*—
Kavanagh, F. W., Farrington, and Clayton, assignors.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Draft mechanism for railway cars. 2,390,496; Dec. 11.

Campbell, James T., Detroit, Mich. Lithographic plate making apparatus. 2,390,497; Dec. 11.

Cantor, Sidney M., Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y. Production of alkyl glycosides. 2,390,507; Dec. 11.

Capita, Emil R., Flushing, N. Y. Apparatus and method for applying solder. 2,390,498; Dec. 11.

Carbide and Carbon Chemicals Corporation: *See*—
Law, G. H., nad Purse, assignors.

Carleton, Henry, Washington, D. C. Thyratron inverter. 2,390,508; Dec. 11.

Carlin, Theodore F.: *See*—
Merrill, G. L., Carlin, and Batorski.

Carlisle, Richard W., Greenburgh, N. Y. Eyeglasses. 2,390,825; Dec. 11.

Carlson, Gustaf H., and S. R. Safir, Pearl River, assignors to Lederle Laboratories, Inc., New York, N. Y. Preparation of calcium pantothenate. 2,390,499; Dec. 11.

Carlson, Ralph R., St. Paul, Minn. Meter testing instrument support. 2,390,640; Dec. 11.

Caron, Louis G., Washington, D. C. Artificial limb. 2,390,919; Dec. 11.

Caron, Louis G., Washington, D. C. Ankle joint. 2,390,920; Dec. 11.

Carter, Charles W., Jr., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone transmission system and apparatus therefor. 2,390,869; Dec. 11.

Carter, George L., Teaneck, assignor to General Oil Heating Corporation, West New York, N. J. Oil-burner construction. 2,390,509; Dec. 11.

Case, J. L., Company: *See*—
Krause, N. R., and Heth, assignors.
Markel, John M., assignor.
Traphagen, Harry R., assignor.

Celanese Corporation of America: *See*—
Stearn, William T., assignor.

Chandler, Daniel L., Salem, assignor to The Arcsee Company, Inc., Swampscott, Mass. Automobile door window mechanism. 2,390,690; Dec. 11.

Charman, Walter M., Shaker Heights, and B. F. Anthony, Cleveland Heights; said Anthony assignor to Ferro Engineering Company, Cleveland, Ohio. Low volume sinkhead. 2,390,500; Dec. 11.

Chatten, Clarence K., Jackson Heights, N. Y. Adhesive testing device. 2,390,510; Dec. 11.

Chatterjea, Prafulla K., and L. W. Houghton, assignors to Standard Telephones and Cables Limited, London, England. Multichannel carrier communications system. 2,390,641; Dec. 11.

Cherry-Burrell Corporation: *See*—
Dahlberg, Arthur C., and Holland, assignors.

Chester, Allan E., Highland Park, and F. F. Reisinger, Waukegan, assignors to Poor & Company, Chicago, Ill. Compositions of matter and preparation thereof. 2,390,511; Dec. 11.

Chicago Flexible Shaft Company: *See*—
Kocl, Ludvik J., assignor.

Christ, Joseph G., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Brazing alloys. 2,390,775; Dec. 11.

Christie, Lewis D., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Measuring device. 2,390,691; Dec. 11.

Ciapetta, Frank G.: *See*—
Leum, L. N., and Ciapetta.

Cincinnati Ball Crank Company, The: *See*—
Woelfer, Frank C., Jr., assignor.

Clark, Ethel H.: *See*—
Clark, John W., assignor.

Clark, John W., Washington, D. C., assignor of one-third to E. H. Clark. Applicator for facial creams. 2,390,921; Dec. 11.

Clark, Robert H.: *See*—
Smith, Lawson A., assignor.

Clark Thread Company, The: *See*—
Garrott, John H., assignor.





Clayton, James O.: *See*—
Kavanagh, F. W., Farrington, and Clayton.

Clem, Everett W., Shrewsbury, and G. E. Winter, assignors to Rice Barton Corporation, Worcester, Mass. Paper making machine press roll assembly. 2,390,692; Dec. 11.

Clemons, Dale R., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mounting electrical condensers. 2,390,776; Dec. 11.

Cleveland Hobbing Machine Co., The: *See*—
Merrill, G. L., Carlin, and Batorski, assignors.

Cohn, David J., Chicago, Ill. Oxygen tent unit. 2,390,693; Dec. 11.

Cohn, Harold J., Los Angeles, Calif., assignor to Automatik Venetian Hardware Corporation. Cordless Venetian blind. 2,390,826; Dec. 11.

Cole, Donald P., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency modulation system. 2,390,777; Dec. 11.

Colegrove, Charles E., Lakewood, Ohio, assignor to Sears, Roebuck and Company, Chicago, Ill. Sewing machine arm. 2,390,571; Dec. 11.

Coleman, Arnold B., Chicago, Ill. Projector utility case. 2,390,922; Dec. 11.

Colley, Arthur R., Oakwood, assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,390,870; Dec. 11.

Collins, Benjamin W., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Identification of materials. 2,390,512; Dec. 11.

Colorado Iron Works Company: *See*—
Abbott, R. H., and Dickson, assignors.

Commercial Controls Corporation: *See*—
Dohl, R. A., and Ziegelhoefer, assignors.

Conn, Roy: *See*—
Harrold, Harmon H., assignor.

Continental Can Company, Inc.: *See*—
Pittner, John A., assignor.
Vang, Alfred, assignor.

Conway, Donald J., assignor to American Utilities Corporation, Cleveland, Ohio. Apparatus for mixing and dispensing fluids of different densities. 2,390,871; Dec. 11.

Cook, Willard G., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical ground detector. 2,390,778; Dec. 11.

Copley, Michael J.: *See*—
Zellhoefer, G. F., Marvel, and Copley.

Corcoran, John J.: *See*—
Hull, S. P., Corcoran, and Lundy.

Cormier, Gustave J., Jr., San Antonio, Tex. Machine for untwisting rope and the like. 2,390,923; Dec. 11.

Corn Products Refining Company: *See*—
Cantor, Sidney M., assignor.

Cornell, Fay D.: *See*—
Jacobson, Edwin, assignor.

Cornell, Fay D., San Gabriel, and E. Jacobsen, Altadena, Calif.; said Jacobsen assignor to said Cornell. Transfer mechanism. 2,390,924; Dec. 11.

Corning Glass Works: *See*—
Dandt, William H., assignor.

Cornwell, Ralph T. K., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Producing butylene glycol by fermentation and recovering the product. 2,390,779; Dec. 11.

Cornwell, Ralph T. K., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Making coated textile materials and the articles produced therefrom. 2,390,780; Dec. 11.

Couse, Kibbey W., Newark, N. J. Power take-off structure. 2,390,513; Dec. 11.

Coyle, George E., Jr., Southampton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus and method for charging containers with volatile mixtures. 2,390,694; Dec. 11.

Cram, Harkness W., Mount Vernon, assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Wire coil insert. 2,390,514; Dec. 11.

Cram, Harkness W., Mount Vernon, and E. Eckener, Bronx, assignors to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Tool for securing inserts in tapped holes. 2,390,515; Dec. 11.

Craven, Howard F.: *See*—
Hill, James H., assignor.

Crawford, David J., U. S. Army, Durant, Miss. Gun sight mounting. 2,390,516; Dec. 11.

Crewe, Leonard C.: *See*—
Diehn, K. H., and Crewe.

Crompton & Knowles Loom Works: *See*—
Santon, Elliot A., assignor.

Currie, Frank L., Plainfield, N. J., and C. F. Stearns, Oceanside, assignors to The Western Union Telegraph Company, New York, N. Y. Multiplex telegraph system. 2,390,517; Dec. 11.

Curry, Paul N., assignor to Durametallic Corporation, Kalamazoo, Mich. Valve. 2,390,642; Dec. 11.

Curry, Robert S., Jr.: *See*—
Haskins, R., Jr., Esval, and Curry.

Cutler-Hammer, Inc.: *See*—
Kuhn, Clarence W., assignor.

Dahlberg, Arthur C., Geneva, and R. F. Holland, Seneca Castle, N. Y., assignors, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Pasteurizing milk. 2,390,872; Dec. 11.

Dalton, Benjamin W., Detroit, Mich. Sheet separator for printing presses. 2,390,827; Dec. 11.

Danner, Edward, Newark, Ohio. Glassware-forming apparatus. 2,390,925; Dec. 11.

Danner, Edward, Newark, Ohio. Hollow glassware-forming apparatus. 2,390,926; Dec. 11.

Dandt, William H., assignor to Corning Glass Works, Corning, N. Y. Trimethylethoxysilicane and its preparation. 2,390,518; Dec. 11.

Davis, Ernst W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricant compressor. 2,390,781; Dec. 11.

Davis, Harold S., and B. C. Redmon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of alkylene cyanohydrins. 2,390,519; Dec. 11.

Day, Howard Q., assignor of one-half to himself, and one-half to O. F. Day, Chicago, Ill. Apparatus for cutting curved surfaces. 2,390,927; Dec. 11.

Day, J. H., Company, The: *See*—
Rechtin, C. R., and Trostle, assignors.

Day, Olive F.: *See*—
Day, Howard Q., assignor.

Dean, John C., Douglaston, and R. T. Edwards, New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Treating paper stock. 2,390,695; Dec. 11.

Dearborn, Arthur S.: *See*—
Morgan, T. J., and Dearborn.

De Beaumont, P. S., Washington, D. C., assignor to Packard Motor Car Company, Detroit, Mich. Indicator device. 2,390,643; Dec. 11.

De Beauregard, Amedee C.: *See*—
Alkan, R., and de Beauregard.

De Brabander, Camiel, Newport, assignor to American Viscose Corporation, Wilmington, Del. Device for treating filamentary material. 2,390,572; Dec. 11.

Del Mar, Bruce E., West Los Angeles, and E. E. Van Dyke, Van Nuys, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Sealing gland. 2,390,928; Dec. 11.

De Lorimier, Alfred A., U. S. Army, Memphis, Tenn. Apparatus for locating foreign bodies. 2,390,520; Dec. 11.

De Luxe Products Corporation, The: *See*—
Flint, Charles R., assignor.

Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker control systems. 2,390,782; Dec. 11.

De Urzaiz, Luis: *See*—
Iseman, John W., assignor.

De Vlieg, Gerard A., Rockford, Ill. Machine for sharpening cutters. 2,390,521; Dec. 11.

Dickson, Thomas A.: *See*—
Abbott, R. H., and Dickson.

Diehn, Karl H., Dundalk, and L. C. Crewe, Baltimore, Md., assignors to Bethlehem Steel Company. Drawing. 2,390,644; Dec. 11.

Diffley, Peter J., Springfield, Mass. Handguard. 2,390,522; Dec. 11.

Dimick, William A., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Weighing scale beam. 2,390,606; Dec. 11.

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Freight car. 2,390,873; Dec. 11.

Dodge Manufacturing Corporation: *See*—
Firth, David, assignor.

Dohl, Robert A., and E. G. Ziegelhoefer, Rochester, N. Y., assignors to Commercial Controls Corporation. Envelope hopper for mail treating machines. 2,390,573; Dec. 11.

Dorman, Edgar P., assignor to The United Glass Bottle Manufacturers Limited, London, England. Profiling machine. 2,390,828; Dec. 11.

Dormeyer, A. F., Mfg. Company: *See*—
Setterlund, Sidney N., assignor.

D'Orsay, Marcelle, New York, N. Y. Nose guard for eyeglasses. 2,390,523; Dec. 11.

Dougherty, Patrick F.: *See*—
Barton, P. D., and Dougherty.

Douglas Aircraft Company, Inc.: *See*—
Del Mar, B. E., and Van Dyke, assignors.

D'Onville, Edmond L.: *See*—
Shoemaker, R. H., and D'Onville.

Dow Chemical Company, The: *See*—
Gregg, Charles L., assignor.
Keller, Cornelius H., assignor.

Drake, Harcourt C., Hempstead, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J. Rail flow detector mechanism. 2,390,783; Dec. 11.

Drobish, Adolph E., Oak Park, and R. A. Kay, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Device for testing electrical condensers. 2,390,784; Dec. 11.

Dummett, William M.: *See*—
York, H. H., and Dummett.

Dunham, Le Roy S., East Orange, and H. M. Teague, Bloomfield, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Primary battery. 2,390,574; Dec. 11.

Du Pont, E. I., de Nemours & Company: *See*—
Farlow, M. W., and Whitman, assignors.
Hennion, G. F., and Toussaint, assignors.
Hill, D. P., and Peirce, assignors.
Hunt, Madison, assignor.
Weinmayr, Viktor, assignor.

Durametallic Corporation: *See*—
Curry, Paul N., assignor.

Dyas, Clair S., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Stabilized solutions of ergot alkaloidal salts. 2,390,575; Dec. 11.

E. A. Laboratories, Inc.: *See*—
Aufiero, John R., assignor.

Eason, Sidney L., Charleston, S. C. Roofing or surfacing material. 2,390,697; Dec. 11.

Eaton Manufacturing Company: *See*—
Findley, Howard J., assignor.

Eckener, Erwin: *See*—
Cram, H. W., and Eckener.

Eckener, Erwin, Bronx, assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Insert assembling tool. 2,390,524; Dec. 11.

Edison, Thomas A., Incorporated: *See*—
Dunham, Le R. S., and Teague, assignors.

Edwards, Roy T.: *See*—
Dean, J. C., and Edwards.

Egan, Charles W., Troy, N. Y. Molding process and product thereof. 2,390,525; Dec. 11.

Elder, Joseph H., Arlington, Tex. Rubber substitute. 2,390,829; Dec. 11.

Elderfield, Robert C., New York, N. Y., and E. R. Blout, Cambridge, Mass., assignors to Eli Lilly and Company, Indianapolis, Ind. Butyrolactones and preparing them. 2,390,526; Dec. 11.

Electrolux Corporation: *See*—
Wahlberg, Eric C., assignor.

Elliott, Stanley B., assignor to Ferro Enamel Corporation, Cleveland, Ohio. Stabilized solutions of metallic salts. 2,390,830; Dec. 11.

Ellis, Charles L., Brownsville, Tex. Ground grip. 2,390,929; Dec. 11.

Emulsol Corporation, The: *See*—
Katzman, M., and Epstein, assignors.

Endebrock, Robert A., Cincinnati, Ohio. Soap saver tray. 2,390,874; Dec. 11.

Ensign, Albert E., Ypsilanti, and F. G. Shaub, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Magnesium retort. 2,390,698; Dec. 11.

Enterprise Railway Equipment Company: *See*—
Campbell, Argyle, assignor.

Eppler, Walter T., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer. 2,390,785; Dec. 11.

Epstein, Albert K.: *See*—
Katzman, M., and Epstein.

Erikson, Erik I.: *See*—
Swenson, F., and Erikson.

Esterbrook Steel Pen Manufacturing Co.: *See*—
Klagges, Henry C., assignor.

Esval, Orland E.: *See*—
Haskins, R., Jr., Esval, and Curry.

Eureka Vacuum Cleaner Company: *See*—
Hollatz, A. C., and Thomas, assignors.

Eureka Vacuum Cleaner Company: *See*—
Zellhoefer, G. F., Marvel, and Copley.

Eustathopulo, Marjorie E., New York, N. Y. Vaporizer. 2,390,699; Dec. 11.

Ex-Cell-O Corporation: *See*—
Markstrum, John A., assignor.

Fairbanks, Morse & Co.: *See*—
Dimick, William A., assignor.

Faulkhouser, Leonard E., and E. H. Glotfelty, assignors to Industrial Machine and Supply Co., Pittsburgh, Pa. Lubricating coupler. 2,390,930; Dec. 11.

Farlow, Mark W., and G. M. Whitman, Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 2,390,576; Dec. 11.

Farrington, Bruce B.: *See*—
Kavanagh, F. W., Farrington, and Clayton.

Fausset, Ernest R.: *See*—
Poole, L. E., and Fausset.

Fearon, Robert E., Tulsa, Okla., assignor to Well Surveys, Incorporated. Well logging method. 2,390,931; Dec. 11.

Federal Telephone & Radio Corporation: *See*—
Sherman, Vernon W., assignor.

Fellner, Phyllis K., Los Angeles, Calif. Flexible band knife. 2,390,700; Dec. 11.

Ferris, Donald K., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,390,577; Dec. 11.

Ferris, Warren R., Kingston, N. J., assignor to Radio Corporation of America. Secondary electron emitter. 2,390,701; Dec. 11.

Ferro Enamel Corporation: *See*—
Elliott, Stanley B., assignor.

Ferro Engineering Company: *See*—
Charman, W. M., and (Anthony, assignor).

Findley, Howard J., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Thermoelectric generator. 2,390,578; Dec. 11.

Finnegan, George B., Jr., trustee: *See*—
Van Winkle, Paul, assignor.

Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Attaching means for sheaves, etc. 2,390,875; Dec. 11.

Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Mounting for pulleys, etc. 2,390,876; Dec. 11.

Fisher, Hardin Y., Hillside, Ill., assignor to Nicoud Mfg. Co. Generator. 2,390,877; Dec. 11.

Fitch, Clifford E., assignor to The Aro Equipment Corporation, Bryan, Ohio. Hand operated tank lubricator. 2,390,831; Dec. 11.

Fitch, Karl E., Summit, N. J., W. V. K. Large, Glenwood Landing, and C. W. Lucek, Forest Hills, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Satellite telegraph exchange system. 2,390,656; Dec. 11.

Fitz, Henry, Washington, D. C. Case for cameras. 2,390,932; Dec. 11.

Flint, Charles R., La Porte, Ind., assignor to The De Luxe Products Corporation. Check valve. 2,390,527; Dec. 11.

Floridin Company: *See*—
Atwell, Thomas C., assignor.

Ford Motor Company: *See*—
Ensign, E. E., and Shaub, assignors.

Frank, Guenther A.: *See*—
Kleinberg, Benjamin W., assignor.

Frank, Mark H., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Overdrive gearing. 2,390,645; Dec. 11.

Freeman, Benjamin W.: *See*—
Newton, Charles E., assignor.

Freeman, Stephen E., Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Extraction of phosphatides, free fatty acids, and the like from glyceride oils. 2,390,528; Dec. 11.

Friedheim, Ernst A. H., New York, N. Y. Hydrazino-1,3,5-triazino derivatives of substituted phenylarsenic compounds. 2,390,529; Dec. 11.

Fritzberg, Edward L., Minneapolis, Minn., assignor to General Mills, Inc. Stirring device. 2,390,579; Dec. 11.

Fuglie, Elmer A., assignor to Winona Tool Mfg. Company, Winona, Minn. Crankshaft support and grinder. 2,390,933; Dec. 11.

Gail, Charles P., Monrovia, and J. B. Kendall, Los Angeles, Calif. Hydraulic hoist. 2,390,702; Dec. 11.

Garr, Donald E.: *See*—
Weaver, B. S., and Garr.

Garrison, Murray E.: *See*—
Sanderson, D., Pfaff, and Garrison.

Garrott, John H., Bloomfield, assignor to The Clark Thread Company, Newark, N. J. Yardage control mechanism. 2,390,703; Dec. 11.

Geiselman, Ralph A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,390,786; Dec. 11.

General Aniline & Film Corporation: *See*—
Heimbach, Newton, assignor.
Von Glahn, W. H., and Walsh, assignors.
Werner, Jesse, assignor.

General Electric Company: *See*—
Austin, K. B., and Young, assignors.
Bloomberg, David J., assignor.
Brinton, Harold G., assignor.
Haskell, Orin S., assignor.
Newman, Delbert F., assignor.
Suits, Chauncey G., assignor.
Weaver, B. S., and Garr, assignors.
Willcox, Thomas N., assignor.
Willcox, T. N., and Race, assignors.

General Mills, Inc.: *See*—
Fritzberg, Edward L., assignor.

General Motors Corporation: *See*—
Brill, William E., assignor.
Frank, Mark H., assignor.
Ferris, Donald K., assignor.
McCormack, Alex A., assignor.
Poole, L. E., and Fausset, assignors.
Wening, H. E., and Moule, assignors.

General Oil Heating Corporation: *See*—
Carter, George I., assignor.

General Printing Ink Corporation: *See*—
Hill, Frederick W., assignor.

General Railway Signal Company: *See*—
Rees, Frank X., assignor.

George, Armedos O., North Hollywood, Calif. Outboard motor dolly. 2,390,704; Dec. 11.

Gerhart, Howard L., Milwaukee, Wis., and L. M. Adams, Corpus Christi, Tex., assignors to Pittsburgh Plate Glass Company. Synthetic gum for paints and varnishes. 2,390,530; Dec. 11.

Gertler, Hyman, Montreal, Quebec, Canada. Metal bed spring. 2,390,580; Dec. 11.

Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,390,581; Dec. 11.

Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Oil pump. 2,390,832; Dec. 11.

Girdler Corporation, The: *See*—
Reed, Robert M., assignor.

Glotfelty, Edwin H.: *See*—
Faulkhouser, L. E., and Glotfelty.





Gohlke, Helen: *See*—
Gohlke, Theodore E., assignor.

Gohlke, Theodore E., assignor of one-half to H. Gohlke, Detroit, Mich. Belt drive reversing unit. 2,390,582; Dec. 11.

Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,390,583; Dec. 11.

Gray Iron Research Institute, Inc.: *See*—
Krause, Daniel E., assignor.

Gregg, Charles L., assignor to The Dow Chemical Company, Midland, Mich. Separating butadiene and butylene from hydrocarbon mixtures. 2,390,934; Dec. 11.

Greitzer, Meyer, Los Angeles, Calif. Chair. 2,390,878; Dec. 11.

Griffin, Norval B., and C. H. Brechner, assignors to The Selby Shoe Company, Portsmouth, Ohio. Conveyer system. 2,390,935; Dec. 11.

Guardian Electric Manufacturing Co.: *See*—
Obzarny, Theodore, assignor.

Guest, Diana: *See*—
Valdene, Jean P., assignor.

Gunter, Addison Y.: *See*—
Thompson, N. C., Gunter, Shaw, and Roe.

Haase, Henry D., Claremont, Calif. Brush. 2,390,705; Dec. 11.

Hagen, Harold F., Wellesley, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Propeller fan. 2,390,879; Dec. 11.

Hagren, Nils U.: *See*—
Alexandersson, H. V., and Hagren.

Haight, Norman L., Glen Ridge, assignor to Sperry Products, Inc., Hoboken, N. J. Follow-up mechanism. 2,390,787; Dec. 11.

Hall, Preston M., Worcester, Mass. Electrode holder. 2,390,936; Dec. 11.

Hansgirg, Fritz J., San Mateo, assignor to Marine Magnesium Products Corporation, South San Francisco, Calif. Manufacturing metallic magnesium. 2,390,531; Dec. 11.

Harder, Edwin L., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Loop-circuit supervisory system. 2,390,788; Dec. 11.

Hardin, Steven L., Philadelphia, Pa. Fish line assembly connector. 2,390,584; Dec. 11.

Harris, Herbert H.: *See*—
Allen, T. C., and Harris.

Harrold, Harmon H., assignor of one-half to R. Conn, Wooster, Ohio. Rotary reversing engine. 2,390,880; Dec. 11.

Hartford-Empire Company: *See*—
Aksomitas, William E., assignor.

Hartley, Cornelius, Prospect Park, N. J., assignor to Wright Aeronautical Corporation. Disconnect switch. 2,390,585; Dec. 11.

Haskell, Orin S., Schenectady, N. Y., assignor to General Electric Company. Making hollow propellers. 2,390,789; Dec. 11.

Haskins, Robert, Jr., Garden City, O. E. Esval, Huntington, and R. S. Curry, Jr., Baldwin, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Magnetic erection device for gyroscopes. 2,390,532; Dec. 11.

Hastings, Charles E., Riddle, Idaho. Piston and ring construction. 2,390,586; Dec. 11.

Hatfield, Robert L., Cleveland Heights, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,390,587; Dec. 11.

Hawley, Frank S.: *See*—
Kneisley, R. F., and Hawley.

Haynes, Robert L., Indianapolis, Ind., assignor to Radio Corporation of America. Light measuring method and system. 2,390,833; Dec. 11.

Hays, Russell R., Lawrence, Kans. Well drilling apparatus. 2,390,646; Dec. 11.

Hearon, Robert J., Arlington, Va. Demonstration apparatus. 2,390,706; Dec. 11.

Heckman, August E., Seaford, N. Y. Screw die-head. 2,390,647; Dec. 11.

Heckman, John A., assignor to J. F. Barnes, as trustee, Elmhurst, Ill. Fan. 2,390,588; Dec. 11.

Hegener, Joseph, Llanerch, Pa., assignor to Radio Corporation of America. Horn loud-speaker. 2,390,834; Dec. 11.

Heil, Vernon E.: *See*—
Larsen, E. I., Heil, and Swazy.

Heimbach, Newton, Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic filter and anti-halation layers. 2,390,707; Dec. 11.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Regenerating contact material. 2,390,708; Dec. 11.

Henderson, James A., Empire, Oreg. Portable drill support. 2,390,709; Dec. 11.

Hennion, George F., South Bend, Ind., and N. F. Toussaint, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylating aromatic compounds. 2,390,835; Dec. 11.

Hennion, George F., South Bend, Ind., and N. F. Toussaint, Louisville, Ky., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylating aromatic compounds. 2,390,836; Dec. 11.

Henschel, Chester J., New York, N. Y. Dental engine accessory equipment. 2,390,710; Dec. 11.

Hertz, Irving, et al.: *See*—
Young, Edgar C., assignor.

Heth, Sherman C.: *See*—
Krause, N. R., and Heth.

Heuver, Herbert M., Dayton, Ohio. Apparatus for determining pressure distribution on airfoils and the like. 2,390,534; Dec. 11.

Higham, William W., assignor, by mesne assignments, to International Detrola Corporation, Elkhart, Ind. Vending machine. 2,390,535; Dec. 11.

Highberg, Axel L., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Spark control. 2,390,881; Dec. 11.

Hill, Donald P., Wilmington, Del., and G. A. Peirce, Westfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of sulphamic acid. 2,390,648; Dec. 11.

Hill, Frederick W., Rutherford, N. J., assignor to General Printing Ink Corporation, New York, N. Y. Machine for threading and cutting tubular articles. 2,390,533; Dec. 11.

Hill, James H., assignor of forty-nine per cent to H. F. Craven, Long Beach, Calif. Welding rod holder. 2,390,837; Dec. 11.

Hoffman, Homer V., South Whitley, and V. R. Kaufman, Pierceton, assignors to K M & H Corporation, Fort Wayne, Ind. Indexing mechanism. 2,390,649; Dec. 11.

Holland Company: *See*—
Holland, Cyrus J., assignor.

Holland, Cyrus J., Chicago, Ill., assignor to Holland Company. Manufacturing volute springs. 2,390,937; Dec. 11.

Holland, Robert F.: *See*—
Dahlberg, Arthur C., and Holland.

Hollatz, Arthur C., and R. G. Thomas, Bloomington, Ill., assignors, by mesne assignments, to Eureka Vacuum Cleaner Company, Detroit, Mich. Control for refrigerating systems. 2,390,650; Dec. 11.

Holmes, Morris P., Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt. Two-speed drive mechanism. 2,390,589; Dec. 11.

Holmes, Morris P., Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt. Hydraulic device. 2,390,590; Dec. 11.

Holmstrom, John G., assignor to Kenworth Motor Truck Corporation, Seattle, Wash. Remote control for variable speed transmissions. 2,390,711; Dec. 11.

Hopkins, David W., Philadelphia, Pa. Declutching devices for power-driven butterfly valves. 2,390,882; Dec. 11.

Houdry, Eugene J., Ardmore, and R. W. Blue, Swarthmore, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Separation of hydrocarbon gases. 2,390,536; Dec. 11.

Houdry Process Corporation: *See*—
Houdry, E. J., and Blue, assignors.

Houghton, Leslie W.: *See*—
Chatterjea, P. K., and Houghton.

Hubbell, William F., Biloxi, Miss. Circle cutting tool. 2,390,938; Dec. 11.

Huber, J. M., Corporation: *See*—
Williams, Ira, assignor.

Huck, Louis C., Grosse Pointe Shores, assignor, by mesne assignments, to Huxon Holding Corporation, Detroit, Mich. Metal plate dimpling machine. 2,390,537; Dec. 11.

Hudgins, Houlder, Greenwich, Conn., assignor to Sloane Blabon, Trenton, N. J. Decorative material and producing the same. 2,390,712; Dec. 11.

Huebner, Herbert A., et al.: *See*—
Young, Edgar C., assignor.

Huff, Thomas H., Merion, Pa. Airplane. 2,390,939; Dec. 11.

Hull, Samuel P., Yonkers, N. Y., J. J. Corcoran, Cleveland, Ohio, and B. A. Lundy, Larchmont; said Lundy assignor to Railroad Accessories Corporation, New York, N. Y. Cabling strap. 2,390,940; Dec. 11.

Hunt, Madison, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylsulphenyl dithiocarbamates. 2,390,713; Dec. 11.

Huxon Holding Corporation: *See*—
Huck, Louis C., assignor.

I. T. E. Circuit Breaker Company: *See*—
Pokorny, Frank J., assignor.
Scott, William M., Jr., assignor.

Immel, Ralph B., Wilkinsburg, and L. Pierce, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Resistance unit. 2,390,790; Dec. 11.

Imperial Chemical Industries Limited: *See*—
Taylor, Harold, assignor.

Imperial Chemical Industries Limited, et al.: *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson, assignors.

Industrial Machine and Supply Co.: *See*—
Faulkhouser, L. E., and Glotfelty, assignors.

International Detrola Corporation: *See*—
Higham, William W., assignor.

International Pulverizing Corporation: *See*—
Andrews, Norwood H., assignor.

Iseman, John W., assignor of one-half to L. De Urzais, New York, N. Y. Rotary burnishing tool. 2,390,651; Dec. 11.

Iverson, John O., assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,390,883; Dec. 11.

Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Optical range finder. 2,390,652; Dec. 11.

Janes, Milton, Lakewood, Ohio, assignor to National Carbon Company, Inc. Electrolytic method for producing oxygen. 2,390,591; Dec. 11.

Jansky, Karl G., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phase shifter. 2,390,884; Dec. 11.

Jernstedt, George W., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective transparent coatings. 2,390,791; Dec. 11.

Jespersen, Helgo W., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Power transmission device. 2,390,792; Dec. 11.

Jessen, Le Roy S., Dayton, Ohio. Tow target releasing device. 2,390,538; Dec. 11.

Johnson, Arthur E., Taft, Calif. Rotary tool booster. 2,390,714; Dec. 11.

Johnson, James P., Cleveland, assignor to The Aro Equipment Corporation, Bryan, Ohio. Adjustable nut lock. 2,390,838; Dec. 11.

Jones, Clifford E., Peru, Ind. Mail box. 2,390,715; Dec. 11.

Jones, Franklin D., Upper Darby, assignor to American Chemical Paint Company, Ambler, Pa. Methods and compositions of killing weeds. 2,390,941; Dec. 11.

Jones, Harry S., Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,390,793; Dec. 11.

Jones & Lamson Machine Company: *See*—
Holmes, Morris P., assignor.

Jones, William E., Tulia, Tex. Traffic signal light. 2,390,592; Dec. 11.

K M & H Corporation: *See*—
Hoffman, H. V., and Kaufman, assignors.

Katcher, Morris, New York, N. Y. Oil filter. 2,390,539; Dec. 11.

Katzman, Morris, and A. K. Epstein, assignors to The Emulsol Corporation, Chicago, Ill. Ethers of alcohol amines. 2,390,942; Dec. 11.

Kaufman, Von R.: *See*—
Hoffman, H. V., and Kaufman.

Kavanagh, Frank W., B. B. Farrington, and J. O. Clayton, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Compounded hydrocarbon oil. 2,390,943; Dec. 11.

Kay, Riley A.: *See*—
Drobish, A. E., and Kay.

Keller, Cornelius H., San Francisco, Calif., assignor to The Dow Chemical Company, Midland, Mich. Recovery of copper from copper-bearing solutions. 2,390,540; Dec. 11.

Kelley, Francis G., assignor to Peerless Handcuff Company, Springfield, Mass. Handcuff. 2,390,885; Dec. 11.

Kelly, John W., La Canada, Calif, assignor to Adel Precision Products Corp. Power pump operated single line hydraulic system. 2,390,716; Dec. 11.

Kendall, James B.: *See*—
Gall, C. P., and Kendall.

Kenworth Motor Truck Corporation: *See*—
Holmstrom, John G., assignor.

Kereszтesy, John C., Westfield, and J. R. Stevens, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Dicarboxylic acid derivatives of lower alkyl ethers of vitamin $B_6$ and preparing the same. 2,390,593; Dec. 11.

Kilgore, Robert E., Detroit, assignor to N. A. Woodworth Company, Ferndale, Mich. Cutoff toolholder. 2,390,653; Dec. 11.

King, Alexander H., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Multiple magneto drive. 2,390,886; Dec. 11.

King, Charles F., Cincinnati, Ohio, assignor to The Lithographic Technical Foundation, Inc., New York, N. Y. Preparation of lithographic plates. 2,390,944; Dec. 11.

Kinsel, Anthony: *See*—
Breth, F. W., and Kinsel.

Kittinger, Charles E., Missoula, Mont. Raising sunken ships. 2,390,654; Dec. 11.

Klagges, Henry C., Collingswood, assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Writing implement. 2,390,541; Dec. 11.

Kleinberg, Benjamin W., assignor, by mesne assignments, to G. A. Frank, doing business as Lapelle Co., New York, N. Y. Dispensing container. 2,390,945; Dec. 11.

Kling, Alan L., Newtonville, assignor of one-third to C. F. Laundrey, Needham, and one-third to G. A. Bloom, Newtonville, Mass. Coating compositions. 2,390,887; Dec. 11.

Klingaman, George W., Lynnport, Pa., assignor to Radio Corporation of America. Radio frequency coupling network. 2,390,539; Dec. 11.

Knebel, Ernst J. B., Upsala, Sweden. Manufacture of vinegar. 2,390,717; Dec. 11.

Kneisley Electric Company: *See*—
Kneisley, R. F., and Hawley, assignors.

Kneisley, Richard F., and F. S. Hawley, Toledo, Ohio, assignor to Kneisley Electric Company. Electronic fence circuit control. 2,390,946; Dec. 11.

Knight, Cosler D., Chicago, Ill., assignor to Zenith Radio Corporation. Frequency response control. 2,390,794; Dec. 11.

Knox, Harry A., Washington, D. C. Track shoe. 2,390,542; Dec. 11.

Koci, Ludvik J., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Compensating thermostat. 2,390,947; Dec. 11.

Koci, Ludvik J., Chicago, Ill., assignor to Chicago Flexible Shaft Company. Compensating thermostat. 2,390,948; Dec. 11.

Koren, Helman W., Bronx, assignor to Sonotone Corporation, Elmsford, N. Y. Attenuator. 2,390,840; Dec. 11.

Kotowicz, Stefan, Chicago, Ill. Peening hammer. 2,390,795; Dec. 11.

Kovalsky, Joseph F., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating apparatus. 2,390,796; Dec. 11.

Krause, Daniel E., assignor, by mesne assignments, to Gray Iron Research Institute, Inc., Columbus, Ohio. Heat-resistant cast iron. 2,390,594; Dec. 11.

Krause, Norman R., and S. C. Heth, assignors to J. I. Case Company, Racine, Wis. Feeding mechanism. 2,390,949; Dec. 11.

Kreager, Paul H., Stonelelgh, Md., assignor to Bendix Aviation Corporation, New York, N. Y. Directional antenna system. 2,390,543; Dec. 11.

Kuhn, Clarence W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Overload circuit breaker. 2,390,718; Dec. 11.

Kurth, Fred W., Farmingdale, N. J. Tricycle. 2,390,719; Dec. 11.

Lago, Francisco, Staten Island, N. Y. Hand punch press. 2,390,655; Dec. 11.

Lamb, Thomas, New York, N. Y. Handle. 2,390,544; Dec. 11.

Lanfranconi, Frederick A., Surbiton, England. Tap. 2,390,950; Dec. 11.

Lang, Eugene M., New York, assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Inserting tool for tangless inserts. 2,390,545; Dec. 11.

Langer, Bernard F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Indicating system. 2,390,797; Dec. 11.

Langley Aviation Corporation: *See*—
Bendix, Vincent, assignor.

Lapelle Co.: *See*—
Kleinberg, Benjamin W.

Large, Wayne V. K.: *See*—
Fitch, K. E., Large, and Lucek.

Larsen, Earl I., V. E. Hell, and E. F. Swazy, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrical contact. 2,390,595; Dec. 11.

Larsen, Einer W., Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for positioning parts. 2,390,596; Dec. 11.

Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separation of hydrocarbons. 2,390,720; Dec. 11.

Laundrey, Chalmers F., et al.: *See*—
Kling, Alan L., assignor.

Law, George H., and J. H. Purse, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Insecticides. 2,390,597; Dec. 11.

Le Clair, Camille C. S., Ealing, London, England. Reciprocating pump. 2,390,798; Dec. 11.

Lederle Laboratories, Inc.: *See*—
Carlson, G. H., and Safir, assignors.
Dyas, Clair S., assignor.
Stirn, Frank E., assignor.

Lepkowski, Thomas, Washington, D. C. Cable or rope capping machine. 2,390,598; Dec. 11.

Leum, Leonard N., Upper Darby, and F. G. Clapetta, Yeadon, assignors to The Atlantic Refining Company, Philadelphia, Pa. Production of isobutylene. 2,390,951; Dec. 11.

Levine, Benjamin B., Pittsburgh, Pa. Parasol. 2,390,952; Dec. 11.

Lewis, Clifford L.: *See*—
Scott, W. W., and Lewis.

Lewis, Howard B., Venice, assignor to B. F. McDonald Company, Los Angeles, Calif. Eye protector. 2,390,599; Dec. 11.

Liber, Walter F., Meriden, Conn. Steady rest for lathes. 2,390,888; Dec. 11.

Liller, Elmer T.: *See*—
Truba, D. O., and Liller.

Lilly, Ell, and Company: *See*—
Elderfield, R. C., and Blout, assignors.

Limbach, Alex, Carmel, N. Y. Closure for containers. 2,390,889; Dec. 11.

Line Material Company: *See*—
Steinmayer, Alwin G., assignor.

Linotype Parts Company: *See*—
Swenson, F., and Erikson, assignors.

Linsenmeyer, John Z., and L. C. Poole, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,390,799; Dec. 11.

Lisenbee, George W.: *See*—
Bishop, William C., assignor.

Lithographic Technical Foundation, Inc., The: *See*—
King, Charles F., assignor.





Longden, Eric, Greenside, Johannesburg, Transvaal, Union of South Africa. Filter. 2,390,841; Dec. 11.

Loudermilk, Earl R., Kansas City, Mo. Combination cigarette dispenser and ash tray. 2,390,657; Dec. 11.

Lucek, Charles W.: *See*—
Fitch, K. E., Large, and Lucek.

Ludlow Valve Manufacturing Co., Inc., The: *See*—
Weinberg, Edwin A., assignor.

Lundy, Beverly A.: *See*—
Hull, S. P., Corcoran, and Lundy.

Luster, Donald R.: *See*—
Rutherford, P. B., and Luster.

MacFarland, Allison M., assignor to Burgess Battery Company, Freeport, Ill. Soldering. 2,390,800; Dec. 11.

MacPheat, Alexander M., Brookfield, E. L. Moon, Western Springs, and E. Sirp, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Punch press mechanism. 2,390,600; Dec. 11.

Madsen, Carl J., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Transformer. 2,390,800; Dec. 11.

Magdeburger, Edward C., trustee: *See*—
Barrett, Charles G., assignor.

Mahoney, John R.: *See*—
Burgwin, S. L. Mahoney, and Bichsel.

Maier, August R., Oil City, Pa., assignor to Oil Well Supply Company. Blow out seal for well drilling rotaries. 2,390,601; Dec. 11.

Maier, August R., Oil City, Pa., assignor to Oil Well Supply Company. Pump piston rod packing assembly. 2,390,602; Dec. 11.

Mallgraf, Ferdinand, Little Neck, N. Y. Nonmetallic ferrule for caps of containers. 2,390,721; Dec. 11.

Mallory, Marion, Detroit, Mich. Degasser for internal-combustion engines. 2,390,603; Dec. 11.

Mallory, Marion, Detroit, Mich. Degasser for internal-combustion engines. 2,390,604; Dec. 11.

Mallory, P. R., & Co., Inc.: *See*—
Larsen, E. I., Hell, and Swazy, assignors.

Mann, Sydney, Narberth, assignor to The Atlantic Refining Company, Philadelphia, Pa. Alkylation of aromatic hydrocarbons. 2,390,953; Dec. 11.

Marine Magnesium Products Corporation: *See*—
Hanagirg, Fritz J., assignor.

Markel, John M., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Harrow. 2,390,954; Dec. 11.

Markey, Roscoe I., Montclair, assignor to Pollak Manufacturing Company, Arlington, N. J. Joint for exhaust manifold systems. 2,390,801; Dec. 11.

Markstrum, John A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Surface broach. 2,390,722; Dec. 11.

Marmont, George H., assignor to Bendix Aviation Corporation, Detroit, Mich. Ignition system. 2,390,842; Dec. 11.

Mars, Nick, Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Calibrating tool. 2,390,802; Dec. 11.

Marschner, Charles F., Normandy, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Process and apparatus for manufacturing plastic articles. 2,390,803; Dec. 11.

Marshall, Jerry R.: *See*—
Bennett, H. T., and Marshall.

Marton-Gwilliam, Vivian C. E.: *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson.

Martin, Charles C., Cleveland Heights, assignor to David Round & Son, Garfield Heights, Ohio. Safety lowering and control mechanism for winches and the like. 2,390,891; Dec. 11.

Martin, Merlin L.: *See*—
Alford, E. L., and Martin.

Martin, Victor S.: *See*—
Barrans, W. T., and Martin.

Marvel, Carl S.: *See*—
Zellhoefer, G. F., Marvel, and Copley.

Marvel, Harvey E., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Check controlled stop device. 2,390,605; Dec. 11.

Masters, Raymond H., Salt Lake City, Utah. Internal-combustion engine. 2,390,723; Dec. 11.

Mather, Glenn, New York, N. Y. Stool. 2,390,546; Dec. 11.

May, Everett L.: *See*—
Price, D., and May.

Mays, Wilburt W., Steelton, Pa. Bottle closure retainer. 2,390,724; Dec. 11.

McCauley, William E., Champaign, Ill., and C. W. Veach, Riverside, Calif., assignors to Board of Trustees of the University of Illinois, Urbana, Ill. Method and machine for vaporizing insecticides and other liquids. 2,390,843; Dec. 11.

McCormack, Alex A., assignor to General Motors Corporation, Dayton, Ohio. Pipe coupling. 2,390,892; Dec. 11.

McCoy, Howard M., Fairfield, Ohio. Torque amplifier. 2,390,547; Dec. 11.

McCurdy, Clifford H., Detroit, Mich. Partition structure for trucks. 2,390,606; Dec. 11.

McDonald, B. F., Company: *See*—
Lewis, Howard B., assignor.

McDonnell Aircraft Corporation: *See*—
Marschner, Charles F., assignor.

McDonnell, Arthur E., Memphis, Tenn. Fire escape. 2,390,955; Dec. 11.

McFee, James: *See*—
McNamara, W. L., and McFee.

McLean, John A., Jr., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Propeller type fan. 2,390,804; Dec. 11.

McNamara, William L., Lancaster, Ohio, and J. McFee, Camp Cooke, Calif., assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio. Lehr loader. 2,390,725; Dec. 11.

McNeer, Roscoe C., Richmond, Va. Antiskid device. 2,390,956; Dec. 11.

McNish, Alvin G., Washington, D. C., assignor to United States of America, as represented by the Secretary of War. Quadrantal corrector for magnetic compasses. 2,390,844; Dec. 11.

McNitt, Robert J., Perth Amboy, N. J. Operating electrolytic cells. 2,390,548; Dec. 11.

Melidoni, Constantine, New York, N. Y. Piston expander. 2,390,845; Dec. 11.

Mellinger, Arthur G., Lancaster, Pa. Hydraulic power unit. 2,390,957; Dec. 11.

Merck & Co., Inc.: *See*—
Kereszтesy, J. C., and Stevens, assignors.

Merrill, George L., East Cleveland, T. F. Carlin, Cleveland, and E. J. Batorski, Garfield Heights, assignors to The Cleveland Hobbing Machine Co., Euclid, Ohio. Hobbing machine. 2,390,607; Dec. 11.

Merryman, James A., and E. M. Wharff, Jr., Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Making metallic articles. 2,390,805; Dec. 11.

Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Recording apparatus and method. 2,390,549; Dec. 11.

Mid-Continent Petroleum Corporation: *See*—
Bennett, H. T., and Marshall, assignors.

Miller Company, The: *See*—
Naysmith, Shirley R., assignor.

Miller, William A., Port Jefferson, and E. R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America. Frequency multiplier. 2,390,608; Dec. 11.

Minich, Arthur, Mountainside, assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Bodying agent for liquid hydrocarbons. 2,390,609; Dec. 11.

Minneapolis-Honeywell Regulator: *See*—
Gille, Willis H., assignor.

Mitchell, Robert, Detroit, Mich. Threaded fastener. 2,390,726; Dec. 11.

Mock, Frank C., assignor to Bendix Products Corporation, South Bend, Ind. Liquid control mechanism. 2,390,658; Dec. 11.

Modern, Albert E. H., West New York, and J. L. Burke, Weehawken, N. J. Traffic light. 2,390,610; Dec. 11.

Moon, Elmer L.: *See*—
MacPheat, A. M., Moon, and Sirp.

Moore, George A., New York, N. Y., assignor to Shellmar Products Company, Mount Vernon, Ohio. Apparatus for sealing containers. 2,390,550; Dec. 11.

Morgan, Thomas J., Chicago, and A. S. Dearborn, Hinsdale, Ill., assignors to Ampro Corporation. Film retainer for cinematograph sprockets. 2,390,893; Dec. 11.

Morrison, Montford, Upper Montclair, N. J. Oscillation generator system. 2,390,659; Dec. 11.

Morse, John F., Hudson, Ohio. Film spool. 2,390,894; Dec. 11.

Moule, Rex E.: *See*—
Wening, H. E., and Moule.

Muenzen, Frank R., New Rochelle, N. Y. Folding, reclining bed board. 2,390,660; Dec. 11.

Muskat, Irving E., Glenside, Pa., and F. Strain, Norton Center, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Unsaturated ester-amides. 2,390,551; Dec. 11.

Nagel, Nathan, et al.: *See*—
Young, Edgar C., assignor.

Nagel, Theodore, Brooklyn, N. Y. Oil burning system. 2,390,806; Dec. 11.

National Carbon Company, Inc.: *See*—
Janes, Milton, assignor.

National Cash Register Company, The: *See*—
Colley, Arthur R., assignor.

National Cylinder Gas Company: *See*—
Pelland, Raymond L., Jr., assignor.

National Oil Products Company: *See*—
Arnold, A., and Schreffer, assignors.
Price, D., and May assignors.

National Supply Company, The: *See*—
Shoup, Stanley S., assignor.

Naysmith, Shirley R., assignor to The Miller Company, Meriden, Conn. Fluorescent lighting fixture. 2,390,807; Dec. 11.

Nelson, Richard N., Black River Falls, Wis. Explosive bullet. 2,390,552; Dec. 11.

Nesset, Naurice M., assignor to Barter Laboratories, Inc., Glenview, Ill. Treatment of blood. 2,390,727; Dec. 11.

Newman, Delbert F., Schenectady, N. Y., assignor to General Electric Company. Refrigerator. 2,390,808; Dec. 11.

Newton, Charles E., Marlboro, Mass., assignor to B. W. Freeman, Cincinnati, Ohio. Ornamenting machine. 2,390,728; Dec. 11.

Nicoud Mfg. Co.: *See*—
Fisher, Hardin Y., assignor.
Nixon, Virgil H., Joplin, Mo. Wedge grip scraper blade. 2,390,611; Dec. 11.
Nordstrom, Gustaf E., assignor to American Fibre Corporation, Gardner, Mass. Textile twisting machine. 2,390,729; Dec. 11.
Northrop Aircraft, Inc.: *See*—
Northrop, J. K., and Pavlecka, assignors.
Northrop, John K., Los Angeles, and V. H. Pavlecka, Pacific Palisades, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Airplane structure. 2,390,730; Dec. 11.
Nuodex Products Co., Inc.: *See*—
Minich, Arthur, assignor.
Obszarny, Theodore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Hand grip control switch. 2,390,846; Dec. 11.
Ogg, Leon L., Creston, Iowa. Reinking machine for typewriter ribbons. 2,390,612; Dec. 11.
Oil Well Supply Company: *See*—
Maier, August R., assignor.
Okonite-Callender Cable Company, Incorporated, The: *See*—
Bennett, Charles E., assignor.
Oliphant, Willard E., New York, N. Y. Vector resolving integrator. 2,390,613; Dec. 11.
Olson, Harry F., Haddon Heights, N. J., assignor to Radio Corporation of America. Signal translating apparatus. 2,390,847; Dec. 11.
Oplinger, Kirk A., Verona, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit-controlling apparatus. 2,390,809; Dec. 11.
Oxhandler, Samuel, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn. Airplane door lock. 2,390,731; Dec. 11.
Pabst, Walter W., Elizabeth, N. J. Conveyer mechanism. 2,390,895; Dec. 11.
Packard Motor Car Company: *See*—
De Beaumont, Pierre S., assignor.
Page, John H., assignor to The Shaw-Walker Company, Muskegon, Mich. Fire-resisting cabinet. 2,390,732; Dec. 11.
Parilla, Arthur R., Garden City, N. Y., assignor to Republic Aviation Corporation. Aircraft structure. 2,390,661; Dec. 11.
Parsons, John S., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical distribution system. 2,390,810; Dec. 11.
Pash, Robert, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for making annular articles. 2,390,614; Dec. 11.
Paterson, Leslie M., Aylesbury, England, assignor to J. L. Thomson Manufacturing Company, Waltham, Mass. Rivet setting machine. 2,390,615; Dec. 11.
Pavlecka, Vladimir H.: *See*—
Northrop, J. K., and Pavlecka.
Peerless Handcuff Company: *See*—
Kelley, Francis G., assignor.
Peirce, George A.: *See*—
Hill, D. P., and Peirce.
Pelland, Raymond L., Jr., assignor to National Cylinder Gas Company, Chicago, Ill. Torch holding and adjusting device. 2,390,896; Dec. 11.
Penn-Standard Soie Cementing Process, Inc.: *See*—
Anderson, William S., assignor.
Perlin, Samuel, New York, N. Y. Portfolio. 2,390,958; Dec. 11.
Perry, Edward W., Euclid, assignor of thirty per cent to W. A. Stuart, Cleveland Heights, and thirty per cent to T. F. Schilling, Elyria, Ohio. Airplane propeller. 2,390,733; Dec. 11.
Perry, Walter M., Glenbrook, Conn. One-piece self-locking nut. 2,390,662; Dec. 11.
Petzinger, Ambrose J., Paterson, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical measuring device. 2,390,811; Dec. 11.
Pfaff, Harry E.: *See*—
Sanderson, D., Pfaff, and Garrison.
Pfenninger, Hans, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Gas turbine power plant. 2,390,959; Dec. 11.
Phillips Petroleum Company: *See*—
Latchum, John W., Jr., assignor.
Pierce, Alan E., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Disulphanilylguanidine and preparing same. 2,390,734; Dec. 11.
Pierce, Lawrence: *See*—
Immel, R. B., and Pierce.
Pittner, John A., West View, Pa., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Making tapered pails. 2,390,553; Dec. 11.
Pittsburgh Corning Corporation: *See*—
Staples, Julian P., assignor.
Pittsburgh Plate Glass Company: *See*—
Freeman, Stephen E., assignor.
Gerhart, H. L., and Adams, assignors.
Muskat, I. E., and Strain, assignors.
Plum, Stephen H., II, Madison, N. J. Typewriting and manifolding. 2,390,554; Dec. 11.
Pokorny, Frank J., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Circuit breaker operating mechanism. 2,390,735; Dec. 11.
Pollak Manufacturing Company: *See*—
Markey, Roscoe L., assignor.
Pollard, John H., Dallas, Tex. Embossed display. 2,390,663; Dec. 11.
Poole, Lloyd C.: *See*—
Linsenmeyer, J. Z., and Poole.
Poole, Lora E., and E. R. Fausset, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Machine for manufacturing dynamo armatures. 2,390,897; Dec. 11.
Poor & Company: *See*—
Chester, A. E., and Reisinger, assignors.
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Tabulation control system. 2,390,664; Dec. 11.
Poythress, William P., & Company, Inc.: *See*—
Richardson, Andrew G., assignor.
Price, Donald, New York, N. Y., and E. L. May, Chevy Chase, Md., assignors to National Oil Products Company, Harrison, N. J. Ketonic rosin derivatives. 2,390,736; Dec. 11.
Prosser, Garold W., Rock Island, Ill. Baby's bottle holder. 2,390,737; Dec. 11.
Proulx, Leonard E., Arlington, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Channel closing machine. 2,390,616; Dec. 11.
Purse, John H.: *See*—
Law, G. H., and Purse.
Putt, Harold L., Long Beach, Calif. Seat locator. 2,390,665; Dec. 11.
Race, Hubert H.: *See*—
Willcox, T. N., and Race.
Radio Corporation of America: *See*—
Berry, Henry W., assignor.
Ferris, Warren R., assignor.
Haynes, Robert L., assignor.
Hegener, Joseph, assignor.
Klingaman, George W., assignor.
Miller, W. A., and Shenk, assignors.
Olson, Harry F., assignor.
Singer, Kurt, assignor.
Thompson, Walter S., assignor.
Railroad Accessories Corporation: *See*—
Hull, S. P., Corcoran, and (Lundy, assignor).
Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Window opener. 2,390,617; Dec. 11.
Rayhon, Sidney C., Dawson, Ga. Internal-combustion engine. 2,390,960; Dec. 11.
Rechtin, Clarence R., Bridgetown, and J. E. Trostle, assignors to The J. H. Day Company, Cincinnati, Ohio. Turbodissolver. 2,390,898; Dec. 11.
Redmon, Bryan C.: *See*—
Davis, H. S., and Redmon.
Reed, Robert M., assignor to The Girdler Corporation, Louisville, Ky. Gas processing. 2,390,899; Dec. 11.
Rees, Frank X., assignor to General Railway Signal Company, Rochester, N. Y. Decoding relay system. 2,390,666; Dec. 11.
Reid Brothers Company, Inc.: *See*—
Woodbury, Stephen E., assignor.
Reisinger, Frederick F.: *See*—
Chester, A. E., and Reisinger.
Remington Arms Company, Inc.: *See*—
Christie, Lewis D., assignor.
Rutherford, P. B., and Luster, assignors.
Scott, W. W., and Lewis, assignors.
Republic Aviation Corporation: *See*—
Parilla, Arthur R., assignor.
Shaw, Edward W., assignor.
Resinous Products & Chemical Company, The: *See*—
Bruson, Herman A., assignor.
Revere Copper and Brass Incorporated: *See*—
Bunn, Edward S., assignor.
Rice Barton Corporation: *See*—
Clem, E. W., and Winter, assignors.
Richardson, Andrew G., assignor to William P. Poythress & Company, Inc., Richmond, Va. Antispasmodic agents. 2,390,555; Dec. 11.
Richter, Curt P., Baltimore, Md., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Rodenticide. 2,390,848; Dec. 11.
Roe, Viola B., administratrix: *See*—
Roe, Walter E.
Roehm, William A., Rockville Centre, assignor to Royal Lace Paper Works, Brooklyn, N. Y. Printing and embossing and apparatus for performing the same. 2,390,618; Dec. 11.
Rogers Diesel and Aircraft Corporation: *See*—
Bayles, Allison L., assignor.
Round, David, & Son: *See*—
Martin, Charles C., assignor.
Royal Lace Paper Works: *See*—
Roehm, William A., assignor.
Rutherford, Peter B., and D. R. Luster, Herkimer, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Grenade launcher. 2,390,738; Dec. 11.
Ruthruff, Robert F., Chicago, Ill. Catalytic cracking of partially oxidized hydrocarbons. 2,390,556; Dec. 11.
Safir, Sidney R.: *See*—
Carlson, G. H., and Safir.





Sanderson, Donald, Bloomfield Hills, H. E. Pfaff, Detroit, Mich., and M. E. Garrison, Compton, Calif. Polymerized rubber-like product and making the same. 2,390,961; Dec. 11.
Santon, Elliot A., assignor, to Crompton & Knowles Loom Works, Worcester, Mass. Positively actuated thread holder for looms. 2,390,962; Dec. 11.
Santon, Elliot A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle check for looms. 2,390,963; Dec. 11.
Sargent & Company: *See*—
Oxhandler, Samuel, assignor.
Voight, Henry G., assignor.
Savoy, Ernest J., Kansas City, Mo. Penknife. 2,390,964;
Scaife, Arthur J., Detroit, Mich. Waterproofed combat vehicle. 2,390,557; Dec. 11.
Scherbatskoy, Serge A., Tulsa, Okla. System and apparatus for measuring cloud height and thickness. 2,390,739; Dec. 11.
Scherbatskoy, Serge A., Tulsa, Okla., assignor to Well Surveys, Incorporated. Central electrode support. 2,390,965; Dec. 11.
Schilling, Theodore F., et al.: *See*—
Perry, Edward W., assignor.
Schmid, Carl J., assignor to Julius Schmid, Inc., New York, N. Y. Package and method of packing. 2,390,900;
Schmid, Julius, Inc.: *See*—
Schmid, Carl J., assignor.
Schoen, Edward H., Honolulu, Hawaii. Engine crank shaft to piston connecting mechanism. 2,390,558; Dec. 11.
Schramm, Carl, North Coventry, assignor to Smyth Manufacturing Company, Hartford, Conn. Book signature feeding method. 2,390,901; Dec. 11.
Schreffler, Carl B.: *See*—
Arnold, A., and Schreffler.
Schubert, Otto: *See*—
Abrams, O. A., and Schubert.
Schwendner, Anthony F., Ridley Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Governing apparatus. 2,390,740; Dec. 11.
Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Air blast circuit breaker and control therefor. 2,390,966; Dec. 11.
Scott, Wilson W., Independence, Mo., and C. L. Lewis, Hanford, Wash., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Gauging machine. 2,390,741; Dec. 11.
Sears, Roebuck and Company: *See*—
Colegrove, Charles E., assignor.
Selby Shoe Company, The: *See*—
Griffin, N. B., and Brechner, assignors.
Selman, George S.: *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson.
Sengbusch, Gustav J., Milwaukee, Wis. Inkstand. 2,390,667; Dec. 11.
Setterblade, Earl O., Glen Rock, N. J., assignor to Wright Aeronautical Corporation. Control system. 2,390,619; Dec. 11.
Setterlund, Sidney N., Fort McClellan, Ala., assignor to A. F. Dormeyer Mfg. Company, Chicago, Ill. Food mixer. 2,390,742; Dec. 11.
Shapiro, David L., New York, N. Y. Hydraulic driving device. 2,390,620; Dec. 11.
Shaub, Frank G.: *See*—
Ensign, E. E., and Shaub.
Shaw, Edward W., Babylon, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Aircraft structure. 2,390,668; Dec. 11.
Shaw-Walker Company, The: *See*—
Page, John H., assignor.
Shaw, Wilbur A.: *See*—
Thompson, N. C., Gunter, Shaw, and Roe.
Shell Development Company: *See*—
Wolff, Harold L., assignor.
Shellmar Products Company: *See*—
Moore, George A., assignor.
Shenk, Eugene R.: *See*—
Miller, W. A., and Shenk.
Sherman, Vernon W., Summit, N. J., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Apparatus for selective heat treatment of metal. 2,390,559; Dec. 11.
Shoemaker, Bernard H., Hammond, Ind., and E. L. D'Ouville, assignors to Standard Oil Company, Chicago, Ill. Treating olefine polymers. 2,390,621; Dec. 11.
Shoup, Stanley S., Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa. Retractable operating head for vertically actuated arbor or assembly press. 2,390,849; Dec. 11.
Simmons, Frank L., Woonsocket, R. I. Permanent magnet holding device. 2,390,743; Dec. 11.
Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Unbalance correcting amplifier system. 2,390,850; Dec. 11.
Sirp, Emil: *See*—
MacPheat, A. M., Moon, and Sirp.
Smart, James, Stockwell, London, S. W. 9, England. Device for securing stair carpet and analogous uses. 2,390,851; Dec. 11.
Smith, Lawson A., assignor to R. H. Clark, Los Angeles, Calif. Drilling and countersinking tool. 2,390,744; Dec. 11.
Smith, Nellie C., Santa Barbara, Calif. Trimming and pinking device and the like. 2,390,745; Dec. 11.
Smyth Manufacturing Company: *See*—
Schramm, Carl, assignor.
Snyder, Frederick D., Milton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,390,812; Dec. 11.
Socony-Vacuum Oil Company, Incorporated: *See*—
Dean, J. C., and Edwards, assignors.
Sonneborn, L., Sons, Inc.: *See*—
Breth, F. W., and Kinsel, assignors.
Sonnemann, William K., Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Relay. 2,390,813; Dec. 11.
Sonotone Corporation: *See*—
Koren, Heiman W., assignor.
Sperry Gyroscope Company, Inc.: *See*—
Haskins, R., Jr., Esval, and Curry, assignors.
Tawney, Gereld L., assignor.
Sperry Products, Inc.: *See*—
Drake, Harcourt C., assignor.
Haight, Norman L., assignor.
Stallmann, Frederick W., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pump. 2,390,814; Dec. 11.
Standard Oil Company: *See*—
Shoemaker, B. H., and D'Ouville, assignors.
Standard Oil Development Company: *See*—
Hemminger, Charles E., assignor.
Standard Register Company, The: *See*—
Metzner, Albert W., assignor.
Standard Telephones and Cables Limited: *See*—
Chatterjea, P. K., and Houghton, assignors.
Stanley, Sidney J., and J. E. Welch, Sr., Turtletown, Tenn. Flux retriever. 2,390,560; Dec. 11.
Stanton, George S., Kansas City, Mo. Navigational aid. 2,390,622; Dec. 11.
Staples, Julian P., Mount Lebanon, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Sealing container. 2,390,561; Dec. 11.
Stearn, William T., Cumberland, Md., assignor to Celanese Corporation of America. Cone winder guide. 2,390,669; Dec. 11.
Stearns, Charles F.: *See*—
Currie, F. L., and Stearns.
Stee, Ernest C., Bismarck, N. Dak. Electric plug. 2,390,852; Dec. 11.
Steiner, Edward C., Oklahoma City, Okla., assignor to Wright Aeronautical Corporation. True motion connecting rod. 2,390,623; Dec. 11.
Steiner, Harold K., Milwaukee, Wis., assignor to The Union Switch and Signal Company, Swissvale, Pa. Electric lock. 2,390,885; Dec. 11.
Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Cutout. 2,390,670; Dec. 11.
Stevens, Joseph R.: *See*—
Keresztesy, J. C., and Stevens.
Stewart-Warner Corporation: *See*—
Davis, Ernest W., assignor.
Stirn, Frank E., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Soluble sulphur preparations. 2,390,746; Dec. 11.
Stone, Albert L., Palos Verdes Estates, Calif. Building up tubular joint. 2,390,624; Dec. 11.
Storrs, Kindred L., Salt Lake City, Utah. Mining coal. 2,390,562; Dec. 11.
Strain, Franklin: *See*—
Muskat, I. E., and Strain.
Straussler, Nicholas, London, S. W. 1, England. Imparting buoyancy to vehicles. 2,390,747; Dec. 11.
Stuart, Wallace A., et al.: *See*—
Perry, Edward W., assignor.
Sturtevant, B. F., Company: *See*—
Hagen, Harold F., assignor.
Suits, Chauncey G., Schenectady, assignor to General Electric Company, New York, N. Y. High intensity light source. 2,390,816; Dec. 11.
Sun Oil Company: *See*—
Barton, P. D., and Dougherty, assignors.
Svenska Aktiebolaget Gasaccumulator: *See*—
Alexandersson, H. V., and Hagren, assignors.
Swanson, Frank, and E. I. Erikson, assignors to Linotype Parts Company, Weatherly, Pa. Grinding material. 2,390,967; Dec. 11.
Swanson, Nels H., Chicago, Ill. Combined coin purse and billfold. 2,390,748; Dec. 11.
Swarthout, William N., Washington, D. C. Pile cap. 2,390,625; Dec. 11.
Swazy, Earl F.: *See*—
Larsen, E. I., Heil, and Swazy.
Swift, Bert, Tulsa, Okla. Steam trap governor. 2,390,749; Dec. 11.
Sylvania Industrial Corporation: *See*—
Cornwell, Ralph T. K., assignor.
Syracuse Chilled Plow Co., Inc.: *See*—
Young, Austin E., assignor.
Szekely Company, Inc., The: *See*—
Szekely, Otto E., assignor.

**Szekely, Otto E., assignor to The Szekely Company, Inc., Philadelphia, Pa.** Aircraft supercharger drive. 2,390,626; Dec. 11.

**Tacoma Tent and Awning Company:** *See*—
Wallace, Milton S., assignor.

**Tannenbaum, Henry, New York, N. Y.** Baby carriage. 2,390,671; Dec. 11.

**Tawney, Gerald L., Hempstead, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y.** Electrical time delay line. 2,390,563; Dec. 11.

**Taylor, Harold, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited.** Preparing dichlorodiethyl ether-alkali metal polysulphide condensation products in pulverulent form. 2,390,853; Dec. 11.

**Teague, Hubert M.:** *See*—
Dunham, L. R. S., and Teague.

**Tedrow, Roy B., San Francisco, Calif.** Molding machine. 2,390,564; Dec. 11.

**Teletype Corporation:** *See*—
Potts, Louis M., assignor.
Wahlstrand, Harold A., assignor.

**Thomander, Veron S., Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa.** Identification device. 2,390,817; Dec. 11.

**Thomas, Ray G.:** *See*—
Hollatz, A. C., and Thomas.

**Thompson, Evelyn J., New York, N. Y.** Animal toilet. 2,390,854; Dec. 11.

**Thompson, Norman C., Auburn, A. Y. Gunter, Larchmont, W. A. Shaw, Forest Hills, and W. E. Roe, deceased, Kirkland, by V. B. Roe, administratrix, Clinton, assignors to American Locomotive Company, New York, N. Y.** Welding machine for fin tubes. 2,390,855; Dec. 11.

**Thompson, Walter S., Los Angeles, assignor to Radio Corporation of America.** Electronic compressor control. 2,390,856; Dec. 11.

**Thomson, Judson L., Manufacturing Company:** *See*—
Paterson, Leslie M., assignor.

**Thomson, Thomas:** *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson.

**Thornton, Harry E.:** *See*—
Amidon, M., and Thornton.

**Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio.** Fastening device. 2,390,750; Dec. 11.

**Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio.** Fastening device. 2,390,751; Dec. 11.

**Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio.** Fastening device. 2,390,752; Dec. 11.

**Tinnerman Products, Inc.:** *See*—
Tinnerman, George A., assignor.

**Topjian, Daniel, Watertown, Mass., assignor, by mesne assignments, to himself, as trustee.** Garment protector. 2,390,565; Dec. 11.

**Toussaint, Norbert F.:** *See*—
Hennion, G. F., and Toussaint.

**Traphagen, Harry R., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis.** Power lift planter. 2,390,968; Dec. 11.

**Traphagen, Harry R., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis.** Planter. 2,390,969; Dec. 11.

**Trico Products Corporation:** *See*—
Rappl, Anton, assignor.

**Trindl, John C., Chicago, Ill.** Drainer construction. 2,390,753; Dec. 11.

**Trostle, John E.:** *See*—
Rechtin, C. R., and Trostle.

**Truba, Dean O., South Gate, and E. T. Liller, Los Angeles, Calif.** Taper cutting attachment for lathes. 2,390,627; Dec. 11.

**Tucker, Frank P., Little Silver, N. J.** Partition base. 2,390,857; Dec. 11.

**Tung-Sol Lamp Works, Inc.:** *See*—
Atkins, Carl E., assignor.

**Turchan, Manuel, and C. Walker, Dearborn, Mich.** Profiling and contouring tracer mechanism, hydraulic connections and directional control. 2,390,566; Dec. 11.

**Udy, Marvin J., Niagara Falls, N. Y.** Metallurgy. 2,390,970; Dec. 11.

**Union Switch and Signal Company, The:** *See*—
Steiner, Harold K., assignor.

**United Aircraft Corporation:** *See*—
Highberg, Axel L., assignor.
King, Alexander H., assignor.

**United Autographic Register Company:** *See*—
Winter, Charles L., assignor.

**United Glass Bottle Manufacturers Limited, The:** *See*—
Dorman, Edgar P., assignor.

**United Shoe Machinery Corporation:** *See*—
Proulx, Leonard E., assignor.

**Universal Oil Products Company:** *See*—
Brown, Kenneth M., assignor.
Iverson, John O., assignor.

**University of Illinois, Board of Trustees of the:** *See* –
McCauley, W. E., and Veach, assignors.

**Valdene, Jean P., assignor of fifty per cent to D. Guest, New York, N. Y.** Apparatus for handling airplanes. 2,390,754; Dec. 11.

**Van Dyke, Edward E.:** *See*—
Del Mar, B. E., and Van Dyke.

**Vang, Alfred, Newark, N. J., assignor to Continental Can Company, Inc., New York, N. Y.** Welding method. 2,390,971; Dec. 11.

**Van Winkle, Paul, Scarsdale, assignor, by mesne assignments, to G. B. Finnegan, Jr., New York, N. Y., as trustee.** Filter. 2,390,628; Dec. 11.

**Veach, Carlos W.:** *See*—
McCauley, W. E., and Veach.

**Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich.** Timing device for power transmission systems. 2,390,755; Dec. 11.

**Vickers Incorporated:** *See*—
Vickers, Harry F., assignor.

**Voight, Henry G., Hamden, assignor to Sargent & Company, New Haven, Conn.** Front door lock. 2,390,756; Dec. 11.

**Vollrath, Joseph P., Glenside, assignor to The Brown Instrument Company, Philadelphia, Pa.** Control system. 2,390,902; Dec. 11.

**Von Glahn, William H., Loudonville, and W. L. Walsh, East Greenbush, assignors to General Aniline & Film Corporation, New York, N. Y.** Fabric and producing it. 2,390,903; Dec. 11.

**Voris, Mabel A., Seattle, Wash.** Dish washing machine. 2,390,757; Dec. 11.

**Wagner, Julius A., Cleveland Heights, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y.** Apparatus for handling strands. 2,290,904; Dec. 11.

**Wahlberg, Eric C., Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y.** Producing a simulated metallic coating. 2,390,758; Dec. 11.

**Wahlstrand, Harold A., assignor to Teletype Corporation, Chicago, Ill.** Station identifier. 2,390,672; Dec. 11.

**Walker, Clarence H., San Mateo, Calif.** Floral accessory. 2,390,858; Dec. 11.

**Walker, Curtis:** *See*—
Turchan, M., and Walker.

**Walsh, William L.:** *See*—
Von Glahn, W. H., and Walsh.

**Wallace, Milton S., assignor to Tacoma Tent and Awning Company, Tacoma, Wash.** Pack frame and bag. 2,390,673; Dec. 11.

**War, United States of America, as represented by the Secretary of:** *See*—
McNish, Alvin G., assignor.
Richter, Curt P., assignor.

**Wark, Robert:** *See*—
Barker, S. N., Selman, Bull, Marten-Gwilliam, Wark, and Thomson.

**Warner, Douglas K., Sarasota, Fla.** Compression airplane. 2,390,859; Dec. 11.

**Warren, Richard F. Jr., Stratford, Conn.** Lock nut. 2,390,759; Dec. 11.

**Watson, William U., Chicago, Ill.** Clamp support for flag staffs. 2,390,760; Dec. 11.

**Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa.** Aircraft structure. 2,390,761; Dec. 11.

**Weaver, Burr S., Scotia, and D. E. Garr, Schenectady, N. Y., assignors to General Electric Company.** Regulating system for storage batteries. 2,390,818; Dec. 11.

**Weinberg, Edwin A., assignor to The Ludlow Valve Manufacturing Co., Inc., Troy, N. Y.** Valve lock. 2,390,972; Dec. 11.

**Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del.** Preparing phenyl-pentachloroethane. 2,390,629; Dec. 11.

**Weisman, Boris, et al.:** *See*—
Bustamante, Cesar, assignor.

**Welch, Jason E., Sr.:** *See*—
Stanley, S. J., and Welch.

**Well Surveys, Incorporated:** *See*—
Fearon, Robert E., assignor.
Scherbatskoy, Serge A., assignor.

**Wells, Johnie, Jr., Lancer, Ky.** Key controlled lock. 2,390,973; Dec. 11.

**Wells, Roy E., assignor to Art Metal Construction Company, Jamestown, N. Y.** Paper filing panel. 2,390,974; Dec. 11.

**Wening, Herman E., and R. E. Moule, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich.** Oscillating joint. 2,390,905; Dec. 11.

**Werner, Jesse, Brooklyn, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y.** Method and composition for delustering artificial silk. 2,390,975; Dec. 11.

**West Virginia Pulp and Paper Company:** *See*—
Williams, Herman J., assignor.

**Westerberg, Edith A., New York, N. Y.** Article of manufacture. 2,390,906; Dec. 11.

**Western Electric Company, Incorporated:** *See*—
Amidon, M., and Thornton, assignors.
Barrans, W. T., and Martin, assignors.
Clemons, Dale R., assignor.
Drobish, A. E., and Kay, assignors.
Eppler, Walter T., assignor.
Jespersen, Helge W., assignor.
Larsen, Einer W., assignor.
MacPheat, A. M., Moon, and Sirp, assignors.
Pash, Robert, assignor.
Wagner, Julius A., assignor.

**Western Union Telegraph Company, The:** *See*—
Currie, F. L., and Stearns, assignors.

**Westinghouse Electric Corporation:** *See*—
Blackburn, Wayne E., assignor.
Burgwin, S. L., Mahoney, and Bichsel, assignors.
Christ, Joseph G., assignor.
Cole, Donald P., assignor.
Cook, Willard G., assignor.
Coyle, George E., Jr., assignor.
Derr, Willard A., assignor.
Geiselman, Ralph A., assignor.
Harder, Edwin L., assignor.
Immel, R. B., and Pierce, assignors.
Jernstedt, George W., assignor.
Kovalsky, Joseph F., assignor.
Langer, Bernard F., assignor.
Linsenmeyer, J. Z., and Poole, assignors.
Madsen, Carl J., assignor.
Mars, Nick, assignor.
McLean, John A., Jr., assignor.
Merryman, J. A., and Wharff, assignors.
Oplinger, Kirk A., assignor.
Parsons, John S., assignor.
Petzinger, Ambrose J., assignor.
Schwendner, Anthony F., assignor.
Snyder, Frederick D., assignor.
Sonnemann, William K., assignor.
Stallmann, Frederick W., assignor.
Thomander, Veron S., assignor.
Wheeler, Floyd S., assignor.

**Wharff, Edward M., Jr.:** *See*—
Merryman, J. A., and Wharff.

**Wheeler, Floyd S., Arlington, Va., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa.** Electrical circuit protective device. 2,390,819; Dec. 11.

**Wheller, Harry S., Elizabeth, N. J., assignor to L. J. Wing Mfg. Co., New York, N. Y.** Heating means. 2,390,630; Dec. 11.

**White, William E., Bethlehem, Pa., assignor to Bethlehem Steel Company.** Serving tool. 2,390,674; Dec. 11.

**Whitman, Gerald M.:** *See*—
Farlow, M. W., and Whitman.

**Wilcox, John C., Erie, Pa.** Vibration absorption driving device for machine dogs. 2,390,976; Dec. 11.

**Willcox & Gibbs Sewing Machine Company:** *See*—
Backlin, Clarence R., assignor.

**Willcox, Thomas N., Pittsfield, Mass., assignor to General Electric Company.** Making spark plug unit bushings. 2,390,821; Dec. 11.

**Willcox, Thomas N., Pittsfield, Mass., and H. H. Race, Schenectady, N. Y., assignors to General Electric Company.** Spark plug unit bushing. 2,390,820; Dec. 11.

**Williams, Herman J., Charleston, S. C., assignor to West Virginia Pulp and Paper Company, New York, N. Y.** Evening roll for flow boxes. 2,390,977; Dec. 11.

**Williams, Ira, assignor to J. M. Huber Corporation, Borger, Tex.** Purification of plant rubbers. 2,390,860; Dec. 11.

**Williams, William E., Pasadena, Calif.** Making cold shaped polymerized article. 2,390,567; Dec. 11.

**Wing, L. J., Mfg. Co.:** *See*—
Wheller, Harry S., assignor.

**Winona Tool Mfg. Company:** *See*—
Fuglie, Elmer A., assignor.

**Winter, Charles L., Chicago, Ill., assignor to United Autographic Register Company.** Stationery feeding and trimming device. 2,390,907; Dec. 11.

**Winter, Gustaf E.:** *See*—
Clem, E. W., and Winter.

**Wisconsin Alumni Research Foundation:** *See*—
Allen, T. C., and Harris, assignors.

**Witherspoon, Edith R., Englewood, N. J.** Fastening means for compacts, refills, containers, and the like. 2,390,568; Dec. 11.

**Woelfer, Frank C., Jr., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio.** Pump. 2,390,762; Dec. 11.

**Wolf, Edward, Stockton, Calif.** Utility truck. 2,390,763; Dec. 11.

**Wolff, Harold L., Los Angeles, assignor to Shell Development Company, San Francisco, Calif.** Butadiene recovery. 2,390,764; Dec. 11.

**Woodbury, Stephen E., assignor to Reid Brothers Company, Inc., Beverly, Mass.** Grinding machine. 2,390,978; Dec. 11.

**Woodworth, N. A., Company:** *See*—
Kilgore, Robert E., assignor.

**Wren, Charles, Toronto, Ontario, Canada.** Pouring spout for paper bags and the like. 2,390,822; Dec. 11.

**Wright Aeronautical Corporation:** *See*—
Hartley, Cornelius, assignor.
Setterblade, Earl O., assignor.
Steiner, Edward C., assignor.

**York, Henry H., Sydney, and W. M. Dummett, Bondi, near Sydney, New South Wales, Australia; said Dummett assignor to said York.** Refractory coating material. 2,390,765; Dec. 11.

**Young, Austin E., assignor to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y.** Slip clutch. 2,390,908; Dec. 11.

**Young, Clint, East St. Louis, Ill.** Auxiliary fuel supply for internal-combustion engines. 2,390,979; Dec. 11.

**Young, Edgar C., assignor of one-fourth to I. Hertz, one-fourth to N. Nagel, Long Beach, and one-fourth to H. A. Huebner, Los Angeles, Calif.** Welding rod holder. 2,390,631; Dec. 11.

**Young, George G.:** *See*—
Austin, K. B., and Young.

**Youngtown Steel Door Company, The:** *See*—
Ditchfield, Frank, assignor.

**Younkins, Earl L., South Nyack, N. Y.** Noncollapsible nipple. 2,390,861; Dec. 11.

**Zellhoefer, Glenn F., Normal, C. S. Marvel, Urbana, Ill., and M. J. Copley, Philadelphia, Pa., assignors, by mesne assignments to Eureka Vacuum Cleaner Company, Detroit, Mich.** Composition of matter. 2,390,766; Dec. 11.

**Zenith Radio Corporation:** *See*—
Knight, Cosler D., assignor.

**Zieblz, Herbert, assignor to Askania Regulator Company, Chicago, Ill.** Apparatus for detecting trends in observed data. 2,390,569; Dec. 11.

**Ziegelhoefer, Edward G.:** *See*—
Dohl, Robert A., and Ziegelhoefer.

**Zimdars, John B., San Francisco, Calif.** Gripping tool. 2,390,570; Dec. 11.

**Zinn, Julius A., Jr., Belmont, Mass.** Carton. 2,390,909; Dec. 11.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Device for shaker conveyers, Self-loading. J. H. Holstein. Re. 22,703; Dec. 11.

# LIST OF PLANT INVENTIONS

Rose plant. F. H. Howard. 663; Dec. 11.

# LIST OF DESIGN INVENTIONS

Bracelet. G. J. Lederer. 143,147; Dec. 11.
Brassière or similar garment. R. J. Redares. 143,165; Dec. 11.
Cabinet, Carbonator. P. H. Thompson. 143,172; Dec. 11.
Cabinet, Frozen food. W. S. Connell. 143,140; Dec. 11.
Cabinet or the like, Cooler. S. J. Lonergan. 143,148; Dec. 11.
Calculator. J. M. Hobbs. 143,146; Dec. 11.
Caliper, Micrometer. F. C. Beekley. 143,114; Dec. 11.
Case, Vanity. P. Muller-Munk. 143,157; Dec. 11.
Case, Vanity. W. D. Teague. 143,171; Dec. 11.
Clock and door chime, Combined. N. Abramson. 143,106; Dec. 11.
Compact. L. Nelson. 143,158–9; Dec. 11.
Computer. C. A. Olson. 143,160; Dec. 11.
Curling device or similar article, Hair. M. Petitta. 143,163; Dec. 11.
Desk unit, Combination. S. P. Akers. 143,109; Dec. 11.
Doll or similar article. R. C. and J. D. Russell. 143,169; Dec. 11.
Faucet, Lock lever. P. Wagner. 143,175; Dec. 11.
Fence panel, Concrete. W. Ashenfelter. 143,110–12; Dec. 11.
Gate for dispensing liquids. P. Wagner. 143,174; Dec. 11.
Handbag. F. X. Hiltenbrand. 143,145; Dec. 11.
Hold or similar article, Chalk. M. C. Bromfield. 143,126; Dec. 11.
Housing for wood planing machine. E. Yager. 143,178; Dec. 11.
Indicator or the like, Time. E. W. Adams. 143,107; Dec. 11.
Jack and bracket mounting, Combined. H. W. Rockwell. 143,168; Dec. 11.
Knife. F. K. Formiis. 143,144; Dec. 11.
Leather, Embossed. L. I. Freedman. 143,141; Dec. 11.
Pan or similar article, Sauce. A. F. Ramsthal. 143,164; Dec. 11.
Panel for ranges or the like, Heat control and indicator. C. G. Bjorncrantz. 143,118–24; Dec. 11.
Paper or the like, Writing. M. Freund and P. Neuberger. 143,142; Dec. 11.
Pen, Fountain. J. N. Whitehouse. 143,176; Dec. 11.
Pin or similar article. H. D. Cole and W. Diehl. 143,130–2; Dec. 11.
Pin or similar article. H. D. Cole. 143,133; Dec. 11.
Pin or similar article. H. D. Cole and W. Diehl. 143,134–5; Dec. 11.
Pin or similar article. H. D. Cole. 143,136; Dec. 11.
Pin or similar article. H. D. Cole and W. Diehl. 143,137; Dec. 11.
Pin or similar article. H. D. Cole and G. A. Santullo. 143,138; Dec. 11.
Pin or similar article. H. D. Cole and K. Speck. 143,139; Dec. 11.
Pin or similar article, Brooch. F. Bieberbach. 143,116–17; Dec. 11.
Pin or similar article, Jewelry. F. Morrow. 143,151–6; Dec. 11.
Plaque or similar article. B. B. Bell. 143,115; Dec. 11.
Plate for slicing machines, Gauge. A. H. Ahrndt. 143,108; Dec. 11.
Rack, Display. R. W. MacDonald. 143,149; Dec. 11.
Refrigerating unit. F. G. Peck. 143,161; Dec. 11.
Ring, Finger. C. Van B. Reilly. 143,166; Dec. 11.
Sachet or similar article. A. Yandell. 143,177; Dec. 11.
Scaling device, Fish. O. G. Rieske. 143,167; Dec. 11.
Separator supply tank, Cream. C. E. Butler. 143,128; Dec. 11.
Spoon or similar article. G. E. Sekowski. 143,170; Dec. 11.
Stand, Display. R. Brinkema. 143,125; Dec. 11.
Suitcase. R. D. Tobey. 143,173; Dec. 11.
Temple piece, Spectacle. E. and A. Barrett. 143,113; Dec. 11.
Toy figure, Climbing. L. H. Burlin. 143,127; Dec. 11.
Valve mounting and indicator, Combined hand control. H. R. Fitz Gerald and G. E. Kricker. 143,143; Dec. 11.
Vase or similar article. V. P. Petersen. 143,162; Dec. 11.
Vase, Wall. N. Mader. 143,150; Dec. 11.
Whirler, Plate. J. T. Campbell. 143,129; Dec. 11.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory, Floral. C. H. Walker. 2,390,858; Dec. 11.
Accounting machine. A. B. Colley. 2,390,870; Dec. 11.
Acoustic devices, Noise shield for. E. L. Alford and M. L. Martin. 2,390,488; Dec. 11.
Acid derivatives of lower alkyl ethers of vitamin $B_6$ and preparing the same, Dicarboxylic. J. C. Keresztesy and J. R. Stevens. 2,390,593; Dec. 11.
Acid, Manufacture of sulphamic. D. P. Hill and G. A. Peirce. 2,390,648; Dec. 11.
Acids, and the like from glyceride oils, Extraction of phosphatides, free fatty. S. E. Freeman. 2,390,528; Dec. 11.
Acids, Preparations of carboxylic. M. W. Farlow and G. M. Whitman. 2,390,576; Dec. 11.
Adhesive testing device. C. K. Chatten. 2,390,510; Dec. 11.
Adjustable nut lock. J. P. Johnson. 2,390,838; Dec. 11.
Aircraft structure. A. R. Parilla. 2,390,661; Dec. 11.
Aircraft structure. E. W. B. Shaw. 2,390,668; Dec. 11.
Aircraft structure. M. Watter. 2,390,761; Dec. 11.
Aircraft supercharger drive. O. E. Szekely. 2,390,626; Dec. 11.
Airplane. T. H. Huff. 2,390,939; Dec. 11.
Airplane, Compression. D. K. Warner. 2,390,859; Dec. 11.
Airplane door lock. S. Oxhandler. 2,390,731; Dec. 11.
Airplane structure. J. K. Northrup and V. H. Pavlecka. 2,390,730; Dec. 11.
Alkaloidal salts, Stabilized solutions of ergot. C. S. Dyas. 2,390,575; Dec. 11.
Alkylating aromatic compounds. G. F. Hennion and N. F. Toussaint. 2,390,835–6; Dec. 11.
Alkylation of aromatic hydrocarbons. S. Mann. 2,390,953; Dec. 11.
Alkyl glycosides, Production of. S. M. Cantor. 2,390,507; Dec. 11.
Alkylene cyanohydrins, Preparation of. H. S. Davis and R. C. Redmon. 2,390,519; Dec. 11.
Alkylsulphenyl dithiocarbamates. M. Hunt. 2,390,713; Dec. 11.
Alloys, Brazing. J. G. Christ. 2,390,775; Dec. 11.
Alloys, Zinc base. E. S. Bunn. 2,390,689; Dec. 11.
Amplifier circuits. H. G. Brinton. 2,390,773; Dec. 11.
Amplifier system, Unbalance correcting. K. Singer. 2,390,850; Dec. 11.
Amplifier, Torque. H. M. McCoy. 2,390,547; Dec. 11.
Amplifier, Variable selectivity. K. B. Austin and G. G. Young. 2,390,768; Dec. 11.
Ankle joint. L. G. Caron. 2,390,920; Dec. 11.
Antenna system, Directional. P. H. Kreager. 2,390,543; Dec. 11.
Antiskid device. R. C. McNeer. 2,390,956; Dec. 11.
Antispasmodic agents. A. G. Richardson. 2,390,555; Dec. 11.
Apparatus and method for applying solder. E. R. Capita. 2,390,498; Dec. 11.
Apparatus and method for charging containers with volatile mixtures. G. E. Coyle, Jr. 2,390,694; Dec. 11.
Apparatus for cutting curved surfaces. H. Q. Day. 2,390,927; Dec. 11.
Apparatus for detecting trends in observed data. H. Zieblolz. 2,390,569; Dec. 11.
Apparatus for determining pressure distribution on airfoils and the like. H. M. Heuver. 2,390,534; Dec. 11.
Apparatus for handling airplanes. J. P. Valdene. 2,390,754; Dec. 11.
Apparatus for handling strands. J. A. Wagner. 2,390,904; Dec. 11.
Apparatus for impregnating electric power cables. C. E. Bennett. 2,390,823; Dec. 11.
Apparatus for locating foreign bodies. A. A. de Lorimier. 2,390,520; Dec. 11.
Apparatus for making annual articles, Method of and. R. Pash. 2,390,614; Dec. 11.
Apparatus for making retractile cords. W. T. Barrans and V. S. Martin. 2,390,769; Dec. 11.
Apparatus for mixing and dispensing fluids of different densities. D. J. Conway. 2,390,871; Dec. 11.
Apparatus for positioning parts. E. W. Larsen. 2,390,596; Dec. 11.
Apparatus for sealing containers. G. A. Moore. 2,390,550; Dec. 11.
Apparatus for selective heating treatment of metal. V. W. Sherman. 2,390,559; Dec. 11.
Appliance, Domestic. D. K. Ferris. 2,390,577; Dec. 11.
Applicator for facial creams. J. W. Clark. 2,390,921; Dec. 11.
Article of manufacture. E. A. Westerberg. 2,390,906; Dec. 11.
Articles, Making metallic. J. A. Merryman and E. M. Wharff, Jr. 2,390,805; Dec. 11.
Attaching means for sheaves, etc. D. Firth. 2,390,875; Dec. 11.
Attachment for lathes, Taper cutting. D. O. Truba and E. T. Liller. 2,390,627; Dec. 11.
Attachment for tractors, Cultivator. A. Alderman. 2,390,767; Dec. 11.
Attenuator. H. W. Koren. 2,390,840; Dec. 11.
Automobile door window mechanism. D. L. Chandler. 2,390,690; Dec. 11.
Baby's bottle holder. G. W. Prosser. 2,390,737; Dec. 11.
Base, Partition. F. P. Tucker. 2,390,857; Dec. 11.
Battery, Primary. Le R. S. Dunham and H. M. Teague. 2,390,574; Dec. 11.
Beam, Weighing scale. W. A. Dimick. 2,390,696; Dec. 11.
Bearing: *See*—
Center bearing.
Bedboard, Folding reclining. F. R. Muenzen. 2,390,660; Dec. 11.
Belt drive reversing unit. T. E. Gohlke. 2,390,582; Dec. 11.
Blade, Wedge grip scraper. V. H. Nixon. 2,390,611; Dec. 11.
Blind, Cordless Venetian. H. J. Cohn. 2,390,626; Dec. 11.
Blood, Treatment of. N. M. Nesset. 2,390,727; Dec. 11.
Book signature feeding method. C. Schramm. 2,390,901; Dec. 11.
Box: *See*—
Lunch box.
Mail box.
Broach, Surface. J. A. Markstrum. 2,390,722; Dec. 11.
Brush. H. D. Haase. 2,390,705; Dec. 11.
Butadiene and butylene from hydrocarbon mixtures, Method of separating. C. L. Gregg. 2,390,934; Dec. 11.
Butadiene recovery. H. I. Wolff. 2,390,764; Dec. 11.
Butyrolactones and preparing them. R. C. Elderfield and E. R. Blout. 2,390,526; Dec. 11.
Cabinet: *See*—
Fire resisting cabinet.
Cable or rope capping machine. T. Lepkowski. 2,390,598; Dec. 11.
Calibrating tool. N. Mars. 2,390,802; Dec. 11.
Cap: *See*—
Pile cap.
Car: *See*—
Freight car.
Carriage, Baby. H. Tannenbaum. 2,390,671; Dec. 11.
Carton. J. A. Zinn, Jr. 2,390,909; Dec. 11.
Case: *See*—
Projector utility case.
Case for cameras. H. Fitz. 2,390,932; Dec. 11.
Center bearing. S. Bochonok. 2,390,493; Dec. 11.
Central electrode support. S. A. Scherbatskoy. 2,390,965; Dec. 11.
Centrifugal air compressor. A. L. Berger. 2,390,504; Dec. 11.
Chair. M. Greitzer. 2,390,878; Dec. 11.
Channel closing machine. L. E. Proulx. 2,390,616; Dec. 11.
Check valve. C. R. Flint. 2,390,527; Dec. 11.
Cigarette dispenser and ash tray, Combination. E. R. Loudermilk. 2,390,657; Dec. 11.
Circle cutting tool. W. F. Hubbell. 2,390,938; Dec. 11.
Circuit breaker and control therefor, Air blast. W. M. Scott, Jr. 2,390,966; Dec. 11.
Circuit breaker control system. W. A. Derr. 2,390,782; Dec. 11.
Circuit breaker operating mechanism. F. J. Pokorny. 2,390,735; Dec. 11.
Circuit-controlling apparatus. K. A. Oplinger. 2,390,809; Dec. 11.
Circuit for frequency modulation receivers, Limiter. C. E. Atkins. 2,390,502–3; Dec. 11.
Clarifying apparatus. S. W. Brigga and W. C. Bauer. 2,390,494; Dec. 11.
Closure for containers. A. Limbach. 2,390,889; Dec. 11.
Closure retainer, Bottle. W. W. Mays. 2,390,724; Dec. 11.
Clutch: *See*—
Slip clutch.
Coal, Mining. K. L. Storrs. 2,390,562; Dec. 11.
Coating material, Refractory. H. H. York and W. M. Dummett. 2,390,765; Dec. 11.
Coating, Producing a simulated metallic. E. C. Wahlberg. 2,390,758; Dec. 11.
Coating, Protective transparent. G. W. Jernstedt. 2,390,791; Dec. 11.
Communication system, Multichannel carrier. P. K. Chatterjea and L. W. Houghton. 2,390,641; Dec. 11.

Compasses, Quadrantal correctors for magnetic. A. G. McNish. 2,390,844; Dec. 11.
Composition of matter. G. F. Zellhoefer, C. S. Marvel, and M. J. Copley. 2,390,766; Dec. 11.
Composition of matter and preparation thereof. A. E. Chester and F. F. Reisinger. 2,390,511; Dec. 11.
Compositions, Coating. A. L. Kling. 2,390,887; Dec. 11.
Compressor, Lubricant. R. W. Davis. 2,390,781; Dec. 11.
Connector: *See*—
Fish line assembly connector.
Contact material, Regenerative. C. E. Hemminger. 2,390,708; Dec. 11.
Container: *See*—
Dispensing container. Sealing container.
Control apparatus. H. S. Jones. 2,390,793; Dec. 11.
Control device. W. H. Gille. 2,390,581; Dec. 11.
Control for refrigerating systems. A. C. Hollatz and R. G. Thomas. 2,390,650; Dec. 11.
Control mechanism for honing machines. H. J. Caldwell. 2,390,495; Dec. 11.
Control system. J. Z. Linsenmeyer and L. C. Poole. 2,390,799; Dec. 11.
Control system. E. O. Setterblade. 2,390,619; Dec. 11.
Control system. F. D. Snyder. 2,390,812; Dec. 11.
Control system. J. P. Vollrath. 2,390,902; Dec. 11.
Conveyer. W. T. Eppler. 2,390,785; Dec. 11.
Conveyer mechanism. W. W. Pabst. 2,390,895; Dec. 11.
Conveyer system. N. B. Griffin and C. H. Brechner. 2,390,935; Dec. 11.
Copper from copper-bearing solutions, Recovery of. C. H. Keller. 2,390,540; Dec. 11.
Correspondence portfolio. W. V. Bayley. 2,390,864; Dec. 11.
Coupler, Lubricating. L. E. Fankhouser and E. H. Glotfelty. 2,390,930; Dec. 11.
Coupling: *See*—
Pipe coupling.
Cover: *See*—
Fitting insulating cover.
Cutoff toolholder. R. E. Kilgore. 2,390,653; Dec. 11.
Cutout. A. G. Steinmayer. 2,390,670; Dec. 11.
Cylinder heads, Forging. C. A. Brauchler. 2,390,867; Dec. 11.
Decoding relay system. F. X. Rees. 2,390,666; Dec. 11.
Degasser for internal-combustion engines. M. Mallory. 2,390,603–4; Dec. 11.
Demonstration apparatus. R. J. Hearon. 2,390,706; Dec. 11.
Dental engine accessory equipment. C. J. Henschel. 2,390,710; Dec. 11.
Detector, Electrical ground. W. G. Cook. 2,390,778; Dec. 11.
Detonating explosives in deep wells or the like, System for. F. I. Alexander. 2, 390,676; Dec. 11.
Device for autonomous aerial torpedoes, Catapult. R. Alkan and A. Costa de Beauregard. 2,390,677; Dec. 11.
Device for gyroscopes, Magnetic erection. R. Haskins, Jr., O. E. Esval, and R. S. Curry, Jr. 2,390,532; Dec. 11.
Device for securing stair carpet and analogous uses. J. Smart. 2,390,851; Dec. 11.
Device for testing electrical condensers. A. E. Drobish and R. A. Kay. 2,390,784; Dec. 11.
Device for power-driven butterfly valves, Declutching. D. W. Hopkins. 2,390,882; Dec. 11.
Device for treating filamentary material. C. de Brabander. 2,390,572; Dec. 11.
Dichlorodiethyl ether-alkali metal polysulphide condensation products in pulverulent form, Preparing. H. Taylor. 2,390,853; Dec. 11.
Disconnect switch. C. Hartley. 2,390,585; Dec. 11.
Dish washing machine. M. A. Voris. 2,390,757; Dec. 11.
Dispensing container. B. W. Kleinberg. 2,390,945; Dec. 11.
Disulphanilylguanidine and preparing same. A. E. Pierce. 2,390,734; Dec. 11.
Draft mechanism for railway cars. A. Campbell. 2,390,496; Dec. 11.
Drainer construction. J. C. Trindl. 2,390,753; Dec. 11.
Drawing. K. H. Dihn and L. C. Crewe. 2,390,644; Dec. 11.
Drilling and countersinking tool. L. A. Smith. 2,390,744; Dec. 11.
Drive mechanism, Two-speed. M. P. Holmes. 2,390,589; Dec. 11.
Driving device for machine dogs, Vibration absorption. J. C. Wilcox. 2,390,976; Dec. 11.
Drying and calcining furnace. R. H. Abbott and T. A. Dickson. 2,390,675; Dec. 11.
Electric lock. H. K. Steiner. 2,390,815; Dec. 11.
Electric plug. E. C. Stee. 2,390,852; Dec. 11.
Electrical circuit protective device. F. S. Wheeler. 2,390,819; Dec. 11.
Electrical condensers, Mounting. D. R. Clemons. 2,390,776; Dec. 11.
Electrical contact. E. I. Larsen, V. E. Heil, and E. F. Swazy. 2,390,595; Dec. 11.
Electrical distribution system. J. S. Parsons. 2,390,810; Dec. 11.
Electrical measuring device. A. J. Petzinger. 2,390,811; Dec. 11.
Electrical time delay line. G. L. Tawney. 2,390,563; Dec. 11.
Electrode holder. P. M. Hall. 2,390,936; Dec. 11.
Electrolytic cells, Operating. R. J. McNitt. 2,390,548; Dec. 11.
Electrolytic method for producing oxygen. M. Janes. 2,390,591; Dec. 11.
Electromagnetic cores, Making. M. Amidon and H. E. Thornton. 2,390,863; Dec. 11.
Electron emitter, Secondary. W. R. Ferris. 2,390,701; Dec. 11.
Electronic compressor control. W. S. Thompson. 2,390,856; Dec. 11.
Electronic fence circuit control. R. F. Knelsley and F. S. Hawley. 2,390,946; Dec. 11.
Embossed display. J. H. Pollard. 2,390,663; Dec. 11.
Engine: *See*—
Internal-combustion engine. Rotary reversing engine.
Engine crank shaft to piston connecting mechanism. E. H. Schoen. 2,390,558; Dec. 11.
Engine cylinder construction. W. E. Brill. 2,390,637; Dec. 11.
Envelope hopper for mail treating machines. R. A. Dohl and E. G. Ziegelhoefer. 2,390,573; Dec. 11.
Ester-amides, Unsaturated. I. E. Muskat and F. Strain. 2,390,551; Dec. 11.
Ethers of alcohol amines. M. Katzman and A. K. Epstein. 2,390,942; Dec. 11.
Explosive bullet. R. N. Nelson. 2,390,552; Dec. 11.
Exterminator, Rodent. W. C. Bishop. 2,390,686; Dec. 11.
Eyeglasses. R. W. Carlisle. 2,390,825; Dec. 11.
Eye protector. E. B. Lewis. 2,390,599; Dec. 11.
Fabric and producing it. W. H. von Glahn and W. L. Walsh. 2,390,903; Dec. 11.
Fan. J. A. Heckman. 2,390,588; Dec. 11.
Fan, Propeller. H. F. Hagen. 2,390,879; Dec. 11.
Fan, Propeller type. J. A. McLean, Jr. 2,390,804; Dec. 11.
Fastener: *See*—
Threaded fastener.
Fastening compacts, refills, containers and the like. E. R. Witherspoon. 2,390,568; Dec. 11.
Fastening device. G. A. Tinnerman. 2,390,750–2; Dec. 11.
Feeding mechanism. N. R. Krause and S. C. Heth. 2,390,949; Dec. 11.
Feeding mechanism for threshing combines. H. S. Ausherman. 2,390,680; Dec. 11.
Ferrule for caps of containers, Nonmetallic. F. Mallgraf. 2,390,721; Dec. 11.
Filing panel, Paper. R. E. Wells. 2,390,974; Dec. 11.
Filter: *See*—
Oil filter.
Filter. E. Longden. 2,390,841; Dec. 11.
Filter. P. Van Winkle. 2,390,628; Dec. 11.
Fire escape. A. E. McDonnell. 2,390,955; Dec. 11.
Fire resisting cabinet. J. H. Page. 2,390,732; Dec. 11.
Fish line assembly connector. S. L. Hardin. 2,390,584; Dec. 11.
Fitting insulating cover. O. A. Abrams and O. Schubert. 2,390,632; Dec. 11.
Fluid conduit. V. R. Abrams. 2,390,501; Dec. 11.
Flux retriever. S. J. Stanley and J. E. Welch, Sr. 2,390,560; Dec. 11.
Follow-up mechanism. N. L. Haight. 2,390,787; Dec. 11.
Food mixer. S. N. Setterlund. 2,390,742; Dec. 11.
Freight car. F. Ditchfield. 2,390,873; Dec. 11.
Frequency modulation system. D. P. Cole. 2,390,777; Dec. 11.
Frequency multiplier. W. A. Miller and E. R. Shenk. 2,390,608; Dec. 11.
Frequency response control. C. D. Knight. 2,390,794; Dec. 11.
Front door lock. H. G. Voight. 2,390,756; Dec. 11.
γ-nitro monocarboxylic esters. H. A. Bruson. 2,390,918; Dec. 11.
Furnace: *See*—
Drying and calcining furnace.
Garment protector. D. Topjian. 2,390,565; Dec. 11.
Gas processing. R. M. Reed. 2,390,899; Dec. 11.
Gauging machine. W. W. Scott and C. L. Lewis. 2,390,741; Dec. 11.
Gearing, Overdrive. M. H. Frank. 2,390,645; Dec. 11.
Generator: *See*—
Thermoelectric generator.
Generator. H. Y. Fisher. 2,390,877; Dec. 11.
Glass articles, Cooling. W. E. Aksomitas. 2,390,910; Dec. 11.
Glassware-forming apparatus. E. Danner. 2,390,925; Dec. 11.
Glassware-forming apparatus, Hollow. E. Danner. 2,390,926; Dec. 11.
Governing apparatus. A. F. Schwendner. 2,390,740; Dec. 11.
Governor, Steam trap. B. Swift. 2,390,749; Dec. 11.
Grenade launcher. P. B. Rutherford and D. R. Luster. 2,390,738; Dec. 11.
Grinding machine. S. E. Woodbury. 2,390,978; Dec. 11.
Grinding material. F. Swanson and E. I. Erikson. 2,390,967; Dec. 11.
Grip, Ground. C. L. Ellis. 2,390,929; Dec. 11.





Gripping tool. J. B. Zimdars. 2,390,570; Dec. 11.
Guard for eyeglasses, Nose. M. D'Orsay. 2,390,523; Dec. 11.
Guide, Cone winder. W. T. Stearn. 2,390,669; Dec. 11.
Gum for paints and varnishes, Synthetic. H. L. Gerhart and L. M. Adams. 2,390,530; Dec. 11.
Gun sight mounting. D. J. Crawford. 2,390,516; Dec. 11.
Hammer, Peening. S. Kotowics. 2,390,795; Dec. 11.
Handcuff. F. G. Kelley. 2,390,885; Dec. 11.
Hand grip control switch. T. Obszarny. 2,390,846; Dec. 11.
Handguard. P. J. Diffley. 2,390,522; Dec. 11.
Hand operated tank lubricator. C. E. Fitch. 2,390,831; Dec. 11.
Hand punch press. F. Lago. 2,390,655; Dec. 11.
Handle for valves, Position-indicating. F. W. Blanchard. 2,390,866; Dec. 11.
Handle. T. Lamb. 2,390,544; Dec. 11.
Harrow. J. M. Markel. 2,390,954; Dec. 11.
Heat-resistant cast iron. D. E. Krause. 2,390,594; Dec. 11.
Heating means. H. S. Wheller. 2,390,630; Dec. 11.
High frequency attenuating device. G. E. Archenbroun. 2,390,450; Dec. 11.
High intensity light source. C. G. Suits. 2,390,816; Dec. 11.
Hobbing machine. G. L. Merrill, T. F. Carlin, and E. J. Batorski. 2,390,607; Dec. 11.
Holder: *See*—
Baby's bottle holder. Welding rod holder.
Electrode holder.
Holders for looms, Positively actuated thread. E. A. Santon. 2,390,962; Dec. 11.
Hydraulic device. M. P. Holmes. 2,390,590; Dec. 11.
Hydraulic driving device. D. L. Shapiro. 2,390,620; Dec. 11.
Hydraulic hoist. C. P. Gall and J. B. Kendall. 2,390,702; Dec. 11.
Hydraulic power unit. A. G. Mellinger. 2,390,957; Dec. 11.
Hydraulic system, Power pump operated single line. J. W. Kelly. 2,390,716; Dec. 11.
Hydrazino-1,3,5-triazine derivatives of substituted phenylarsenic compounds. E. A. H. Friedheim. 2,390,529; Dec. 11.
Hydrocarbon gases, Separation of. E. J. Houdry and R. W. Blue. 2,390,536; Dec. 11.
Hydrocarbon oil, Removing copper compounds from copper-sweetened. K. M. Brown. 2,390,668; Dec. 11.
Hydrocarbons, Bodying agent for liquid. A. Minich. 2,390,609; Dec. 11.
Hydrocarbons, Catalytic cracking of oxidized. B. F. Ruthruff. 2,390,556; Dec. 11.
Hydrocarbons, Separation of. J. W. Latchum, Jr. 2,390,720; Dec. 11.
Identification device. V. S. Thomander. 2,390,817; Dec. 11.
Identification of materials. B. W. Collins. 2,390,512; Dec. 11.
Identifier, Station. H. A. Wahlstrand. 2,390,672; Dec. 11.
Ignition system. G. H. Marmont. 2,390,842; Dec. 11.
Implement, Writing. H. C. Klaggea. 2,390,541; Dec. 11.
Indexing mechanism. H. V. Hoffman and V. R. Kaufman. 2,390,649; Dec. 11.
Indicating system. B. F. Langer. 2,390,797; Dec. 11.
Indicator device. P. S. de Beaumont. 2,390,643; Dec. 11.
Inkstand. G. J. Senghusch. 2,390,667; Dec. 11.
Insecticide and making same. T. C. Allen and H. H. Harris. 2,390,911; Dec. 11.
Insecticides. G. H. Law and J. H. Purse. 2,390,597; Dec. 11.
Insert assembling tool. E. Eckener. 2,390,524; Dec. 11.
Inserting tool for tangless inserts. E. M. Lang. 2,390,545; Dec. 11.
Internal-combustion engine. R. H. Masters. 2,390,723; Dec. 11.
Internal-combustion engine. S. C. Raybon. 2,390,960; Dec. 11.
Internal-combustion engines, Auxiliary fuel supply for. C. Young. 2,390,979; Dec. 11.
Internal-combustion engines, Inlet and exhaust connections for. C. G. Barrett. 2,390,913; Dec. 11.
Inverter, Phase. H. W. Berry. 2,390,824; Dec. 11.
Iron: *See*—
Heat-resisting cast iron.
Isobutylene, Production of. L. N. Leum and F. G. Ciapetta. 2,390,951; Dec. 11.
Isomerization of saturated hydrocarbons. J. O. Iverson. 2,390,883; Dec. 11.
Joint: *See*—
Ankle joint. Oscillating joint.
Joint for exhaust manifold systems. R. I. Markey. 2,390,801; Dec. 11.
Ketonic rosin derivatives. D. Price and E. L. May. 2,390,736; Dec. 11.
Key controlled lock. J. Wells, Jr. 2,390,973; Dec. 11.
Knife, Flexible band. P. K. Feliner. 2,390,700; Dec. 11.
Lamp. J. R. Auñero. 2,390,634; Dec. 11.
Lehr loader. W. L. McNamara and J. McFee. 2,390,725; Dec. 11.
Light: *See*—
Traffic light. Traffic signal light.
Light measuring method and system. R. L. Haynes. 2,390,833; Dec. 11.
Lighting fixture, Fluorescent. S. R. Naysmith. 2,390,807; Dec. 11.
Limb, Artificial. L. G. Caron. 2,390,919; Dec. 11.
Liquid control mechanism. F. C. Mock. 2,390,658; Dec. 11.
Lithographic plate making apparatus. J. T. Campbell. 2,390,497; Dec. 11.
Lithographic plates, Preparation of. C. F. King. 2,390,944; Dec. 11.
Lock: *See*—
Adjustable nut lock. Front door lock.
Airplane door lock. Key controlled lock.
Electric lock. Valve lock.
Looms, Shuttle check for. E. A. Santon. 2,390,963; Dec. 11.
Loop-circuit supervisory system. E. L. Harder. 2,390,788; Dec. 11.
Loud-speaker, Horn. J. Hegener. 2,390,834; Dec. 11.
Lubricator: *See*—
Hand operated tank lubricator.
Lubricant. H. T. Bennett and J. R. Marshall. 2,390,491–2; Dec. 11.
Lunch box. V. W. Busch. 2,390,638; Dec. 11.
Machine for fin tubes, Welding. N. C. Thompson, A. Y. Gunter, W. A. Shaw, and W. E. Roe. 2,390,855; Dec. 11.
Machine for making and applying spangles. C. Bustamante. 2,390,639; Dec. 11.
Machine for manufacturing dynamo armatures. L. E. Poole and E. R. Fausset. 2,390,897; Dec. 11.
Machine for sharpening cutters. G. A. De Vlieg. 2,390,521; Dec. 11.
Machine for threading and cutting tubular articles. F. W. Hill. 2,390,533; Dec. 11.
Machine for typewriter ribbons, Reinking. L. L. Ogg. 2,390,612; Dec. 11.
Machine for untwisting rope and the like. G. J. Cormier, Jr. 2,390,923; Dec. 11.
Magnesium, Manufacturing metallic. F. J. Hansgirg. 2,390,531; Dec. 11.
Magnesium retort. E. E. Ensign and F. G. Shaub. 2,390,698; Dec. 11.
Mail box. C. E. Jones. 2,390,715; Dec. 11.
Material and producing the same, Decorative. H. Hudgins. 2,390,712; Dec. 11.
Material, Roofing or surfacing. S. L. Eason. 2,390,697; Dec. 11.
Measuring device. L. D. Christie. 2,390,691; Dec. 11.
Mechanism for winches and the like, Safety lowering and control. C. C. Martin. 2,390,891; Dec. 11.
Metal bed spring. H. Gertler. 2,390,580; Dec. 11.
Metal plate dimpling machine. L. C. Huck. 2,390,537; Dec. 11.
Metallurgy. M. J. Udy. 2,390,970; Dec. 11.
Meter testing instrument support. R. R. Carlson. 2,390,640; Dec. 11.
Milk, Pasteurizing. A. C. Dahlberg and R. F. Hölland. 2,390,872; Dec. 11.
Mixer: *See*—
Food mixer.
Molding machine. R. B. Tedrow. 2,390,564; Dec. 11.
Molding process and product thereof. C. W. Egan. 2,390,525; Dec. 11.
Mounting: *See*—
Gun sight mounting.
Mounting for pulleys, etc. D. Firth. 2,390,876; Dec. 11.
Multioffice telegraph system. F. L. Currie and C. F. Stearns. 2,390,517; Dec. 11.
Multiple magneto drive. A. H. King. 2,390,886; Dec. 11.
Navigational aid. G. S. Stanton. 2,390,622; Dec. 11.
Network, Radio frequency coupling. G. W. Klingaman. 2,390,839; Dec. 11.
Nipple, Noncollapsible. E. L. Younkins. 2,390,861; Dec. 11.
Nut, Lock. R. F. Warren, Jr. 2,390,759; Dec. 11.
Nut, One-piece self-locking. W. M. Perry. 2,390,662; Dec. 11.
Oil-burner construction. G. I. Carter. 2,390,509; Dec. 11.
Oil burning system. T. Nagel. 2,390,806; Dec. 11.
Oil, Compounded hydrocarbon. F. W. Kavanagh, B. B. Farrington, and J. O. Clayton. 2,390,943; Dec. 11.
Oil filter. M. Katcher. 2,390,539; Dec. 11.
Oil pump. C. W. Ginter. 2,390,832; Dec. 11.
Oils, Refining petroleum. F. W. Breth and A. Kinsel. 2,390,917; Dec. 11.
Olefine polymers, Treating. B. H. Shoemaker and E. L. D'Ouville. 2,390,621; Dec. 11.
Ornamenting machine. C. E. Newton. 2,390,728; Dec. 11.
Oscillating joint. H. E. Wening and R. E. Moule. 2,390,905; Dec. 11.
Oscillation generator system. M. Morrison. 2,390,659; Dec. 11.
Outboard motor dolly. A. O. George. 2,390,704; Dec. 11.
Overload circuit breaker. C. W. Kuhn. 2,390,718; Dec. 11.
Oxygen tent unit. D. J. Cohn. 2,390,693; Dec. 11.
Pack frame and bag. M. S. Wallace. 2,390,673; Dec. 11.
Package and packing. C. J. Schmid. 2,390,900; Dec. 11.

Pails, Making tapered. J. A. Pittner. 2,390,553; Dec. 11.
Paper making machine press roll assembly. E. W. Clem and G. E. Winter. 2,390,692; Dec. 11.
Paper stock, Treating. J. C. Dean and R. T. Edwards. 2,390,695; Dec. 11.
Parasol. B. B. Levine. 2,390,952; Dec. 11.
Partition structure for trucks. C. H. McCurdy. 2,390,606; Dec. 11.
Penknife. E. J. Savoy. 2,390,964; Dec. 11.
Permanent magnet holding device. F. L. Simmons. 2,390,743; Dec. 11.
Petroleum, Producing. P. D. Barton and P. F. Dougherty. 2,390,770; Dec. 11.
Phase shifter. K. G. Jansky. 2,390,884; Dec. 11.
Phenyl-pentachloro-ethane, Preparing. V. Weinmayr. 2,390,629; Dec. 11.
Photographic filter and anti-halation layers. N. Heimbach. 2,390,707; Dec. 11.
Pile cap. W. N. Swarthout. 2,390,625; Dec. 11.
Pipe coupling. A. A. McCormack. 2,390,892; Dec. 11.
Piston. A. L. Bayles. 2,390,915; Dec. 11.
Piston and ring construction. C. E. Hastings. 2,390,586; Dec. 11.
Piston expander. C. Melidoni. 2,390,845; Dec. 11.
Piston rod packing assembly, Pump. A. R. Maier. 2,390,602; Dec. 11.
Planter. H. R. Traphagen. 2,390,969; Dec. 11.
Planter, Power lift. H. R. Traphagen. 2,390,968; Dec. 11.
Plastic articles, Process and apparatus for manufacturing. C. F. Marschner. 2,390,803; Dec. 11.
Plug: *See*—
  Electric plug.
Polymerized article, Making cold shaped. W. E. Williams. 2,390,567; Dec. 11.
Polymerized rubber-like product and making the same. D. Sanderson, H. E. Pfaff, and M. E. Garrison. 2,390,961; Dec. 11.
Portable drill support. J. A. Henderson. 2,390,709; Dec. 11.
Portfolio. S. Perlin. 2,390,958; Dec. 11.
Powder, Filter. T. C. Atwell. 2,390,490; Dec. 11.
Power plant, Gas turbine. H. Pfenninger. 2,390,959; Dec. 11.
Power transmission device. H. W. Jespersen. 2,390,792; Dec. 11.
Preparation of calcium pantothenate. G. H. Carlson and S. R. Safir. 2,390,499; Dec. 11.
Preparation of compounds of tungsten and similar metals from their ores and residues. G. and E. E. Boericke. 2,390,687; Dec. 11.
Press: *See*—
  Hand punch press. Veneer press.
Printing and embossing and apparatus for performing same. W. A. Roehm. 2,390,618; Dec. 11.
Printing machine. W. T. Gollwitzer. 2,390,583; Dec. 11.
Printing machine. R. L. Hatfield. 2,390,587; Dec. 11.
Producing butylene glycol by fermentation and recovering the product. R. T. K. Cornwell. 2,390,779; Dec. 11.
Profiling machine. E. P. Dorman. 2,390,828; Dec. 11.
Projector utility case. A. B. Coleman. 2,390,922; Dec. 11.
Propeller, Airplane. E. W. Perry. 2,390,733; Dec. 11.
Propellers, Making hollow. O. S. Haskell. 2,390,789; Dec. 11.
Protector: *See*—
  Eye protector. Garment protector.
Pump: *See*—
  Oil pump. Reciprocating pump.
Pump. F. W. Stallmann. 2,390,814; Dec. 11.
Pump. F. C. Woelfer, Jr. 2,390,762; Dec. 11.
Punch press mechanism. A. M. MacPheat, E. L. Moon, and E. Sirp. 2,390,600; Dec. 11.
Purification of plant rubbers. I. Williams. 2,390,860; Dec. 11.
Purse and billfold, Combined coin. N. H. Swanson. 2,390,748; Dec. 11.
Rail flow detector mechanism. H. C. Drake. 2,390,783; Dec. 11.
Raising sunken ships. C. E. Kittinger. 2,390,654; Dec. 11.
Range finder, Optical. H. E. Ives. 2,390,652; Dec. 11.
Reciprocating pump. C. C. S. Le Clair. 2,390,798; Dec. 11.
Record changer for phonographs. H. V. Alexandersson and N. U. Hagren. 2,390,862; Dec. 11.
Recording apparatus and method. A. W. Metzner. 2,390,549; Dec. 11.
Rectifier, Demountable high-vacuum hot-cathode. F. Beldi. 2,390,683; Dec. 11.
Rectifier, Selenium. W. E. Blackburn. 2,390,771; Dec. 11.
Refining dry materials, Method and apparatus for. N. H. Andrews. 2,390,678; Dec. 11.
Refrigerator. D. F. Newman. 2,390,808; Dec. 11.
Regulating apparatus. J. F. Kovalsky. 2,390,796; Dec. 11.
Regulating system. R. A. Geiselman. 2,390,786; Dec. 11.
Relay. W. K. Sonnemann. 2,390,813; Dec. 11.
Remote control for variable speed transmission. J. G. Holmstrom. 2,390,711; Dec. 11.
Resistance unit. R. B. Immel and L. Pierce. 2,390,790; Dec. 11.
Retainer for cinematograph sprockets, Film. T. J. Morgan and A. S. Dearborn. 2,390,893; Dec. 11.
Retractable operating head for vertically actuated arbor or assembly press. S. S. Shoup. 2,390,849; Dec. 11.
Rivet setting machine. L. M. Paterson. 2,390,615; Dec. 11.
Rod: *See*—
  True motion connecting rod.
Rodenticide. C. P. Richter. 2,390,848; Dec. 11.
Roll for flow boxes, Evening. H. J. Williams. 2,390,977; Dec. 11.
Rope splicing tool. E. H. Borgelt. 2,390,505; Dec. 11.
Rotary burnishing tool. J. W. Iseman. 2,390,651; Dec. 11.
Rotary reversing engine. H. H. Harrold. 2,390,880; Dec. 11.
Rotary tool booster. A. E. Johnson. 2,390,714; Dec. 11.
Rubber substitute. J. H. Elder. 2,390,829; Dec. 11.
Sandal. F. J. Benson. 2,390,685; Dec. 11.
Screw die-head. A. E. Heckman. 2,390,647; Dec. 11.
Seal for well drilling rotaries, Blow out. A. R. Maier. 2,390,601; Dec. 11.
Sealing container. J. P. Staples. 2,390,561; Dec. 11.
Sealing gland. B. E. Del Mar and E. E. Van Dyke. 2,390,928; Dec. 11.
Seat locator. H. L. Putt. 2,390,665; Dec. 11.
Separator for printing presses, Sheet. B. W. Dalton. 2,390,827; Dec. 11.
Serving tool. W. E. White. 2,390,674; Dec. 11.
Sewing machine arm. C. E. Colegrove. 2,390,571; Dec. 11.
Shingle construction, Strip. R. G. Badeau. 2,390,682; Dec. 11.
Shoe, Track. H. A. Knox. 2,390,542; Dec. 11.
Signal translating apparatus. H. F. Olson. 2,390,847; Dec. 11.
Silk, Method and composition for delustering artificial. J. Werner. 2,390,975; Dec. 11.
Sinkhead, Low volume. W. M. Charman and B. F. Anthony. 2,390,500; Dec. 11.
Slip clutch. A. E. Young. 2,390,908; Dec. 11.
Soldering. A. M. MacFarland. 2,390,890; Dec. 11.
Sole roughing tool. W. S. Anderson. 2,390,633; Dec. 11.
Soluble sulphur preparations. F. E. Stirn. 2,390,746; Dec. 11.
Solutions of metallic salts, Stabilized. S. B. Elliott. 2,390,830; Dec. 11.
Spark control. A. L. Highberg. 2,390,881; Dec. 11.
Spark plug unit bushings, Making. T. N. Willcox. 2,390,821; Dec. 11.
Spool, Film. J. F. Morse. 2,390,894; Dec. 11.
Spout for paper bags and the like, Pouring. C. Wren. 2,390,822; Dec. 11.
Spring: *See*—
  Metal bed spring.
Springs, Manufacturing volute. C. J. Holland. 2,390,937; Dec. 11.
Stationery feeding and trimming device. C. L. Winter. 2,390,907; Dec. 11.
Steady rest for lathes. W. F. Liber. 2,390,888; Dec. 11.
Stirring device. E. L. Fritzberg. 2,390,579; Dec. 11.
Stool. G. Mather. 2,390,546; Dec. 11.
Stop device, Check controlled. H. E. Marvel. 2,390,605; Dec. 11.
Strap, Cabling. S. P. Hull, J. J. Corcoran, and B. A. Lundy. 2,390,940; Dec. 11.
Structure, Power take-off. K. W. Couse. 2,390,513; Dec. 11.
Support: *See*—
  Central electrode support. Portable drill support.
  Meter testing instrument support.
Support and grinder, Crankshaft. E. A. Fuglie. 2,390,933; Dec. 11.
Support for flag staffs, Clamp. W. U. Watson. 2,390,760; Dec. 11.
Switch: *See*—
  Disconnect switch. Hand grip control switch.
System and apparatus for measuring cloud height and thickness. S. A. Scherbatskoy. 2,390,739; Dec. 11.
System for storage batteries, Regulating. B. S. Weaver and D. E. Garr. 2,390,818; Dec. 11.
Tabulation control system. L. M. Potts. 2,390,664; Dec. 11.
Tandem axle vehicle. A. L. Ayers. 2,390,912; Dec. 11.
Tap. F. A. Lanfranconi. 2,390,950; Dec. 11.
Telegraph exchange system, Satellite. K. E. Fitch, W. V. K. Large, and C. W. Lucek. 2,390,656; Dec. 11.
Telephone transmission system and apparatus therefor. C. W. Carter, Jr. 2,390,869; Dec. 11.
Textile materials and the articles produced therefrom, Making coated. R. T. K. Cornwell. 2,390,780; Dec. 11.
Textile twisting machine. G. E. Nordstrom. 2,390,729; Dec. 11.
Thermoelectric generator. H. J. Findley. 2,390,578; Dec. 11.
Thermostat, Compensating. L. J. Kocl. 2,390,947-8; Dec. 11.
Thread take-up device. C. R. Backlin. 2,390,681; Dec. 11.
Threaded fastener. R. Mitchell. 2,390,726; Dec. 11.
Thyratron inverter. H. Carleton. 2,390,508; Dec. 11.





Timing device for power transmission systems. H. F. Vickers. 2,390,755; Dec. 11.
Toilet, Animal. E. J. Thompson. 2,390,854; Dec. 11.
Tool: *See*—
  Calibrating tool. Insert assembling tool.
  Circle cutting tool. Rope splicing tool.
  Drilling and counter-sinking tool. Rotary burnishing tool.
  Gripping tool. Serving tool.
  Sole roughing tool.
Tool. H. A. Bothner. 2,390,916; Dec. 11.
Tool and dresser, Radii. S. Barrera. 2,390,914; Dec. 11.
Tool for securing inserts in tapped holes. H. W. Cram and E. Eckener. 2,390,515; Dec. 11.
Torch holding and adjusting device. R. L. Pelland, Jr. 2,390,896; Dec. 11.
Torpedo discharge means. H. Bradberry. 2,390,688; Dec. 11.
Torpedo launching mechanism. S. N. Barker, G. S. Selman, V. G. Bull, V. C. E. Marten-Gwilliam, R. Wark, and T. Thomson. 2,390,635; Dec. 11.
Tow target releasing device. Le R. Jessen. 2,390,538; Dec. 11.
Tracer mechanism, hydraulic connections and directional control, Profiling and contouring. M. Turchan and C. Walker. 2,390,566; Dec. 11.
Traffic light. A. E. H. Modern and J. E. Burke. 2,390,610; Dec. 11.
Traffic signal light. W. E. Jones. 2,390,592; Dec. 11.
Transfer mechanism. F. D. Cornell and E. Jacobsen. 2,390,924; Dec. 11.
Transformer. C. J. Madsen. 2,390,800; Dec. 11.
Tray, Soap saver. R. A. Endebrock. 2,390,874; Dec. 11.
Tricycle. F. W. Kurth. 2,390,719; Dec. 11.
Trimethylethoxysilicane and its preparation. W. H. Daudt. 2,390,518; Dec. 11.
Trimming and pinking device and the like. N. C. Smith. 2,390,745; Dec. 11.
Truck, Utility. E. Wolf. 2,390,763; Dec. 11.
True motion connecting rod. E. C. Steiner. 2,390,623; Dec. 11.
Tubular joint members, Building up. A. L. Stone. 2,390,624; Dec. 11.
Turbine, Elastic fluid. D. J. Bloomberg. 2,390,772; Dec. 11.
Turbine with overhung rotor. A. Bücchi. 2,390,506; Dec. 11.
Turbodissolver. C. R. Rechtin and J. E. Trostle. 2,390,898; Dec. 11.
Typewriting and manifolding. S. H. Plum, II. 2,390,554; Dec. 11.
Unit bushing, Spark plug. T. N. Willcox and H. H. Race. 2,390,820; Dec. 11.
Valve: *See*—
  Check valve.
Valve. P. N. Curry. 2,390,642; Dec. 11.
Valve lock. E. A. Weinberg. 2,390,972; Dec. 11.
Vaporizer. M. E. Enstathopulo. 2,390,699; Dec. 11.
Vaporizing insecticides and other liquids, Method and machine for. W. E. McCauley and C. W. Veach. 2,390,843; Dec. 11.
Vector resolving integrator. W. E. Oliphant. 2,390,613; Dec. 11.
Vehicle: *See*—
  Tandem axle vehicle.
  Waterproofed combat vehicle.
Vehicles, Imparting buoyancy to. N. Straussler. 2,390,747; Dec. 11.
Vending machine. W. W. Higham. 2,390,535; Dec. 11.
Veneer press. V. Bendix. 2,390,684; Dec. 11.
Vinegar, Manufacture of. E. J. B. Knebel. 2,390,717; Dec. 11.
Vitamin B concentrates, Treating. A. Arnold and C. B. Schreffler. 2,390,679; Dec. 11.
Waterproofed combat vehicle. A. J. Scaife. 2,390,557; Dec. 11.
Weeds, Methods and compositions for killing. F. D. Jones. 2,390,941; Dec. 11.
Welding control systems. S. L. Burgwin, J. R. Mahoney, and H. J. Bichsel. 2,390,774; Dec. 11.
Welding method. A. Vang. 2,390,971; Dec. 11.
Welding rod holder. J. H. Hill. 2,390,837; Dec. 11.
Welding rod holder. E. C. Young. 2,390,631; Dec. 11.
Well drilling apparatus. R. R. Hays. 2,390,646; Dec. 11.
Well logging method. R. E. Fearon. 2,390,931; Dec. 11.
Window operator. A. Rappl. 2,390,617; Dec. 11.
Wire coil insert. H. W. Cram. 2,390,514; Dec. 11.
Work support for use in machining operations, Adjustable. I. W. Bemis. 2,390,865; Dec. 11.
Writing instrument. L. J. Biro. 2,390,636; Dec. 11.
Yardage control mechanism. J. H. Garrott. 2,390,703; Dec. 11.

# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 11, 1945

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

2— 14: 2,390,599
53: 2,390,565
3— 2: 2,390,919
6: 2,390,920
5— 71: 2,390,660
201: 2,390,580
8—114.6: 2,390,903
10— 1: 2,390,515
2,390,524
2,390,545
86: 2,390,662
107: 2,390,649
116: 2,390,647
141: 2,390,950
12— 29: 2,390,616
142: 2,390,935
15— 104: 2,390,921
260: 2,390,753
16— 10: 2,390,851
126: 2,390,544
18— 1: 2,390,533
19: 2,390,803
47.5: 2,390,525
56: 2,390,567
59: 2,390,821
19— 66: 2,390,572
21— 58: 2,390,843
22— 147: 2,390,500
189: 2,390,765
23— 2: 2,390,899
18: 2,390,687
147: 2,390,540
166: 2,390,648
24— 19: 2,390,801
153: 2,390,751
25— 99: 2,390,564
28— 51: 2,390,799
29—23.42: 2,390,776
2,390,784
90: 2,390,651
95.1: 2,390,722
96: 2,390,653
143.2: 2,390,624
156: 2,390,614
156.4: 2,390,867
156.8: 2,390,789
173: 2,390,937
288: 2,390,596
30— 162: 2,390,964
304: 2,390,700
32— 28: 2,390,710
33— 27: 2,390,938
75: 2,390,622
174: 2,390,865
189: 2,390,520
225: 2,390,844
35— 19: 2,390,706
36— 11.5: 2,390,685
37— 143: 2,390,611
38— 6: 2,390,577
40— 20: 2,390,817
63: 2,390,974
136: 2,390,663
41— 12: 2,390,858
42— 1: 2,390,738
75: 2,390,522
43— 28: 2,390,584
45— 28: 2,390,874
47— 61: Pl. Pt. 663
49— 17.1: 2,390,925
2,390,926
89: 2,390,910
51— 34: 2,390,495
92: 2,390,978
127: 2,390,521
129: 2,390,933
165: 2,390,967
184.3: 2,390,916
55— 104: 2,390,954
57— 1: 2,390,923
23: 2,390,505
54: 2,390,729
60— 13: 2,390,913
41: 2,390,959
43: 2,390,740
52: 2,390,716
53: 2,390,755
61— 54: 2,390,625
62— 1: 2,390,694
2,390,871
4: 2,390,650
89: 2,390,898
64— 29: 2,390,908
66— 163: 2,390,904
69— 20: 2,390,633
70— 16: 2,390,885
180: 2,390,972
355: 2,390,973
72— 105: 2,390,929
73— 1: 2,390,802
147: 2,390,534
150: 2,390,510
74— 5: 2,390,532
11: 2,390,513
51: 2,390,623
189.5: 2,390,620
2,390,645
296: 2,390,582
301: 2,390,742
407: 2,390,882
473: 2,390,711
75— 67: 2,390,531
123: 2,390,594
130.5: 2,390,970
154: 2,390,775
178: 2,390,689
77— 3: 2,390,927
66: 2,390,744
78— 46: 2,390,615
90: 2,390,855
81— 151: 2,390,570
83— 11: 2,390,914
15: 2,390,627
38: 2,390,888
41: 2,390,976
85— 32: 2,390,514
2,390,752
36: 2,390,750
86— 31: 2,390,691
87— 31: 2,390,769
88— 2.7: 2,390,652
43: 2,390,825
48: 2,390,523
82: 2,390,592
89— 41: 2,390,516
90— 4: 2,390,607
11.48: 2,390,828
13.5: 2,390,566
91— 46: 2,390,823
54: 2,390,612
92— 1.6: 2,390,695
44: 2,390,977
49: 2,390,692
95— 8: 2,390,707
11: 2,390,932
76: 2,390,497
97— 47: 2,390,767
98— 40: 2,390,630
99— 212: 2,390,872
245: 2,390,717
100— 71: 2,390,849
101— 32: 2,390,618
57: 2,390,587
58: 2,390,583
149.2: 2,390,944
316: 2,390,728
102— 20: 2,390,676
56: 2,390,552
103— 38: 2,390,798
42: 2,390,762
178: 2,390,832
105— 376: 2,390,873
106— 15: 2,390,887
165: 2,390,512
287: 2,390,975
106— 310: 2,390,830
108— 7: 2,390,682
2,390,697
109— 84: 2,390,732
111— 51: 2,390,969
56: 2,390,968
95: 2,390,686
112— 99: 2,390,639
124: 2,390,745
248: 2,390,681
258: 2,390,571
113— 112: 2,390,890
120: 2,390,553
114— 51: 2,390,654
65: 2,390,747
238: 2,390,635
2,390,688
116— 125: 2,390,866
135: 2,390,569
117— 63: 2,390,758
65: 2,390,805
73: 2,390,780
97: 2,390,498
100: 2,390,853
119— 15: 2,390,854
21: 2,390,924
120— 43: 2,390,636
52: 2,390,541
59: 2,390,667
121— 46: 2,390,702
62: 2,390,590
71: 2,390,880
92: 2,390,957
122— 374: 2,390,493
123— 51: 2,390,950
65: 2,390,627
76: 2,390,723
103: 2,390,603
2,390,604
117: 2,390,619
119: 2,390,626
122: 2,390,979
148: 2,390,842
149: 2,390,881
2,390,886
176: 2,390,915
197: 2,390,559
191: 2,390,693
252: 2,390,861
128— 13: 2,390,949
132— 83: 2,390,568
134— 58: 2,390,757
136— 4: 2,390,578
102: 2,390,574
137— 153: 2,390,642
139— 185: 2,390,963
247: 2,390,962
140— 123: 2,390,674
144— 281: 2,390,684
150— 35: 2,390,748
151— 7: 2,390,726
2,390,759
54: 2,390,538
153— 1: 2,390,598
10: 2,390,660
21: 2,390,537
32: 2,390,795
154— 26: 2,390,712
28: 2,390,632
42: 2,390,550
155— 54: 2,390,878
149: 2,390,546
158— 28: 2,390,509
45.5: 2,390,906
160— 170: 2,390,826
164— 61: 2,390,907
96: 2,390,655
166— 21: 2,390,770
167— 24: 2,390,911
30: 2,390,597
45: 2,390,941
46: 2,390,848
67: 2,390,575
167— 78: 2,390,727
81: 2,390,679
170— 159: 2,390,804
2,390,879
162: 2,390,733
171— 34: 2,390,811
97: 2,390,946
119: 2,390,786
209: 2,390,877
172— 239: 2,390,547
2,390,787
2,390,793
173— 324: 2,390,905
361: 2,390,852
174— 167: 2,390,820
175— 21: 2,390,863
183: 2,390,783
294: 2,390,778
2,390,782
2,390,810
320: 2,390,656
356: 2,390,800
366: 2,390,771
367: 2,390,743
177— 311: 2,390,665
2,390,788
2,390,813
2,390,922
327: 2,390,610
351: 2,390,797
178— 2: 2,390,517
2,390,656
17: 2,390,672
27: 2,390,664
44: 2,390,502
2,390,503
2,390,563
2,390,824
2,390,839
2,390,856
2,390,869
179— 1: 2,390,794
171: 2,390,768
2,390,773
2,390,850
171.5: 2,390,777
188: 2,390,488
180— 1: 2,390,557
54: 2,390,763
181— 0.5: 2,390,547
27: 2,390,834
183—114.2: 2,390,536
188— 3: 2,390,956
189— 34: 2,390,857
192— 67: 2,390,792
144: 2,390,589
193— 35: 2,390,785
194— 10: 2,390,535
66: 2,390,605
196— 30: 2,390,868
49: 2,390,556
147: 2,390,917
197— 126: 2,390,554
198— 9: 2,390,690
14: Re. 22,703
27: 2,390,895
31: 2,390,725
200— 81.8: 2,390,643
88: 2,390,819
89: 2,390,735
98: 2,390,796
104: 2,390,809
114: 2,390,670
124: 2,390,718
148: 2,390,966
157: 2,390,846
162: 2,390,585
166: 2,390,595
201— 48: 2,390,581
55: 2,390,840
63: 2,390,790
202— 42: 2,390,934
204— 37: 2,390,791
68: 2,390,548
129: 2,390,591
205— 21: 2,390,644
206— 4: 2,390,638
41.2: 2,390,945
63.2: 2,390,900
209— 90: 2,390,741
210— 154: 2,390,841
184: 2,390,494
185: 2,390,539
188: 2,390,628
211— 85: 2,390,640
213— 45: 2,390,496
215— 43: 2,390,561
2,390,721
98: 2,390,724
219— 4: 2,390,774
2,390,761
2,390,936
2,390,560
2,390,837
10: 2,390,971
13: 2,390,559
220— 41: 2,390,889
222— 262: 2,390,831
318: 2,390,781
420: 2,390,699
224— 5.1: 2,390,952
8: 2,390,673
227— 42: 2,390,955
229— 37: 2,390,909
66: 2,390,822
72: 2,390,864
230— 101: 2,390,814
117: 2,390,588
127: 2,390,504
235— 2: 2,390,870
61: 2,390,613
236— 15: 2,390,902
240— 7.7: 2,390,634
11.2: 2,390,816
78: 2,390,807
241— 5: 2,390,678
242— 39: 2,390,703
74: 2,390,894
75: 2,390,812
157: 2,390,669
244— 13: 2,390,939
15: 2,390,859
63: 2,390,677
102: 2,390,661
2,390,668
110: 2,390,754
124: 2,390,730
2,390,761
246— 413: 2,390,515
248— 43: 2,390,760
61: 2,390,940
103: 2,390,737
296: 2,390,896
312: 2,390,715
250— 1: 2,390,739
9: 2,390,641
11: 2,390,543
27.5: 2,390,683
36: 2,390,489
2,390,608
2,390,659
83.6: 2,390,934
2,390,965
174: 2,390,701
251— 119: 2,390,527
121: 2,390,749
252— 1: 2,390,511
42.7: 2,390,943
48.6: 2,390,491
2,390,492
242: 2,390,768
299: 2,390,490
316: 2,390,609
368: 2,390,906
253— 39: 2,390,506
70: 2,390,772
254— 186: 2,390,891
255— 1.6: 2,390,646
23: 2,390,601
27: 2,390,714
51: 2,390,709
259— 95: 2,390,579
96: 2,390,898
107: 2,390,675
260— 4: 2,390,961
23: 2,390,530
94: 2,390,621
97: 2,390,736
125: 2,390,746
210: 2,390,507
239.5: 2,390,526
242: 2,390,529
247: 2,390,555
295.5: 2,390,593
397.7: 2,390,734
403: 2,390,528
404: 2,390,942
462: 2,390,518
463: 2,390,551
464: 2,390,519
478: 2,390,918
534: 2,390,499
537: 2,390,576
567: 2,390,713
583: 2,390,766
637: 2,390,779
651: 2,390,629
671: 2,390,835
2,390,836
2,390,953
676: 2,390,720
681.5: 2,390,764
683: 2,390,951
683.5: 2,390,883
754: 2,390,829
818: 2,390,840
261— 60: 2,390,658
262— 1: 2,390,562
265— 53: 2,390,696
266— 19: 2,390,698
268— 19: 2,390,690
125: 2,390,617
270— 54: 2,390,901
94: 2,390,897
271— 2.3: 2,390,893
26: 2,390,827
61: 2,390,573
273—105.3: 2,390,538
274— 1: 2,390,862
280— 43: 2,390,671
61: 2,390,704
81: 2,390,912
234: 2,390,719
281— 31: 2,390,958
282— 1: 2,390,549
285— 2: 2,390,501
97.6: 2,390,892
169: 2,390,930
286— 16: 2,390,926
19: 2,390,602
287— 52: 2,390,875
52.07: 2,390,876
292— 37: 2,390,731
169: 2,390,756
296— 33: 2,390,606
297— 15: 2,390,947
2,390,948
305— 10: 2,390,542
306— 27: 2,390,705
309— 12: 2,390,845
14: 2,390,586
312— 78: 2,390,631
97.1: 2,390,657
315— 14: 2,390,884
129: 2,390,833
237: 2,390,508
320— 5: 2,390,818

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2,390,492: | 252—48.6 | 2,390,568: | 132— 83 | 2,390,626: | 123—119 | 2,390,775: | 75—154 | 2,390,860: | 260—818 |
| 2,390,529: | 260—242 | 2,390,576: | 260—537 | 2,390,640: | 211— 85 | 2,390,808: | 62— 89 | 2,390,878: | 155— 54 |
| 2,390,549: | 282— 1 | 2,390,577: | 38— 6 | 2,390,645: | 74—189.5 | 2,390,822: | 229— 66 | 2,390,892: | 285—97.6 |
| 2,390,553: | 113—120 | 2,390,587: | 101— 57 | 2,390,758: | 117— 63 | 2,390,828: | 90—11.48 | 2,390,915: | 123—176 |
| 2,390,555: | 260—247 | 2,390,593: | 260—295.5 | 2,390,765: | 22—189 | 2,390,829: | 260—751 | 2,390,919: | 3— 2 |

| | |
|---|---|
| 2,390,945: | 206—41.2 |
| 2,390,946: | 171— 97 |
| 2,390,961: | 260— 4 |

## CLASSIFICATION OF DESIGNS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D 2— 3: | Des. 143,172 | D34—15: | Des. 143,127 | D45—19: | Des. 143,134 | D52— 1: | Des. 143,146 | D80— 9: | Des. 143,125 |
| D11— 1: | Des. 143,167 | D41— 1: | Des. 143,168 | | Des. 143,135 | | Des. 143,160 | | Des. 143,149 |
| D14— 6: | Des. 143,143 | D42— 7: | Des. 143,106 | | Des. 143,136 | D54—12: | Des. 143,170 | D81—25: | Des. 143,118 |
| D20— 4: | Des. 143,165 | | Des. 143,107 | | Des. 143,137 | D55— 1: | Des. 143,108 | | Des. 143,119 |
| D22— 3: | Des. 143,144 | D44— 1: | Des. 143,164 | | Des. 143,138 | D57— 1: | Des. 143,113 | | Des. 143,120 |
| D23— 1: | Des. 143,128 | D45— 4: | Des. 143,147 | | Des. 143,139 | D59—14: | Des. 143,142 | | Des. 143,121 |
| D28— 1: | Des. 143,110 | 10: | Des. 143,166 | | Des. 143,151 | D61— 1: | Des. 143,129 | | Des. 143,122 |
| | Des. 143,111 | 19: | Des. 143,116 | | Des. 143,152 | D62— 4: | Des. 143,161 | | Des. 143,123 |
| | Dec. 143,112 | | Des. 143,117 | | Des. 143,153 | D67— 3: | Des. 143,140 | | Des. 143,124 |
| D29—23: | Des. 143,115 | | Des. 143,130 | | Des. 143,154 | | 4: Des. 143,148 | D86—10: | Des. 143,157 |
| | 28: Des. 143,150 | | Des. 143,131 | | Des. 143,155 | D74— 1: | Des. 143,109 | | Des. 143,158 |
| | Des. 143,162 | | Des. 143,132 | | Des. 143,156 | | 17: Des. 143,176 | | Des. 143,159 |
| D34— 4: | Des. 143,169 | | Des. 143,133 | D52— 1: | Des. 143,114 | | 24: Des. 143,126 | | Des. 143,163 |

| | |
|---|---|
| D86—10: | Des. 143,171 |
| | Des. 143,177 |
| D87— 3: | Des. 143,141 |
| | Des. 143,145 |
| | 5: Des. 143,173 |
| D91— 3: | Des. 143,174 |
| | Des. 143,175 |
| D93— 2: | Des. 143,178 |

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

REVERE PAINT COMPANY

*v.*

20TH CENTURY CHEMICAL COMPANY

*No. 4,976. Decided May 25, 1945*

[150 F.(2d) 135; 66 USPQ 65]

1. TRADE-MARKS—OPPOSITION—OWNERSHIP.

Where appellant opposed the application by appellee for registration of the notation "20th Century" displayed on a black background as a trade-mark for goods including ready-mixed paints; and in its notice of opposition appellant alleged that it was the owner of the trade-mark "20th Century" for use on goods also including ready-mixed paints; but its testimony showed that paints sold under that trade-mark were manufactured and dealt in exclusively by and for the benefit of the "Wetherill corporation," though that corporation provided labels on which appellant's name, and not its own, appeared; and nothing tended to establish that the "Wetherill corporation" was appellant's agent, or that appellant had any right, title, or interest in the trade-mark "20th Century," or that appellant would probably be damaged by the registration of the mark to appellee, *Held* that the opposition was properly dismissed.

2. SAME—SAME.

The decision in *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, 28 C. C. P. A. (Patents) 1298, 121 F.(2d) 508, 50 USPQ 76, 533 O. G. 753, constructed, and *Held* inapplicable in the case at bar, since appellant was not the owner of a registration for the trade-mark "20th Century."

3. APPEAL—TRADE-MARK OPPOSITION—RIGHT OF APPLICANT TO REGISTRATION—EX PARTE CONSIDERATION.

"In an ex parte consideration of the right of an applicant to register its mark, the Commissioner of Patents, not the opposer, represents the public * * * and his decision is final so far as the opposer is concerned. We hold, therefore, that appellant is not entitled to challenge here the action of the Commissioner of Patents refusing to consider the evidence relative to the activities of the Wetherill corporation 'for possible grounds for ex parte refusal of registration.' Accordingly, the Commissioner's decision in that respect is not before us for consideration."

4. SAME—SAME—SAME—SAME—JURISDICTION.

"It has been suggested that it is the duty of this court, in order to safe guard the public interest, to decide on its own motion that appellee has no right to the registration which it seeks. That the court has no such authority is so obvious as to require no discussion."

5. TRADE-MARKS—REGISTRATION—REMEDY BY CANCELLATION.

"Furthermore, the refusal of this court to extend its jurisdiction to matters not conferred upon it by the Congress and which are not inherent in the exercise of its judicial authority cannot with reason be construed as sanctioning the registration of a trade-mark which the statute (section 5 of the Trade-Mark Act of February 20, 1905) prohibits. If the Commissioner erred in granting appellee's application for registration of the trade-mark '20th Century,' and if the Wetherill corporation is the owner of that mark or deems itself injured by the registration thereof, that company has a remedy, it may, under section 13 of the Trade-Mark Act of February 20, 1905, petition the Commissioner of Patents to cancel appellee's registration."

APPEAL from the Patent Office. Affirmed.

O'CONNELL, *J.*, dissenting.

*Messrs. Ruess & Geier* (*Mr. William T. Geier* and *Mr. J. Hanson Boyden* of counsel) for Revere Paint Company.

*Mr. Leonard L. Kalish* (*Mr. Arthur N. Klein* of counsel) for 20th Century Chemical Company.

HATFIELD, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents (58 USPQ 495) reversing the decision of the Examiner of Interferences sustaining appellant's notice of opposition to the registration of appellee's trade-mark and holding that appellee was not entitled to register the mark under section 5 of the Trade-Mark Act of February 20, 1905.

Appellee's mark comprises the notation "20th Century" displayed on a black background.

It is alleged in appellee's application for registration that it has used its mark on its goods, including "ready-mixed paints," since February 1, 1937.

In its notice of opposition appellant alleged that it was the owner of the trade-mark "20th Century" for use on a variety of articles, including "ready-mixed paints"; that it had used its mark on its goods since long prior to February 1, 1937; and that it would be damaged by the registration of the mark to appellee.

Evidence was introduced by each of the parties.

In his decision the Examiner of Interferences stated that the marks of the parties were substantially identical; that some of the goods (ready-mixed paints) on which the respective marks were used were identical; that it appeared from the testimony introduced by appellant that ready-mixed paints were manufactured and sold by George D. Wetherill & Company, Inc. (hereinafter referred to as the Wetherill corporation) pursuant to an agreement entered into between that corporation and the appellant company at the time the appellant company was organized in 1911; and that it was the contention of counsel for appellant that, although "the entire business in the manufacture and sale of this brand of merchandise and the maintenance of records relating thereto has been carried out by the George D. Wetherill & Co. Inc., * * * such company has done so only in the capacity of an agent of the opposer, in accordance with the terms of the aforesaid agreement." The Examiner further stated that counsel for appellee contended that the appellant company was a "mere 'dummy' corporation"; that the manufacture of "ready-mixed paints" and their sale under the trade-mark "20th Century" had been conducted by the Wetherill corporation on its own behalf; and that the Wetherill corporation "rather than the opposer [appellant] is therefore the owner of the mark."

After stating the position of counsel for the parties, the Examiner held that the question of title, as between appellant and the Wetherill corporation, was not of material consequence; that, regardless of the ownership of the mark, appellee was not the first user of the mark; and that it was not necessary to consider the question of title. In support of his position, the Examiner cited the cases of *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, 28 C. C. P. A. (Patents) 1298, 121 F.(2d) 508, 50 USPQ 76, 533 O. G. 753, and *Oxo, Limited*, v. *Griffith Laboratories, Inc.*, 53 USPQ 264, 538 O. G. 750.

The Examiner sustained the notice of opposition and held that appellee was not entitled to the registration of its trade-mark.

On appeal, the Commissioner of Patents stated in his decision that it appeared from the record that the Wetherill corporation applied the mark "20th Century" to "its own goods in its own business and on its own behalf and not on behalf of opposer [appellant]," and that the question to be determined was whether "the mere appearance of the name 'Revere Paint Company' in association with the notation '20th Century' on the labels and color cards of George D. Wetherill & Company gives opposer such an interest in the mark '20th Century' as qualifies it to oppose registration of that mark by applicant [appellee]." The Commissioner was of opinion that it did not. He further stated that "It was George D. Wetherill & Company and not opposer that associated the name 'Revere Paint Company' with the mark '20th Century,' and it does not appear that George D. Wetherill & Company did so for any benefit to opposer or even at opposer's request. Even opposer's consent to the display is only inferentially indicated in the record and not shown positively."

The Commissioner concluded from the evidence of record that appellant (opposer) had not established either ownership or the right to use the trade-mark "20th Century"; that it had not established any likelihood that it would be damaged by the registration of the mark to appellee; and that, therefore, it had not established its right to oppose the granting of registration to appellee.

The Commissioner refused to give consideration to the evidence relating to the activities of the Wetherill corporation "for possible grounds for ex parte refusal of registration," and, in this connection, stated that neither ownership nor use of the mark in question was pleaded by the Wetherill corporation, and that as the notice of opposition and the evidence on behalf of appellant were each directed solely to the use and ownership of the mark by appellant, appellee "was not called upon to meet the issue of whether George D. Wetherill & Company had any rights in the mark or to direct its cross-examination of opposer's witness accordingly or to take proofs with regard thereto, and obviously * * * did not do so. * * * Accordingly the proofs will not be considered for a possible ground for ex parte refusal of the registration for which applicant has applied." The Commissioner concluded his decision with the following statement.

In view of the above the decision of the Examiner of Trade-Mark Interferences is reversed and the notice of opposition is dismissed.

Thereafter, opposer (appellant) filed a request for reconsideration of the Commissioner's decision, claiming that the Commissioner erred in dismissing appellant's notice of opposition and in holding, ex parte, that appellee was entitled to register its mark.

The Commissioner denied appellant's petition for reconsideration and, in so doing, stated that the points raised therein had been fully considered in his decision.

Appellant's witness Samuel R. Matlack, testified that he was president of both the appellant company and the Wetherill corporation; that at the time of the organization of the appellant company (March 13, 1911) the directors of that company adopted a resolution which, he stated, authorized the president of the company "'to enter into such arrangements with the George D. Wetherill & Company, Incorporated, as to the manufacture of paints and the sale of same as in his judgment he deems best'"; and that "arrangements were entered into" with the Wetherill corporation which were still in effect at the time of the taking of his testimony. What those arrangements were the witness did not state, nor does it appear from any other evidence of record what they were.

All of the other of appellant's witnesses, with the exception of George Frederick Kurtz, were employed by the Wetherill corporation.

The witness Kurtz testified, among other things, that he was engaged in the hardware business under the name of Kurtz & Company in Philadelphia, Pennsylvania; that he purchased paints under the trade-mark "20th Century" from the Wetherill corporation; that he sold "Wetherill's '20th Century' paint"; that he never had any business transactions with the appellant company; and that he never met anybody who represented the appellant company.

[1] It appears from the testimony introduced by appellant that the appellant company does not manufacture or sell paints or any other articles; that it does not keep any books or accounts relative to the sale of any articles; that it transacts no business in the ordinary sense in which bookkeeping records might be required; that the paints referred to in the notice of opposition are manufactured and sold exclusively by the Wetherill corporation; that the Wetherill corporation receives payment for all such paints; that bills are rendered by that corporation to its customers; and that the customers look to the Wetherill corporation for credits or redress on all paint sold by it under the trade-mark "20th Century." In short, there is nothing of record tending to establish that appellant (Revere Paint Company) has any interest whatsoever in the trade-mark "20th Century," or in any goods sold by the Wetherill corporation under that trade-mark.

It is true that the Wetherill corporation provides labels for which it pays and on which appears the name of the appellant company, and that the name of the Wetherill corporation does not appear thereon. The evidence does not establish why the Wetherill corporation places appellant's name on those labels, and we do not care to speculate as to why it is done.

There is nothing of record tending to establish that the appellant company ever received any money or anything else of value from the Wetherill corporation for the paints manufactured and sold by it. We are of opinion, therefore, that the Commissioner was clearly justified in holding as he did that there is nothing of record tending to establish that the Wetherill corporation was the agent of the appellant company, or that the appellant company had any right, title, or interest in the trade-mark "20th Century," or that it would probably be damaged by the registration of the mark to appellee.

[2] With regard to the case of *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, supra, relied upon by the Examiner of Interferences in support of his holding that the question of title was not material to the issues in the instant case, we think it is sufficient to say that the decision in the Dubonnet case does not support the Examiner's views. In that case, the Dubonnet Wine Corporation (opposer) was the owner of two registrations under the Trade-Mark Act of February 20, 1905, of the trade-mark "Dubonnet" for use on wine, and, although it appeared that it was not engaged in any commercial business in connection with the manufacture or sale of wines and its mark was used by another, we, nevertheless, held that as it was the owner of the registrations referred to it was entitled to oppose the registration of the trade-mark "Dubonnet" to the applicant.

Prior to our decision in that case, we had repeatedly held that the validity of a registered trade-mark could not properly be challenged in an opposition proceeding; that evidence relating to the validity of an opposer's registration was wholly irrelevant to the issues in such a proceeding; and that if a party deemed himself injured by a trade-mark registration, he should proceed in accordance with the provisions of section 13 of the Trade-Mark Act of February 20, 1905, which authorize him to file a petition for the cancellation of such trade-mark registration. See *Englander, Etc.*, v. *Continental Distilling Co.*, 25 C. C. P. A. (Patents) 1022, 95 F.(2d) 320, 37 USPQ 264, 496 O. G. 274, and cases cited therein.

Appellant is not the owner of a registration for the trade-mark "20th Century." Accordingly, the decision in the Dubonnet case, supra, has no application to the issues in the case at bar.

It is so well settled as to require no citation of authorities that as appellant failed to establish that it would probably be damaged by the registration of the trade-mark "20th Century" to appellee, its notice of opposition should have been, as it was, dismissed by the Commissioner of Patents.

In appellant's reasons of appeal in this court it is stated that "The Commissioner erred in refusing to consider the proofs submitted by opposer as 'possible ground for ex parte refusal of the registration for which applicant has applied.'"

We have repeatedly held that in opposition proceedings the tribunals of the Patent Office have the authority to determine ex parte whether or not the mark of an applicant is entitled to registration, regardless of the issues raised by the notice of opposition. Indeed, it is their duty to do so. See *Englander, Etc.*, v. *Continental Distilling Co.*, supra, and *Dubonnet Wine Corporation* v. *Ben-Burk, Inc.*, supra.

[3] In an ex parte consideration of the right of an applicant to register its mark, the Commissioner of Patents, not the opposer, represents the public—*Frankfort Distilleries, Inc.*, v. *Dextora Company*, 26 C. C. P. A. (Patents) 1244, 1249, 103 F.(2d) 924, 41 USPQ 664, 508 O. G. 6—and his decision is final so far as the opposer is concerned. We hold, therefore, that appellant is not entitled to challenge here the action of the Commissioner of Patents refusing to consider the evidence relative to the activities of the Wetherill corporation "for possible grounds for ex parte refusal of registration." Accordingly, the Commissioner's decision in that respect is not before us for consideration. See *Island Road Bottling Co.* v. *Drink-Mor Beverage Co.*, 30 C. C. P. A. (Patents) 708, 132 F.(2d) 129, 56 USPQ 65, 548 O. G. 3. See also *Island Road Bottling Co.* v. *Drink-Mor Beverage Co.*, 31 C. C. P. A. (Patents 816, 140 F.(2d) 331, 60 USPQ 369, 372, 562 O. G. 3.

Had the Commissioner rejected appellee's application for registration and had appellee appealed to this court, the ex parte issue of the right of appellee to register the mark would have been properly before us.

[4][5] It has been suggested that it is the duty of this court, in order to safe guard the public interest, to decide on its own motion that appellee has no right to the registration which it seeks. That the court has no such authority is so obvious as to require no discussion. Furthermore, the refusal of this court to extend its jurisdiction to matters not conferred upon it by the Congress and which are not inherent in the exercise of its judicial authority cannot with reason be construed as sanctioning the registration of a trade-mark which the statute (section 5 of the Trade-Mark Act of February 20, 1905) prohibits. If the Commissioner erred in granting appellee's application for registration of the trade-mark "20th Century," and if the Wetherill corporation is the owner of that mark or deems itself injured by the registration thereof, that company has a remedy, it may, under section 13 of the Trade-Mark Act of February 20, 1905, petition the Commissioner of Patents to cancel appellee's registration.

For the reasons stated, the decision of the Commissioner of Patents, dismissing appellant's notice of opposition, is affirmed.

Affirmed.

O'CONNELL, *J.*, (dissenting):

Upon the testimony presented, the Examiner of Trade-Mark Interferences sustained the opposition and refused registration of appellee's mark. The Commissioner of Patents, however, not only overruled the action of the Examiner, but also decided that the mark was owned by another party not involved in the proceedings and for that reason appellant would not be damaged by appellee's registration of the mark. The Commissioner dismissed the opposition, and therefore, in affirming his action, the majority decision of this court confers upon appellee, a newcomer, the right to register a trade-mark which, according to the record, is identical with a known trade-mark owned and in use by another for at least twenty years and appropriated to merchandise of the same descriptive properties.

It is true, as appellant contends, that whether the "20th Century" mark was owned by appellant, Revere Paint Company, or whether it was owned by George D. Wetherill & Company, which was not a party to the proceeding, the registration of the mark by appellee, the newcomer, is explicitly prohibited by section 5 of the Trade-Mark Act of 1905, as amended, which, so far as pertinent, provides:

> *That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties*, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers *shall not be registered.* [Italics mine.]

Section 1 of the Trade-Mark Act, supra, provides that the owner of a trade-mark may obtain its registration by filing an application and complying with certain requirements therein specified. Section 2 of the act provides:

> That the application prescribed in the foregoing section, in order to create any right whatever in favor of the party filing it, must be accompanied by a written declaration verified by the applicant, or by a member of the firm or an officer of the corporation or association applying, to the effect that the applicant believes himself or the firm, corporation, or association in whose behalf he makes the application to be the owner of the trade-mark sought to be registered, and that no other person, firm, corporation, or association, to the best of the applicant's knowledge and belief, has the right to use such trade-mark in the United States, either in the identical form or in such near resemblance thereto as might be calculated to deceive; • • • The verification required by this section may be made before any person within the United States authorized by law to administer oaths. • • •

The verification required by the statute and filed by appellee, 20th Century Chemical Company, for the registration of its mark, reads as follows:

> State of New Jersey,
> County of Camden, ss:
>
> Robert M. Bagley, being duly sworn, deposes and says that he is the vice-president of the corporation, the applicant named in the foregoing statement; that he believes the foregoing statement is true; that he believes said corporation is the owner of the trade-mark sought to be registered; that no other person, firm, corporation, or association, to the best of his knowledge and belief, has the right to use said trade-mark in the United States, either in the identical form or in any such near resemblance thereto as might be calculated to deceive; that said trade-mark is used by said corporation in commerce among the several states of the United States; that the description and drawing presented truly represent the trade-mark sought to be registered; and that the specimens show the trade-mark as actually used upon the goods.
>
> ROBERT M. BAGLEY.
>
> Subscribed and sworn to before me, a Notary Public, this 1st day of May, 1940.
>
> VINCENT P. BRESON,
> *Notary Public.*
>
> [SEAL]
> Notary Public of New Jersey,
> My commission expires Sept. 23, 1940.

In answer to the opposition filed by appellant, Revere Paint Company, against the registration of appellee's mark, 20th Century Chemical Company alleged:

> 5. That applicant has been the owner of, and has continuously used, the trade-mark covered by its application Serial No. 432,802 since prior to any valid trade-mark use by opposer or its predecessors of its alleged trade-mark, • • •

It will be noted from the foregoing provisions of law that the written declaration submitted by an applicant for the registration of a trade-mark must be verified under oath. Therefore, under well established principles of law, false statements as to material matters contained in the required declaration, or affidavit, are to be dealt with not only under the laws relative to perjury, but also under the laws relative to fraud and misrepresentation. In other words, an application for the registration of a trade-mark is affected with public interest and in order to create any right whatever in the party filing it, he must comply with the requirements of conscience and good faith and come before the tribunals of the Patent Office with clean hands. See, *Precision Instrument Manufacturing Company et al.* v. *Automotive Maintenance Machinery Company*, — U. S. —, 65 USPQ 133, 576 O. G. 369.

Despite its averments under oath and its positive allegations of ownership of the involved mark, in the proceeding in the Patent Office, we find appellee contending as follows, according to the statement in the decision of the Examiner:

> Applicant [appellee] vigorously insists, however, that the opposer is a mere "dummy" corporation; that the business relating to these "20th Century" products has been conducted by George D. Wetherill & Co. Inc. entirely in its own behalf; and that the latter company rather than the opposer [appellant] is therefore the owner of the mark.

The import of appellee's argument, orally and in its brief submitted in this appeal, is practically to the same effect, and therefore, under its own vigorous contentions both before the tribunals of the Patent Office and in this proceeding, appellee, 20th Century Chemical Company, is not the owner of the involved mark. It is my opinion that appellee has come into court with unclean hands and therefore has no right whatever to the registration of the mark for which it applies.

If the Commissioner of Patents could not sustain appellant's notice of opposition on the record in this case for the reason that such action would establish a dangerous precedent by the official sanction of a questionable business practice on the part of appellant, nevertheless the law provides for the correction of such matters in a plurality of remedies. None of these remedies, however, provides for the award of the right to register an involved trade-mark to a party who does not own the mark.



Although appellant, Revere Paint Company, kept no records of its own and had no bank account, nevertheless the evidence shows that the merchandise was sold in definite volume under the mark "20th Century." That dealers retailing the product found satisfaction in handling the goods over a period of years, is disclosed by the following undisputed testimony of the disinterested witness, Kurtz:

> Q. 53. It is the lowest grade of paint that you handle?
> A. Yes, it is the lowest grade as far as selling price but very good as to quality.
> Q. 6. What brands of paint do you sell?
> A. We sell Wetherill's "20th Century" and sell some du Pont's.
> Q. 7. Approximately how long have you been handling the "20th Century" line?
> A. Since 1932; about April 1932.
> Q. 8. And have you been handling it continuously since that time?
> A. I have, yes.
> Q. 9. Every year?
> A. Every year, yes, sir; every month I have a bill of "20th Century" paint.
> Q. 10. Do you carry it in stock?
> A. I carry it in stock all the time.
> Q. 11. And you replenish your stock by replacing orders from time to time?
> A. We replenish it.
> Q. 12. You never had any difficulty in buying the paint, did you, in any way?
> A. I always got it very promptly from the company.
> Q. 13. You carry it, display it, on your shelves, do you?
> A. Yes.

Assuming that appellant would not be damaged by appellee's registration of the "20th Century" mark, nevertheless the evidence discloses that the public has been purchasing and using the product with satisfaction over a period of years; and that it is likely to continue to do so, is obvious because of its low selling price, prompt service, and very good quality.

The primary purpose of the statutory prohibition provided for in section 5 of the Trade-Mark Act is to safeguard the consumer by preventing the goods of one dealer from being palmed off on him by another dealer under an identical or similar mark. Accordingly, the Commissioner of Patents in refusing to register a prohibited mark acts as the guardian of the public interest, and not merely as an arbiter between two parties. For this reason it is the duty of the Commissioner of Patents in an opposition proceeding to determine of his own motion and irrespective of the contentions of the parties, whether or not an applicant's mark is entitled to registration. See, *Shering & Glatz, Inc.*, v. *Sharp & Dohme, Inc.*, 32 C. C. P. A. (Patents) —, 146 F.(2d) 1019, 64 USPQ 394, 572 O. G. 542. It is my opinion that in rendering such a decision, it makes no difference whether the action of the Commissioner of Patents taken of his own motion is technically described as an ex parte or an inter partes decision. The decision is made in the proceeding in which the issue is presented, and the prohibition of the statute is mandatory.

In the instant case, the majority decision holds "that appellant is not entitled to challenge here the action of the Commissioner of Patents in refusing to consider the evidence relative to the activities of the Wetherill Corporation 'for possible grounds for ex parte refusal of registration'." Neither party to this proceeding raised that point in any reason of appeal nor was it mentioned by either in oral argument or in the briefs submitted. The majority of the court raised the point and decided it of its own motion.

As it is the duty of the Commissioner of Patents in safeguarding the public interest to decide of his own montion in an opposition proceeding that a prohibited mark shall not be registered, it follows as a matter of law that in the instant case, this court, having before it the depositions of the witnesses, the involved marks, the material exhibits, as well as the decisions of the tribunals of the Patent Office, likewise has the duty to decide of its own motion, regardless of the assigned reasons of appeal or the contentions of the parties, and in safeguarding the public interest, that the prohibited mark shall not be registered.

As the case now stands, the decision of the majority, in my opinion, sanctions the identical abuse that the mandate of the statute is designed to prevent.

For the reasons stated, the decision of the Commissioner of Patents, in so far as it fails to deny registration of appellee's mark, should be reversed.

---

## U. S. Court of Customs and Patent Appeals

SNAP-ON TOOLS CORPORATION
*v.*
THE BLACK & DECKER MANUFACTURING CO.

*No. 5,034. Decided June 25, 1945*

[150 F.(2d) 432; 66 USPQ 237]

1. TRADE-MARKS—DESCRIPTIVENESS.
   *Held* that the prefix "Speed!" in appellant's mark "Speedi-Centric," as a mere misspelling of the common dictionary term "speedy," is merely descriptive of one of the claimed features of appellant's portable valve grinding tool.
2. SAME—SAME—DOMINANT PORTION.
   *Held* that, being descriptive, "Speedi" would not to any degree indicate to the purchasing public the origin of appellant's goods, and could not be considered the dominant feature of appellant's mark "Speedi-Centric."
3. SAME—SAME.
   The suffix "Centric" in the marks "Speedi-Centric" and "Vibro-Centric" *Held* suggestive, but not descriptive, of the concentric type of valve grinding tools to which the marks are applied.
4. SAME—DOMINANT PORTION.
   The suffix "Centric" *Held* to be an important, if not the dominant, feature of appellee's registered mark "Vibro-Centric."
5. SAME—CONFUSING SIMILARITY.
   "We are of opinion that one familiar with appellee's portable valve grinding tool and its trade-mark 'Vibro-Centric,' seeing the trade-mark 'Speedi-Centric' on appellant's tool, would be likely to believe that appellant's tool was the product of appellee; that the marks of the parties are confusingly similar; and that appellant is not entitled to have its mark registered."

APPEAL from the Patent Office. Affirmed.

BLAND, *J.*, concurring in the conclusion.

*Mr. Harry C. Alberts* for Snap-On Tools Corporation.

*Mr. Thomas W. Y. Clark* (*Mr. Edwin F. Samuels* of counsel) for The Black & Decker Manufacturing Co.

HATFIELD, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents (60 USPQ 380) affirming the decision of the Examiner of Interferences sustaining appellee's notice of opposition and holding that appellant was not entitled to register the mark "Speedi-Centric" for use on "valve reseating apparatus, portable valve grinding machines, grinding wheel dressing machines, valve grinding stone sleeves, valve grinding stone holders, valve grinding sleeves, and valve grinding pilots" under the Trade-Mark Act of February 20, 1905.

It appears from the record that appellant has used its mark on its goods since about May 1940.

In its notice of opposition appellee alleged that it was the owner of the trade-mark "Vibro-Centric" for use on portable electric valve seat grinding machines, and parts thereof, and valve seat grinding stone sleeves; that it has used its mark on its goods since May 1933; that it is the owner of trade-mark registration No. 306,961, issued October 10, 1933, for the trade-mark "Vibro-Centric" for use on electric portable valve seat grinders and parts thereof; that the marks of the parties are confusingly similar; and that it would be damaged by the registration of the mark "Speedi-Centric" to the applicant (appellant).

Evidence was introduced by each of the parties.

It is conceded by counsel for appellant that the goods of the parties possess the same descriptive properties, and that appellee was the first to use its mark on its goods. Accordingly, the sole issue to be determined is whether appellant's mark "Speedi-Centric" and appellee's mark "Vibro-Centric" are confusingly similar.

It appears from the record that the portable tools of the parties are used for precisely the same purpose, that is, the grinding of valve seats in automobile and other engines to restore the surfaces of such valve seats to their original condition; that the tools of the parties operate in substantially the same manner, the only material difference being that appellee's tool is so designed and arranged that during the grinding operation it is automatically lifted from the valve seat in order that abraded material may be removed therefrom, whereas appellant's tool must be manually lifted to remove the abraded material; and that there are two types of valve grinding tools, the concentric type, like those here involved, in which "the grinding wheel," as stated by appellant's witness W. Walter Daniel, assistant secretary of the appellant company, "is mounted in a concentric manner and grinds the full perifery [periphery] of the valve seat," and the eccentric type in which the "grinding wheel * * * is mounted eccentrically and results in only a portion of the grinding wheel coming in contact with the seat at one time."

It further appears from the record that appellee advertises its portable grinding tool under its trade-mark in automotive trade papers and other publications; that it has expended approximately $60,000 in such advertising; that its product is sold throughout the United States and in foreign countries; that it is sold to automotive and other jobbers, who in turn sell to garage owners and mechanics; that it employs so-called "field salesmen," who contact garage owners and mechanics and who are accompanied by so-called "jobber salesmen" who make the actual sales; that appellant also advertises its product in automotive trade papers; and that its product, as stated by appellant's witness Daniel, is sold to garage owners and mechanics "exclusively through our own branch warehouses and the salesmen that are employed by the branches."

It is evident from what has been said that the ultimate purchasers of the tools of each of the parties are garage owners and mechanics, although it appears from the record that appellee's product is also sold to some extent to manufacturers of automobile and other engines.

Appellant introduced evidence for the purpose of establishing that the term "Centric" was understood in the trade as meaning concentric, and that it described a tool of the concentric type, that is, one which is mounted in a concentric manner and which grinds the full periphery of the valve seat, as distinguished from the eccentric type of grinding tool hereinbefore described. However, appellee's witnesses who testified on that subject stated that the suffix "Centric," in appellee's mark, did not mean that appellee's tool was of the concentric type, but rather that it originated with appellee.

It was apparently contended by counsel for appellant before the tribunals of the Patent Office, as it is contended here, that the suffix "Centric" in each of the involved marks is merely descriptive of the type of portable tool on which the marks are used; that, therefore, the suffix "Centric" is publici juris and cannot be considered as the dominant feature of either of the marks; and that considering the difference in the prefix "Vibro" in appellee's mark and the prefix "Speedi" in appellant's mark, together with the other related facts of record, the concurrent use of the marks of the parties on their goods would not be likely to cause confusion in the mind of the public or deceive purchasers.

With reference to the descriptiveness of the suffix "Centric" appearing in each of the involved marks, the Examiner of Interferences stated in his decision that he was of opinion that the term "Centric" was merely suggestive, but that if it should be held to be descriptive, the prefix "Speedi" in appellant's mark was also descriptive and, therefore, as appellant's mark would be merely descriptive of the goods on which it was used it would not be registrable. The Examiner held that the marks of the parties were confusingly similar and, accordingly, sustained appellee's notice of opposition.

On appeal, the Commissioner of Patents stated that if the suffix "Centric" in each of the involved marks was descriptive, the prefix "Speedi" in appellant's mark was also descriptive, and that if the views of counsel for appellant were to be adopted it would be necessary to hold that appellant's mark was merely descriptive of the goods on which it was used and, therefore, was not registrable. The Commissioner stated, however, that he was of opinion that the suffix "Centric" was highly suggestive, but was not descriptive, of the goods on which the marks were used; that the goods of the parties were substantially identical; that the marks were confusingly similar, and, accordingly, affirmed the decision of the Examiner of Interferences.



It is contended here by counsel for appellant that the goods of the parties are functionally different; that the respective trade-marks suggest those differences; that, in the operation of appellee's tool, there is audible vibration "each time" the tool automatically "lifts and again contacts its seat"; that appellant's tool, which is manually lifted from time to time to clear the abraded material from the valve seat, is lacking in such vibration; that the suffix "Centric" in each of the involved marks is an ordinary English word and means that the grinder wheels of the tools of the parties rotate about a fixed axis; that such meaning is so understood by mechanics; that the term is merely descriptive of the type of tool here involved; and that, therefore, the suffix "Centric" cannot be considered as the dominant feature of the marks in question. It is further contended that the dominant features of the marks of the parties are the prefixes, "Speedi" in appellant's mark and "Vibro" in appellee's mark, and that those terms are so dissimilar that when the marks are considered in their entireties they are not confusingly similar.

It appears from the testimony of appellant's witness William F. Holz, employed by appellant as sales promotion manager, that it was he who suggested the trade-mark "Speedi-Centric" for appellant's device; that he suggested the prefix "Speedi," as he stated, "to describe the fact that it [appellant's valve grinding tool] was fast"; and that the suffix "Centric" was adopted as a part of the mark "to show that" appellant's tool "ground the valve seats concentrically, or through the true center of the valve stem."

Appellant's witness George M. Walraven, employed by the appellant company as chief engineer, stated, with reference to the meaning of the prefix "Speedi" in appellant's mark, that "we are not trying to describe that the motor itself is fast. We are trying to describe the fact that the tool will do a speedy job."

The witness W. Walter Daniel, testifying for appellant with regard to the meaning of the prefix "Speedi" in appellant's mark, stated that "it refers to the speed in which a valve seat can be ground, primarily. It does not necessarily indicate that the motor itself operates at high speed, but rather that the valve seat can be ground in a very speedy manner."

In its advertisements for its "Speedi-Centric" valve grinding tool, appellant states that it operates at high speed and that it is "the fastest and most accurate set you can buy . . . at any price." (Appellant's Exhibit No. 4.)

[1][2] It would seem to be obvious from the record that the prefix "Speedi" in appellant's mark, which is merely a misspelling of the common dictionary term "speedy," was intended to be, and is, merely descriptive of one of the claimed features of appellant's portable valve grinding tool. Accordingly, it would not to any degree indicate to the purchasing public the origin of appellant's goods and, therefore, cannot be considered the dominant feature of appellant's mark.

Should it be assumed for the purpose of this decision that the suffix "Centric" is descriptive of the tools of the parties, it is obvious that appellant's trade-mark "Speedi-Centric" is merely descriptive of appellant's tool and, therefore, is not registrable under the Trade-Mark Act of February 20, 1905.

[3] We have given the question of the descriptiveness of the suffix "Centric" in each of the involved marks careful consideration, and are of opinion that while it may be suggestive, it is not descriptive, of the concentric type of tools to which the marks are applied.

The term "centric" is defined by the lexicographers as follows:

*adj.* 1. Placed in or at the center or middle; central. 2. Of, pertaining to, or characterized by, a center; having its parts grouped round or directed to a center * * *. Webster's New International Dictionary.

*a.* 1. Central; centrally situated; belonging to or described around a center. Funk & Wagnalls New Standard Dictionary.

The term "concentric" is defined as follows:

*adj.* 1. Having a common center, as circles or spheres, one within another;—opp. to *eccentric*. *n.* That which has a common center with something else. Webster's New International Dictionary.

*a.* 1. Having a common center, as spheres or circles: said loosely of any curves that are parallel or nearly so. Funk & Wagnalls New Standard Dictionary.

It is apparent from the quoted definitions that the terms "centric" and "concentric" do not have precisely the same meaning, and that the term "Centric" is not descriptive of the so-called "concentric" type of valve grinding tool. We are of opinion that the most that can be said is that the term "centric," as used in appellee's trade-mark, is suggestive of the fact that appellee's valve grinding tool is designed to grind valve seats concentrically.

[4] It seems strange indeed that if, as stated by appellant's witness Holz, appellant desired to adopt a trade-mark that would describe its tool as being of the concentric type and of high speed it did not adopt the mark "Speedi-Concentric," rather than to appropriate the term "Centric," an important, if not the dominant, feature of appellee's registered mark.

[5] We are of opinion that one familiar with appellee's portable valve grinding tool and its trade-mark "Vibro-Centric," seeing the trade-mark "Speedi-Centric" on appellant's tool, would be likely to believe that appellant's tool was the product of appellee; that the marks of the parties are con-

fusingly similar; and that appellant is not entitled to have its mark registered.

For the reasons stated, the decision of the Commissioner of Patents is affirmed.

Affirmed.

BLAND, *J.*, concurs in the conclusion.

## U. S. Court of Customs and Patent Appeals

### IN RE STARR

*No. 5,036. Decided June 25, 1945*

[150 F.(2d) 425; 66 USPQ 243]

1. PATENTABILITY—AGGREGATION.
Claims to a remote controlled mobile submersible mechanical unit *Held* properly rejected as being aggregational.

2. SAME—SAME.
"It is clear that all of the elements set out in the claims are old, and that each performs a well-known individual function. They are all entirely independent one of another, and each operates exactly as it would if none of the others were in existence. They cannot properly be held to cooperate in the production of a unitary result. * * * The total result is merely the sum of those produced by the separate parts. It has been well-settled that such arrangement is a mere aggregation and therefore devoid of patentability."

APPEAL from the Patent Office. Affirmed.

*Mr. Arlon V. Cushman, Mr. C. H. Porter,* and *Messrs. Roberts, Cushman & Grover* (*Mr. Charles S. Grover* and *Mr. Robert Cushman* of counsel) for Starr.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.:*

Appellant has appealed from a decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting all of the claims, 21, 22 and 23, of an application for a patent for a Remote Controlled Mobile Submersible Mechanical Unit.

The Examiner rejected the claims as lacking invention over the prior art, as follows: Hively, 1,202,519, October 24, 1916; Clayton, 1,375,278, April 19, 1921; Setlow, 1,450,232, April 3, 1923; Roux, 1,585,210, May 18, 1926; D'Albay, 1,879,735, September 27, 1932; Lake, 1,997,149, April 9, 1935; Sherman, 2,019,059, October 29, 1935; Heath, 2,057,146, October 13, 1936; Hartman, 2,060,670, November 10, 1936. The claims were further rejected as being aggregational.

The Board affirmed the decision of the Examiner, stating that the main ground for rejection was that of aggregation.

Claim 21 is illustrative of the subject matter of the alleged invention and reads as follows:

21. A mobile, crewless, submersible salvaging unit of the kind described, having a liquid-tight hull, a plurality of electrical motors within said hull, each of said motors being independently operated and controlled from a remote surface power and control station thru electrical conducting wires, a propelling shaft extending from certain of said motors to propellers outside said hull, operating means extending from certain motors to tractor-propelling means fitted outside said hull, a salvaging device operable outside said hull and operatively connected with certain of said motors inside said hull, means within the hull for indicating the directional and level positions of the same, and means to reproduce said indications at said surface station, means to illuminate the operations of the outside salvaging device, a window in the hull adjacent said illuminating means, in combination with television apparatus on the inside of said hull adjacent said window positioned to receive light stimuli from the field of said operations, and means to reproduce said stimuli as visual images at said surface station by means of the television apparatus.

The application relates to a submersible unit as defined in the claims adapted to be lowered to great submarine depths and remotely controlled. It comprises a pressure-resistant hull with propellers for moving the craft while suspended in water, a flexible caterpillar track on the bottom of the hull so that the unit may move while on the bottom of the ocean, a drill to operate on the ship or other object to be investigated, suction and scoop dredges, flood lights, television apparatus, trim indicator, and a relay box. All of the elements are operated by independent motors controlled from a switchboard located either ashore or on a surface vessel. It is not claimed that any of the means are not conventional.

[1] Since we are of opinion that the claims were properly rejected as being aggregational, it is not necessary to discuss the prior art.

[2] It is clear that all of the elements set out in the claims are old, and that each performs a well-known individual function. They are all entirely independent one of another, and each operates exactly as it would if none of the others were in existence. They cannot properly be held to cooperate in the production of a unitary result. There is surely no coaction, for example, between the propellers and the tractor means, and the means for indicating the position of the device have no effect upon the operating means, nor have those means any effect upon the means for indication. The total result is merely the sum of those produced by the separate parts. It has been well-settled that such arrangement is a mere aggregation and therefore devoid of patentability. *In re Gladeck*, 29 C. C. P. A. (Patents) 840, 124 F.(2d) 1021, 52 USPQ 332, 537 O. G. 718; *In re Allatt*, 28 C. C. P. A. (Patents) 1367, 121 F.(2d) 545, 50 USPQ 214, 532 O. G. 767; *In re Goggins*, 24 C. C. P. A. (Patents) 764, 86 F.(2d) 419, 32 USPQ 20, 478 O. G. 713; *In re Hodler*, 22 C. C. P. A. (Patents) 705, 73 F.(2d) 507, 23 USPQ 317, 450 O. G. 937.

The decision of the Board of Appeals is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

MCKESSON & ROBBINS, INC.

*v.*

AMERICAN FOUNDATION FOR DENTAL SCIENCE

*No. 5,044. Decided June 25, 1945*

[150 F.(2d) 420; 66 USPQ 252]

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.
*Held* that "concentrated medicinal materials for use as food supplements in supplying deficiencies of vitamins and minerals," to which appellee applies the mark "Dent-A-Min," and "medicinal preparations for internal use, said preparations consisting of a metabolic stimulant and cell-activating agent particularly useful in the treatment of diseases due to deficiency in diet," upon which appellant uses the registered mark "Cytamin," are medicinal preparations; that they "are both adapted for internal use in the treatment of dietary deficiencies"; and that they "clearly possess the same descriptive properties contemplated by the Trade-Mark Act."

2. SAME—CONFUSING SIMILARITY.
*Held* that the marks "Dent-A-Min" and "Cytamin" differ only in the first syllable; that both "are coined expressions"; and that "their concurrent use on the goods of the parties would be likely to cause confusion in the mind of the purchasing public both as to origin and as to the goods themselves."

3. SAME—PRECEDENTS.
Precedents are of but minor value in trade-mark litigation because each case must rest upon its own facts.

APPEAL from the Patent Office. Reversed.

*Mr. Samuel Herrick* for McKesson & Robbins, Inc.

No appearance for American Foundation For Dental Science.

JACKSON, *J.:*

This is an appeal in a trade-mark opposition proceeding from a decision of the Commissioner of Patents, 61 USPQ 34, reversing that of the Examiner of Interferences, who sustained the notice of opposition filed by appellant.

Appellee filed an application to register its mark "DENT-A-MIN" applied to "Concentrated medicinal materials for use as food supplements in supplying deficiencies of vitamins and minerals * * *." The mark was duly published in the OFFICIAL GAZETTE, and within due time appellant filed its notice of opposition, based upon its registered mark "CYTAMIN," which registration was for use of the mark on "medicinal preparations for internal use, said preparations consisting of a metabolic stimulant and cell-activating agent particularly useful in the treatment of diseases due to deficiency in diet, * * *." Accompanying the notice of opposition, in accordance with Trade-Mark Rule 56, appellant filed labels used by it on which appears the statement that the "CYTAMIN" contains vitamins A, $B_1$, C, D and G. Appellant alleged that the involved marks were so similar as to be likely to cause confusion in the mind of the public and deceive purchasers in that the goods of the parties possess the same descriptive properties. By answer, appellee traversed the allegations of the notice of opposition.

Neither of the parties took testimony nor was represented at the hearing before the Examiner, but both filed briefs.

The Examiner was of opinion that the goods of the parties, since they comprised "medicinal preparations for internal use in the treatment of dietary deficiencies" possessed the same descriptive properties. He also held that both marks were coined terms and to the ordinary purchasers would have no meaning other than as brand names of the goods. He then stated that in his opinion there was such similarity between the trade-marks that their use on the respective goods would be reasonably likely to cause confusion in trade.



The Commissioner in his decision stated that he would be inclined to agree with the Examiner that the trade-marks of the parties bear sufficient resemblances to be reasonably likely to cause confusion if the goods upon which they were used were substantially identical or closely related merchandise. In his view, however, there were probable differences between the goods, although he stated that in a broad sense they were clearly of the same descriptive properties in that both are medicinal preparations.

Because, however, no testimony was taken, the Commissioner held that the degree in which the goods of the parties may differ in their specific characteristics is left to conjecture, and that upon the record presented they did not approach identity, for the reason that "* * * the registration was issued in 1917, 'before the existence and need of vitamins or vitamins and dietary minerals were known.'"

No brief or argument was presented here on behalf of appellee.

It is true, if the statement of the Commissioner that vitamins were not known at the date of the issue of appellant's registration be accepted, that there is no proof in the record showing when appellant first placed on its labels the statement that its product contained vitamins. However, we do not consider the time when such change was made to be material to a decision here.

[1] Unquestionably the products of both parties are medicinal preparations. They are both adapted for internal use in the treatment of dietary deficiencies, and as such, in our opinion, clearly possess the same descriptive properties contemplated by the Trade-Mark Act.

[2] As to the marks, they differ only in the first syllable. Both are coined expressions and in our opinion their concurrent use on the goods of the parties would be likely to cause confusion in the mind of the purchasing public both as to origin and as to the goods themselves.

[3] There are many cases in which trade-marks possessing greater dissimilarities than those here involved were held to be confusingly similar as applied to goods of the same descriptive properties. There is no necessity for citing trade-mark cases, however, for the reason that it has so often been held that precedents are of but minor value in litigation of this character because each case must rest upon its own facts. *In re Dutch Maid Ice Cream Company*, 25 C. C. P. A. (Patents) 1009, 95 F.(2d) 262, 37 USPQ 202, 495 O. G. 221.

In our opinion the resemblance between the marks is much greater than the difference therein, and when used as they are here used on goods of the same descriptive properties the marks would be likely to cause confusion in the mind of the purchasing public.

The decision of the Commissioner of Patents is reversed.

Reversed.

## Trade-Mark Registrations Canceled

143,264. Bread. Specialty Baking Co., Inc., New York, N. Y. Registered May 24, 1921. Canceled Oct. 25, 1945.

296,322. Certain named non-alcoholic beverages. Sunspray Beverages, Inc., Brooklyn, N. Y. Registered Aug. 2, 1932. Canceled Nov. 8, 1945.

314,249. Women's dresses. Blum's, Inc., Baltimore, Md. Registered June 26, 1934. Canceled Nov. 8, 1945.

372,302. Certain named construction material. Mastic Asphalt Corporation, South Bend, Ind. Registered Oct. 31, 1939. Canceled Oct. 8, 1945.

390,625. Corn planters. Sears, Roebuck and Co., Chicago, Ill. Registered Sept. 30, 1941. Canceled Nov. 8, 1945.

391,205. Certain named medicinal preparations. The Liebenthal Brothers Company, Cleveland, Ohio. Registered Oct. 28, 1941. Canceled Oct. 8, 1945.

391,652. Certain named non-alcoholic beverages. F. A. Fetsch, Los Angeles, Calif. Registered Nov. 18, 1941. Canceled Oct. 25, 1945.

395,639. Coated fabrics. Textileather Corporation, Toledo, Ohio. Registered June 2, 1942. Canceled Oct. 8, 1945.

400,491. Hydraulic brake boosters. Vickers Manufacturing Corporation, Buffalo, N. Y. Registered Mar. 9, 1943. Canceled Oct. 26, 1945.

400,492. Hydraulic brake boosters. Vickers manufacturing Corporation, Buffalo, N. Y. Registered Mar. 9, 1943. Canceled Oct. 26, 1945.

404,262. Certain named metals and metal castings and forgings. Rene Wassermann, New York, N. Y. Registered Nov. 16, 1943. Canceled Oct. 8, 1945.

405,966. Certain named foods. Maria Castino, West New York, N. J. Registered Feb. 29, 1944. Canceled Oct. 25, 1945.

407,144. Certain named clothing. Macrae Sportswear, New York, N. Y. Registered May 16, 1944. Canceled Oct. 8, 1945.

410,065. Hosiery. The Adler Co., Cincinnati, Ohio. Registered Nov. 7, 1944. Canceled Oct. 25, 1945.

410,944. Seed corn. Sears, Roebuck and Co., Chicago, Ill. Registered Dec. 26, 1944. Canceled Nov. 8, 1945.

413,883. Certain named X-ray apparatus. Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Registered May 15, 1945. Canceled Oct. 25, 1945.

414,046. Certain named toy furniture. Renwal Mfg. Co. Inc., New York, N. Y. Registered May 22, 1945. Canceled Oct. 8, 1945.

## Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., Nov. 16, 1945.*

*Blue-Belle Dress Co., its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Blue Bell, Inc., Jefferson Bldg., Elm and Market Sts., Greensboro, N. C., for registration of a trade-mark and trade-mark registered January 8, 1929, No. 251,493, to Blue-Belle Dress Co., 248 West 35th St., New York, N. Y., and the notice of such proceeding sent by registered mail to said Blue-Belle Dress Co., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Blue-Belle Dress Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

## Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Nov. 19, 1945.*

*Kalpul, Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Jane Wharton Mitten, 626 Broadway, Cincinnati, Ohio, to effect the cancellation of trade-mark registration of Kalpul, Inc., 1216 N. E. 2nd Ave., Miami, Fla., No. 339,096, dated September 22, 1936, and the notice of such proceeding sent by registered mail to the said Kalpul, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kalpul, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Richmond, Va., Nov. 20, 1945.*

*Maison Andre, Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Maurice Handman, 100 Varick Street, New York, N. Y., to effect the cancellation of trade-mark registration of Maison Andre, Inc., 117 North Howard Street, Baltimore, Maryland, No. 323,017, dated March 26, 1935, and the notice of such proceeding sent by registered mail to the said Maison Andre, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Maison Andre, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

## Adjudicated Patents

(C. C. A. Calif.) Ernst patent, No. 2,067,265, for a hydraulic double-acting metal-drawing press, claims 7, 9 to 11, 14, and 15 *Held* valid and infringed. *Ralph N. Brodie Co.* v. *Hydraulic Press Mfg. Co.*, 151 F.(2d) 91; 66 USPQ 396.

(C. C. A. Calif.) Ernst patent, No. 2,136,240, for a triple-action drawing press, claims 7 to 10 *Held* valid and infringed. *Id.*

## Notice

U. S. PATENT OFFICE, *Washington 25, D. C., Oct. 29, 1945.*

Effective October 18, the Office fees for correction and preparation of drawings shall be as follows.

For new drawings and corrections:

| | |
|---|---|
| Minimum charges for correction | $1.00 |
| For corrections on time basis, per hour | 3.00 |
| Minimum charge per sheet for new patent and design drawings | 15.00 |
| Minimum charge for new trade-mark drawings | 5.00 |

CASPER W. OOMS,
*Commissioner.*

## Register of Patents Available for Licensing or Sale

*(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)*

Pat. 2,111,795. INDICATING DEVICE. Patented Mar. 22, 1938. An endless belt of wooden strips having recesses for holding removable cards is encased within a sheet metal rectangular frame, with indexing means along the top. Belt is movable from left to right. Cards remain in view for a period up to ninety days. Color codes may be used for different data. (Owner) Bocji Corporation, 2212 Oliver Bldg., Pittsburgh 22, Pa. Groups 25—99; 33—73; 39—81. Reg. No. 663.

Pat. 2,246,649. CAP AND JAR WRENCH. Patented June 24, 1941. Appliance is formed of rubber or other elastic material and shaped to substantially fit a fruit jar cover. Inside and sides are ribbed to provide better grip. Has open star shaped center, notched side and top, which enables it to either stretch or overlap so that it may be applied to caps of various sizes. May also be used on bottom of jars to provide a support, etc. (Owner) Bocji Corporation, 2212 Oliver Bldg., Pittsburgh 22, Pa. Groups 30—32—51; 40. Reg. No. 664.



Pat. 2,010,960. ALARM AND CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINES. Patented Aug. 13, 1935. An audible and visual signal control arrangement which gives advance notice that the engine is not functioning properly. Provides an electromagnetic control unit which causes stoppage of air supply into the cylinders to discontinue overspeeding of an engine; a pressure responsive circuit which is actuated by failure of lubrication, etc., all of which result in stoppage of the engine by means of timed switches. The predetermined time allowed before switches are operated gives attendant opportunity to correct failures if possible without interrupting normal operation. Particularly adaptable to Diesel and other types of stationary engines. (Co-owner) Brooke L. Jarrett, 2212 Oliver Building, Pittsburgh 22, Pa. Groups 35—12—19; 36—19—41. Reg. No. 665.

Pat. 2,016,918. TILE AND LIKE WALL CONSTRUCTION. Patented Oct. 8, 1935. Tiles are gripped by flanges of metal holders which are sized to fit the standard shaped ceramic or glass tiles or blocks. Concealed clips on the holders engage clamps on a specially formed metal plate already secured to the wall to be covered. Tiles are properly aligned allowing cement or grout to be worked into the joints between and around the tile. Provides a tight fit so that tiles are pried loose only with considerable difficulty. (Owner) Bocji Corporation, 2212 Oliver Bldg., Pittsburgh 22, Pa. Groups 32—53—71; 33—73. Reg. No. 666.

Pat. 2,364,117. GYROSCOPIC TOY. Patented Dec. 5, 1944. A gyroscopic element and a spring motor are completely enclosed within the body of a toy animal enabling toy to perform about a shaft. Key actuated, has means to prevent element from spinning until desired time. (Owner) Voorhis F. Wigal, 1839 Ohio St., Cuyahoga Falls, Ohio. Groups 33—49—73; 34—61; 39—41. Reg. No. 667.

Pat. 2,276,445. RADIO TIMING DEVICE. Patented Mar. 17, 1942. Automatically turns radio on and off for various selected program periods. Compacted within a case is an electric clock (in permanent connection with power source) and a rotor which controls a make and break switch. Around edge of clock face are 96 slides corresponding to the quarter hour periods of a 24-hour day. To set radio switch in operation a slide or number of slides are pulled out beforehand so that electric contact may be established at proper time enabling listener to hear desired program. (Owner) Homer W. Young, 36 John St., Ilion, N. Y. Groups 34—61; 39—61—72—81. Reg. No. 668.

Pat. 2,341,591. RADIO INSTRUCTION KEY. Patented Feb. 15, 1944. For accelerating learning of code by beginners. Consists of a board on which is mounted a grooved non-conducting panel. Within the grooves are metal contact bars having raised portions to indicate code in dots and dashes further identified by the letter placed beside it. The spaces between the dots and dashes are filled with plastic wood so as to be flush with the face of the panel. Battery operated, buzzer sounds when contact is made by a manually moved brush. Blinker may be interposed. (Owner) John A. Blackman, 1219 Cervantes St., Pensacola, Fla. Groups 26—32; 33—73; 36—51—61—71—91. Reg. No. 669.

Pat. 2,381,263. MASON'S IMPLEMENT. Patented Aug. 7, 1945. Mortar container with a funnel-like extension to which is attached a spreading guide and gauge to dispense a continuous ribbon of mortar of uniform thickness along the edge of a brick or block course. Flow of mortar is controlled by hand operated valve. Minimizes wastage of material and may be used instead of a trowel. (Owner) Nathan C. Darling, 219½ Howe Ave., Shelton, Conn. Groups 33—31—52—73. Reg. No. 670.

Pat. 2,090,926. SIREN AND MEANS FOR CONTROLLING THE SAME. Patented Aug. 24, 1937. Reg. No. 671.

Pat. 2,117,642. ELECTRIC MOTOR AND MEANS FOR CONTROLLING THE SAME. Patented May 17, 1938. Reg. No. 672.

Patents 2,090,926 and 2,117,642 relate to a siren having a primary and a secondary circuit. Energizing a solenoid actuates a series of pivoted levers which forces spring tensioned brushes against commutator and armature whereby circuit is closed, armature rotated and siren sounded. When brushes are forced out of contact armature is relieved of frictional drag from brushes and continues to rotate and maintain signal an appreciable time until overcome by inertia. Pat. 2,117,642 provides a secondary circuit for energizing the solenoid while the primary circuit is broken whereby brushes act as brakes to stop siren promptly if desired. Two switches are provided. (Owner) E. D. Bullard Co., 275 Eighth St., San Francisco 3, Calif. Groups 36—62; 38—31.

Pat. 2,128,598. MOTOR DRIVEN DEVICE AND MEANS FOR CONTROLLING SAME. Patented Aug. 30, 1938. Siren wherein linkage means are actuated by creation of a vacuum at an intake manifold to release a tensioned spring which forces brushes into contact with communtator and armature whereby circuit is closed, armature rotated and siren sounded. When brushes are forced out of contact the armature is relieved of frictional drag from brushes and rotates and maintains signal for a considerable period until overcome by inertia. Siren will not operate at high speed since it is necessary to throttle down engine to create sufficient vacuum. (Owner) E. D. Bullard Co., 275 Eighth St., San Francisco 3, Calif. Groups 36—62; 38—31. Reg. No. 673.

Pat. 2,051,324. LAMP. Patented Aug. 18, 1936. Reg. No. 674.

Pat. 2,131,828. LAMP. Patented Oct. 4, 1938. Reg. No. 675.

Patents 2,051,324 and 2,131,828 relate to lights, preferably those used on police cars, ambulances, or the like, which emit colored light; whereby visibility will be enhanced by disturbing the light beams. Former patent provides a resilient mounting so that reflector will vibrate; while latter patent provides a resilient mounting so that light bulb will vibrate, such vibrations being responsive to vibrations caused by movement of vehicle. Tends to reduce glare when used in ordinary headlights. (Owner) E. D. Bullard Co., 275 Eighth St., San Francisco 3, Calif. Groups 34—81; 38—31.

Pat. 2,370,864. ABRADING AND POLISHING DEVICE. Patented Mar. 6, 1945. Designed for co-action with a drill press or the like as a source of power. An abrasive block is attached to a rotating cam moving within a slidable frame. Controlled pressure is exerted on the work to be sanded or polished. (Owner) William Krieger, 2000 Alpha St., Lansing 10, Mich. Groups 32—91; 35—42—53. Reg. No. 676.

Pat. 2,223,962. AUTOMOBILE PARKING AND STORING UNIT. Patented Dec. 3, 1940. Arranged in a building is a centrally located elevator shaft and a number of longitudinally spaced compartments on each floor. Each compartment is equipped with a wheeled truck to support

a parked automobile. In operation automobile is driven on wheeled truck placed within elevator car consisting of a frame and a power driven wheeled base capable of longitudinal movement along rails provided on each floor. At the proper floor wheeled frame moves along track and is stopped opposite empty compartment for disposition of car. An additional feature is that the wheeled trucks are moved in and out of the compartments by a separate detachable linkage mechanism. (Owner) Malcolm E. Mitchell, 2001 N. Beachwood Drive, Hollywood 28, Calif. Groups 32—71; 33—81; 35—62; 36—19—41; 38—31. Reg. No. 677.

---

Pat. 2,266,786. AUTOMOBILE PARKING MECHANISM. Patented Dec. 23, 1941. Automobile is driven into one of a series of protective compartments mounted on an endless conveyer which is propelled by an electric motor and controlled by a gear box. To remove car movement is reversed. A single attendant may take care of a large number of cars in a limited ground space. (Owner) Malcolm E. Mitchell, 2001 N. Beachwood Drive, Hollywood 28, Calif. Groups 24—31; 33—81; 35—62; 36—19—41; 38—31. Reg. No. 678.

---

Pat. 2,227,276. GUM MASSAGING DEVICE. Patented Dec. 31, 1940. Consists of a handle, containing small motor, having two shafts fitted with massaging heads which are readily adjustable by hand to fit thickness of gum. (Owner) Jonah Salit, 871 E. 179th St., Bronx 60, N. Y. Groups 28—83; 36—19—21; 39—17. Reg. No. 679.

---

Pat. 2,347,129. WATCH INDICATOR. Patented Apr. 18, 1944. A small pointer is pivotally mounted on the crystal of a watch or clock by means of a stud which passes through a hole in the crystal. A plastic indicator, half clear so as to blend with crystal and half of some distinctive color, passes transversely through slot of holding stud. Purpose of clear and colored portions is to enable indicator to be slid out of sight when not in use. Meant as a reminder on special occasions. (Owner) Jonah Salit, 871 E. 179th St., Bronx 60, N. Y. Groups 33—73; 34—62; 39—81. Reg. No. 680.

---

Des. 118,268. DESIGN FOR A TOOTH BRUSH. Patented Dec. 26, 1939. Handle is flat near hand portion and a thinner portion near brush is slightly arched. (Owner) Jonah Salit, 871 E. 179th St., Bronx 60, N. Y. Group 39—22—81—99. Reg. No. 681.

---

Pat. 2,041,444. FASTENING DEVICE. Patented May 19, 1936. Functions as a snap fastener for canvas and like fabrics. Utilizes steel balls which are hugged by the side walls of a hollow body. Held by a buffer member at bottom (which may be made of rubber or consist of a spring) and by two bent resilient discs which exert pressure and hold canvas of an automobile frame or tent in place. (Owner) K. A. Mayr, 21 E. 40th St., New York 16, N. Y. Groups 34—31; 35—66; 39—99. Reg. No. 682.

---

Pat. 2,377,938. LOCOMOTIVE SAND TRAP. Patented June 12, 1945. Comprises a sand inlet and sand outlet coupled to delivery pipe. Nozzle composed of tubular stem, having two bores separated by flange, but communicating through small opening, delivers air under pressure into trap, forcing sand into pipe, breaking up scale and lump formations, so sand flows readily from trap, directing a cleaning blast of air into pipe. (Owner) Earl W. Hoffman, 1424 10th St., Sacramento 14, Calif. Groups 33—12—24—66; 34—31; 35—69; 37—11. Reg. No. 683.

---

Pat. 1,998,481. DISPENSING DEVICE. Patented Apr. 23, 1935. Various compartments with sloping top covered by removable plate having openings of various sizes over each compartment, holding fibrous material, in various forms, readily withdrawn by means of dental implements. Removably supported waste container is connected to device by screw-bolt and thumb-nut and may be fastened to suit user. Made of metal, celluloid, hard rubber, or the like. (Owner) Kennie N. Yoder, 208 N. Sixth St., Reading, Pa. Groups 28—83; 30—32; 33—59—73; 39—17. Reg. No. 684.

---

Pat. 2,370,440. SEAM RIPPER. Patented Feb. 27, 1945. Tapered hook-shaped cutting blade with a convex rear edge and a concave front edge. End and concave edge are sharpened and shank of blade is inclined upwardly providing a blade which may be easily inserted into a seam or under a hem and when drawn against stitching, cuts stitching without harming material. (Owner) Alfred D. Beavin, 406 Adams St., Eastport, Md. Groups 33—51—73; 35—42; 39—81—99; 40. Reg. No. 685.

---

Des. 139,639. DESIGN FOR AN ASH TRAY. Patented Dec. 5, 1944. Design for an ash tray having three compartments. (Owner) Wallace A. Davidson, 859 Grand Ave., South San Francisco, Calif. Groups 25—99; 32—29—39; 33—73; 39—81; 40. Reg. No. 686.

---

Pat. 2,376,907. SIDING MATERIAL. Patented May 29, 1945. Pliable siding units embossed with designs of stone, tile or the like bordered with mortar lines. Individual units may be overlapped both vertically and horizontally in various manners to create composite patterns of dissimilar stones, all of which are separated by mortar lines regardless of the degree of overlap. The units may also be installed in strip form. (Owner) Walter H. Davis. Address all correspondence to A. F. Flournoy, 207 First National Bank Bldg., Shreveport, La. Groups 24—31; 29—32; 32—71. Reg. No. 687.

---

Pat. 2,375,239. SAFETY PIN. Patented May 8, 1945. Remains closed until pressed; when in use pressure opens pin and after application release of pressure closes. May be made of spring metal. (Owner) Salem E. Munyer, Jr., 39 Garfield St., Oak Park, Ill. Groups 33—12; 34—41—52; 39—71—81; 40. Reg. No. 688.

---

Pat. 1,898,952. VALVE. Patented Feb. 21, 1933. Valve or faucet having a plurality of inlets and a common outlet with a single handle which is rotated and manipulated vertically to control and regulate the flow and discharge of liquids, gases, or other mediums therefrom. For example hot or cold water, liquid, granular material, etc., may be individually admitted and discharged; or mixed, either in substantially equal proportions or in different proportions, and discharged. (Owner) Franklin A. Gray, 390 Oakland Ave., West New Brighton, Staten Island, N. Y. Group 33—61. Reg. No. 689.

---

Pat. 2,274,188. STRIPPING KNIFE. Patented Feb. 24, 1942. For stripping and trimming hair of animals. Blade section has inclined side edges, one with coarse cutting edge, for cutting hair on body of animal and other has a fine cutting edge for trimming hair on head and ears; upper surface has indentation for user's thumb. (Owner) Allan M. Campbell, 13307 Ardmore Ave., Detroit 27, Mich. Groups 33—12—51—59; 40. Reg. No. 690.

---

Pat. 2,362,241. CYLINDER CONSTRUCTION. Patented Nov. 7, 1944. Ends of cylindrical body have removably secured sectional ring members, with interlocking means between ring members and body portion. Bands fit over sectional ring members, holding sections together. Ring members have openings, which align with openings of cylinder head and are bolted together providing an airtight connection. (Owner) Allan M. Campbell, 13307 Ardmore Ave., Detroit 27, Mich. Groups 33—73; 35—42. Reg. No. 691.



Pat. 2,288,692. AUTO BABY HOLDER. Patented July 7, 1942. Consists of two vertical rods which serve as guide tracks for harness; hook-shaped upper ends are rubber covered and fit over top of seat back; lower ends are bent inwardly to fit between seat and back. Vertical members are spaced apart and connected by horizontal rods. (Owner) Ray R. Fearson, 1816 N. Quebec St., Arlington, Va. Groups 22—44; 31—99; 33—41—73; 34—90; 40. Reg. No. 692.

---

Pat. 1,788,613. WIND INSTRUMENT. Patented Jan. 13, 1931. Relates to a woodwind instrument, particularly an ocarina. Has tapered body of stamped sheet metal, a mouth-piece on top, and aligned tone vents. Provides an escape vent at the smaller end to change the octave and a vent at the large end, which may be provided with a pivoted valve, to change the size of the tone chamber to facilitate the change from half to full tones. Notes are marked beside vents, and tones are indicated by a varying number of raised staff lines as an aid to beginners or the blind. Produces 23 tones. (Owner) Harry Bernard, 207 Newark St., Hoboken, N. J. Group 39—39. Reg. No. 693.

---

Pat. 1,703,382. MUSICAL INSTRUMENT. Patented Feb. 26, 1929. A means for permitting the playing of the chromatic scale with less than the conventional number of openings. Has five finger controlled vents which emit whole tones. By means of an attachment pitch can be altered to play 12 consecutive half tones. Can be adapted to many wind instruments. (Owner) Harry Bernard, 207 Newark St., Hoboken, N. J. Group 39—39. Reg. No. 694.

---

Pat. 1,791,299. MUSICAL WIND INSTRUMENT. Patented Feb. 3, 1931. An addition to the normal number of lateral air vents provides improved organization and control and permits player of a wind instrument (saxophone, oboe, etc.,) to produce musical scales at more than one place. Bell portion functions as liquid trap as vents are placed only in uncurved portion of instrument. (Owner) Harry Bernard, 207 Newark St., Hoboken, N. J. Group 39—39. Reg. No. 695.

In the three patents listed above, the inventor states that efficient placement of lateral vents permits instruments to be played by maimed musicians.

---

Pat. 2,277,485. PROCESS FOR TREATING NUTS. Patented Mar. 24, 1942. Process consists broadly of placing nuts in rotating drum in contact with powdered anhydrous aluminum chloride for a stated period after which they are soaked in several changes of water; washed with a solution of sodium carbonate to neutralize and remove all traces of the chloride; and dried. Hull not appreciably discolored is softened and may be cracked by pressure of the fingers to remove whole kernel which remains unharmed throughout the process. (Owner) Mrs. Mildred B. Frazier, Wilmington, Del. Groups 20—99; 28—89; 35—51. Reg. No. 696.

---

Pat. 2,171,998. POULTRY FEED DISPENSING DEVICE. Patented Sept. 5, 1939. Comprises a storage hopper to feed by gravity, feed or other material, into troughs or trays positioned under bins. Guide plates which compose slot may be adjusted by means of a crank to allow various sizes of grain to pass into troughs. Removable or hinged cover prevents access by poultry. (Owner) Joseph F. Trapani, 641 46th St., Brooklyn 20, N. Y. Groups 33—73; 34—95; 35—22. Reg. No. 697.

---

Pat. 2,174,939. FILING CABINET. Patented Oct. 3, 1939. Feature of invention is that front of drawers may be extended further forward by means of a false bottom (which overlies the regular bottom of the drawer) and tilted so as to facilitate inspection of contents. Usual latch devices for retaining front wall and bottom section in locked position are provided, etc. (Owner) Erwin S. Howard, Oswego, N. Y. Groups 25—21—22; 33—59—73. Reg. No. 698.

Pat. 2,286,944. MOP. Patented June 16, 1942. Consists of a sponge rubber cleaning element held by a sectional sheet metal backing plate. Straddling the head of the mop is a U-shaped frame containing a roller which is pivotally mounted so that it may be swung down and moved along the length of a slot in the side of the mop to compress the mop and remove the water so that hands will not touch water. (Owner) Ernest Altland, Abbottstown, Pa. Groups 23—93; 25—99; 30—52; 33—73; 35—69; 40. Reg. No. 699.

---

Pat. 2,312,922. AUTOMATIC MACHINE FOR DRILLING, REAMING, ETC. Patented Mar. 2, 1943. Consists of a rectangular frame on which rails are positioned to support a slidable work platform capable of movement both transversely and longitudinally; an adjustable support on which is mounted a gang of tools; and an automatic work supply and discharge system. Provision is made to move work platform to a position where the gang of tools may do work either individually or collectively. (Owner) Philip Mann, 1200 College Ave., Bronx, N. Y. Groups 35—41—43—59—66. Reg. No. 700.

---

Pat. 2,238,208. MOTORCYCLE. Patented Apr. 15, 1941. Reg. No. 701.

Pat. 2,291,860. INTERNAL COMBUSTION ENGINE. Patented Aug. 4, 1942. Reg. No. 702.

Pat. 2,238,208 shows a self-contained power unit in which the motor starting, power transmission, lubricating and breather elements perform several functions, thus tending to reduce the number of parts and weight. In Pat. 2,291,860, gears connecting the crank shaft with the transmission shaft are used to pump lubricant to the various moving parts of the engine, utilizing, also, the shaft connecting and timing the gears to pump the lubricant in accordance with the operative engine speed to distribute the oil in a suitable heated condition. (Owner) Mark Wade Anthony, 208 East Valentine St., Tyler, Tex. Groups 35—19; 37—41; 38—31.

---

Pat. 2,127,384. MOTORCYCLE ENGINE TRANSMISSION. Patented Aug. 16, 1938. Provides a condensed construction of motorcycle engine transmission by carrying the transmission shaft in the crankcase in common with the crank shaft. Valve operating cams are carried at the transmission side of the crankcase and rotated in timed relation to the crankshaft which is a releasable element of the powershaft, etc. Inventor states construction is simplified lending it to more enonomic manufacture. (Owner) Mark Wade Anthony, 208 East Valentine St., Tyler, Tex. Groups 35—19; 37—41; 38—31. Reg. No. 703.

---

Pat. 1,835,488. WINDOW CONSTRUCTION. Patented Dec. 8, 1931. Rectangular hollow metal window frame slidably mounted within a pair of sliding stiles. The sashes are hinged vertically so as to be opened inwardly to permit easier cleaning of the panes. In addition to the usual type of fastener, window may be locked from the inside to prevent vertical movement by means of screw threaded rods passing through the sash into threaded bushings in the sliding stiles and by further locking pins. (Owner) Mrs. W. H. Saunders, 3 Bennett Ave., Binghamton, N. Y. Groups 24—31; 33—59—83. Reg. No. 704.

---

Pat. 2,221,378. PLASTIC AND PROCESS FOR PRODUCING SAME. Patented Nov. 12, 1940. Oil and tarry wastes resulting from the destructive distillation of wood are mixed with a cellulose ester and distilled to remove a portion of the volatile constituents at given temperatures. Examples and results given in patent. (Owner) Fred J. Heckel, 47 William St., Bradford, Pa. Groups 26—89; 28—11—34; 29—32; 36—11. Reg. No. 705.

Pat. 2,150,157. DUSTPROOF VENTILATOR. Patented Mar. 14 1939. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) For crank case of engine. Welded to outer wall of enclosure over outlet; outlet covered by a filter material and interior loosely filled with same. Filter material held in place by cotter key. Air passing over device causes partial vacuum, removing acid and moisture fumes and preventing dust and moisture from entering motor. (Owner) Harrison Franklin, 1913 Taft St., Lawton, Okla. Groups 33—73; 34—95; 35—11—19; 37—11; 40. Reg. No. 706.

Pat. 2,256,052. VELOCIPEDE. Patented Sept. 16, 1941. Velocipede type toy vehicle having a toy horse or the like built and suspended on an elongated frame with linkage means attached to front wheel. During movement of vehicle by pedaling action motion is imparted to toy to simulate trotting. Head and flexible neck of figure, when turned by reins also turns front wheel to steer vehicle. Seat is positioned in back of horse. (Owner) Joseph Alfred La Bille, 5224 So. Green St., Chicago 9, Ill. Group 39—41—43. Reg. No. 707.

Pat. 2,380,182. INHALER. Patented July 10, 1945. Tube having a perforated disc with a pin attached for supporting and suepending a body carrying a medicament within front portion of tube. Tube may be heated by a towel soaked in hot water which provides heated vapors mixed with medicament for inhaling. Disc separates tube into two chambers. (Owner) Joseph Alfred La Bille, 5224 So. Green St., Chicago 9, Ill. Groups 28—31; 39—15. Reg. No. 708.

Pat. 2,212,781. AMUSEMENT DEVICE. Patented Aug. 27, 1940. Velocipede type toy vehicle having a toy horse or the like pivotally supported and suspended on a triangular-shaped frame. Rocking motion imparted to horse by youth sitting in saddle actuates a crank which causes rotation of chain and sprocket driving means to propel toy, movement of the legs simulating a running horse. (Owner) Joseph Alfred La Bille, 5224 So. Green St., Chicago 9, Ill. Groups 39—41—43. Reg. No. 709.

Pat. 1,775,284. AIR NAVIGATING MACHINE. Patented Sept. 9, 1930. Aircraft propelled in usual manner is provided with auxiliary lifting mechanism to lift craft substantially vertically into atmosphere. Circular opening in top of plane in which mechanism revolves is normally closed by web members constituting segments of a circle attached to two sets of radiating spokes of two hubs which are mounted on a common shaft. Top hub is stationary while the other hub is slidable on shaft. When mechanism is inoperative segments completely close opening forming an unbroken surface; but when mechanism is rendered operative web segments are brought into various positions so that they are changed from a continuous flat surface to helical position constituting propelling means when the shaft is rotated. May utilize power source of aircraft or have a separate power unit. (Owner) Joseph Alfred La Bille, 5224 So. Green St., Chicago 9, Ill. Group 37—21—22. Reg. No. 710.

Pat. 2,078,857. CLOTHESLINE PULLEY. Patented Apr. 27, 1937. Pulley having two clamping members formed integral therewith normally out of engagement with the rope passing therebetween which may be clamped together to frictionally grip and hold the rope at any point along its length. A slight pull upon one end of rope releases clamping members. Pulley carries a stud bolt for attachment to suitable support. (Owner) Fred L. Kohlhagen, Frankfort, Ill. Groups 25—99; 33—73; 35—81. Reg. No. 711.

Des. 123,570. DESIGN FOR CHESS PIECES. Patented Nov. 19, 1940. Ornamental design for chess pieces of the solid block type. (Owner) Shepard J. Goldin, 315 West Fourth St., New York 14, N. Y. Groups 25—99; 39—41—49; 40. Reg. No. 712.

**Notice**

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# TRADE-MARKS

## OFFICIAL GAZETTE, DECEMBER 11, 1945

[VOL. 581. No. 2]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 486,608. COLUMBIA HANDBAG CORP., New York, N. Y. Filed Aug. 2, 1945.




The word "Money" appearing in the mark is disclaimed apart from the mark as shown.

FOR BILLFOLDS.

Claims use since June 25, 1945.

Ser. No. 486,748. S. BUCHSBAUM & Co., Chicago, Ill. Filed Aug. 6, 1945.




No claim is made to the word "Style" apart from the mark shown.

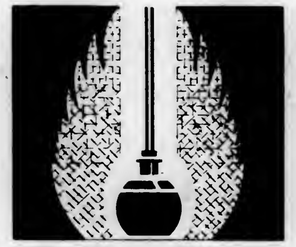
FOR BILLFOLDS.

Claims use since June 4, 1940.

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 480,576. THE C. P. HALL COMPANY, Akron, Ohio. Filed Mar. 7, 1945.



The mark represents on a black background a flame colored area on each side of a central white portion which includes a black object. Any representation of a container is disclaimed apart from the mark.

FOR CERIUM OXIDE FOR USE AS AN ABRASIVE, SOAP SOLUTIONS, PUMICE STONE, DRY CLEANING SOLVENTS, CARBON TETRACHLORIDE FOR USE IN CLEANING, CARBON BISULFIDE FOR USE IN CLEANING, ETHYLENE DICHLORIDE FOR USE IN CLEANING, AND PETROLEUM DISTILLATES FOR USE IN CLEANING, TALC FOR USE AS AN ABRASIVE, IRON OXIDE FOR USE AS AN ABRASIVE, AND PEPTIZING AGENTS FOR USE IN CLEANING.

Claims use since Nov. 30, 1943.

Ser. No. 483,734. THE NATIONAL MARKING MACHINE COMPANY, Cincinnati, Ohio. Filed May 24, 1945.




FOR CLEANING COMPOUND FOR CLEANING TYPE-WHEELS, INK BOX AND OTHER PARTS OF LAUNDRY MARKING MACHINE.

Claims use since Jan. 1, 1921.

Ser. No. 485,495. HERBERT J. HERIBERT, New York, N. Y. Filed July 6, 1945.

Luplex

FOR SOLUTIONS TO BE USED AS COATINGS OR FINISHES OR LACQUERS FOR LEATHER.
Claims use since Sept. 1, 1944.

Ser. No. 486,642. ARMSTRONG CORK COMPANY, Manheim Township, Lancaster County, Pa. Filed Aug. 3, 1945. Under section 5b of the act of 1905 as amended in 1920.

Armstrong's

FOR CLEANING PREPARATION IN GRANULE, POWDER, LIQUID, AND OTHER FORMS FOR GENERAL CLEANING PURPOSES AND IN PARTICULAR FOR CLEANING LINOLEUM, FELT BASE, AND OTHER HARD SURFACED FLOOR AND WALL COVERINGS, WOOD, TERRAZZO, CERAMIC TILE, CORK TILE, RUBBER TILE, ASPHALT TILE, AND OTHER FLOOR AND WALL COVERINGS.
Claims use since Mar. 27, 1935.

Ser. No. 486,669. THE DELTA MANUFACTURING COMPANY, Milwaukee, Wis. Filed Aug. 3, 1945.

Deltacraft

FOR SANDING KITS CONTAINING INDIVIDUAL CONTAINERS OF CEMENT AND ASSORTED GRADES OF ABRASIVE GRIT FOR PRODUCING SANDING BLOCKS.
Claims use since June 6, 1945.

## CLASS 6

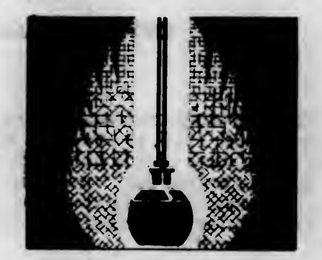
### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 477,934. KOPPERS COMPANY, INC., Kearny, N. J. Filed Dec. 26, 1944.

LAVENDINE

FOR SCENTED INSECTICIDE, NAPHTHALENE COMBINED WITH LAVENDER FLOWERS.
Claims use since December 1918.

Ser. No. 480,577. THE C. P. HALL COMPANY, Akron, Ohio. Filed Mar. 7, 1945.



The lining on the drawing indicates the colors yellow and orange.
FOR RUBBER COMPOUNDING INGREDIENTS, RUBBER ACCELERATORS, RUBBER ANTIOXIDANTS, PLASTICIZERS FOR RUBBER AND OTHER PLASTICS, SOFTENERS FOR PLASTICS, CHEMICAL TACKIFIERS FOR PLASTICS, SULFUR, ACTIVATORS FOR ACCELERATORS OF THE VULCANIZATION OF RUBBER, CHEMICAL RETARDERS TO PREVENT PREMATURE VULCANIZATION OR SCORCHING OF RUBBER, CHEMICAL RETARDERS OF THE VULCANIZATION OF RUBBER, CHEMICAL RETARDERS OF THE SUNCHECKING OF RUBBER, CHEMICAL BLOWING AGENTS FOR USE IN PLASTICS TO LIBERATE GAS AND CONVERT THE PLASTIC TO A SPONGE, AND CHEMICAL RETARDERS OF FLEX-CRACKING IN PLASTICS, ACIDS, HYDROCHLORIC ACID, NITRIC ACID, SULFURIC ACID, HYDROFLUORIC ACID, LEAD OLEATE, ZINC STEARATE, ORGANIC CHEMICALS TO BE USED AS SOLVENTS, CARBON BISULFIDE, CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, PETROLEUM FRACTIONS TO BE USED AS SOLVENTS, SULFUR CHLORIDE, INORGANIC SALTS, CALCIUM CHLORIDE, COPPER SULFATE, MAGNESIUM CARBONATE, SODA ASH, SODIUM BICARBONATE, SODIUM FLUORIDE, SODIUM HYPOSULFITE, SODIUM PHOSPHATES, ZINC, AMMONIUM CHLORIDE, BARIUM SULFATE, AND ZINC AMMONIUM CHLORIDE, SODIUM SILICATE, INORGANIC CHEMICAL BASES, LIME FOR USE AS A CHEMICAL REAGENT, MAGNESIA FOR USE AS A CHEMICAL REAGENT, CAUSTIC SODA, SODA ASH, AND SODIUM BICARBONATE; DISPERSING AGENTS, WETTING AGENTS, WATER SOFTENERS, MILDEW RETARDANTS, REFRIGERATING BRINES, DEHYDRATING AND DRYING AGENTS, CHEMICAL FIRE EXTINGUISHERS, PLASTICIZERS AND SOFTENERS FOR PLASTICS, CERIUM OXIDE, IRON OXIDES, LEAD OXIDES, PEPTIZING AGENTS, AND ZINC OXIDE.
Claims use since Nov. 30, 1943.

Ser. No. 480,828. IRIS J. KINYON, doing business as Kinyon Remedy Company, Topeka, Kans. Filed Mar. 12, 1945.

KINRECO

No claim is made to the use of the words "Trade Mark".
FOR PREPARATION USED IN THE TREATMENT OF "ATHLETE'S FOOT" AND "JUNGLE ITCH".
Claims use since 1920



Ser. No. 481,849. MARBLEHEAD LIME COMPANY, Chicago, Ill. Filed Apr. 2, 1945.

UNIVERSITY

FOR MINERAL SUPPLEMENT FOR LIVE STOCK AND POULTRY FEED.
Claims use since Mar. 29, 1945.

Ser. No. 482,332. ROBERT S. KYLE, doing business as Kyle Products, Los Angeles, Calif. Filed Apr. 19, 1945.



TrysT

FOR COSMETICS—NAMELY, FACE CREAM, SKIN LOTION, FACE POWDER, POWDER BASE, CLEANSING CREAM, BATH CRYSTALS, AND COLOGNE.
Claims use since Dec. 26, 1944.

Ser. No. 484,302. EMMETT M. KING, New York, N. Y. Filed June 8, 1945.

FOREVER AMBER

No claim is made to the word "Amber" apart from the mark as shown.
FOR PERFUME, COLOGNES, TOILET WATER, ROUGE, LIPSTICK, AND FACE POWDER.
Claims use since May 19, 1945.

Ser. No. 484,303. EMMETT M. KING, New York, N. Y. Filed June 8, 1945.

TOUJOURS AMBER

No claim is made to the word "Amber" apart from the mark as shown.
FOR PERFUME, COLOGNES, TOILET WATER, ROUGE, LIPSTICK, AND FACE POWDER.
Claims use since May 19, 1945.

Ser. No. 484,655. ALADDIN LABORATORIES, INC., Minneapolis, Minn. Filed June 18, 1945.

RIN-TINT

The word "Tint" is disclaimed apart from the mark.
FOR HAIR RINSE PREPARATION.
Claims use since May 24, 1945.

Ser. No. 484,999. ROBERT C. BAUMGARDNER, doing business as Beco Laboratories, St. Paul, Minn. Filed June 25, 1945.




FOR NAIL POLISH REMOVER, HAIR SHAMPOO, TINCTURE OF GREEN SOAP, WAVE SET, HAIR OIL, BRILLIANTINE, SKIN LOTION, MOSQUITO CREAM, PETROLEUM JELLY, MEDICINAL MINERAL OIL, AND RUBBING ALCOHOL.
Claims use since May 1936.

Ser. No. 485,225. LARAY COSMETICS, INC., Newark, N. J. Filed June 29, 1945.

ELUSIVE

FOR PERFUME.
Claims use since Nov. 15, 1936.

Ser. No. 485,322. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa. Filed July 2, 1945.

ALODINE

FOR CHEMICAL COMPOSITION USED IN PRODUCING AN ADHERENT COATING UPON ALUMINUM AND ALLOYS OF ALUMINUM.
Claims use since May 22, 1945.

Ser. No. 485,588. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 9, 1945.

IRADOGEN

FOR IRADOGEN FOR A BIOLOGICAL PRODUCT FOR USE ON IRRADIATED BACTERIAL AND VIRUS VACCINE PREPARATIONS.
Claims use since Mar. 17, 1945.

Ser. No. 485,590. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 9, 1945.

VENTREX

FOR ANTIANEMIC PREPARATION.
Claims use since June 25, 1945.

Ser. No. 485,784. LUCKY TIGER MANUFACTURING COMPANY, Kansas City, Mo. Filed July 13, 1945.

LUCKY TIGER



The picture is purely fanciful.
FOR SHAMPOO, OIL SHAMPOO, HAIR DRESSING, OIL HAIR DRESSING, HAIR TONIC, AND ANTISEPTIC OINTMENT.
Claims use since Aug. 1, 1917.

---

Ser. No. 485,812. CARMAN & CO., INC., New York, N. Y. Filed July 14, 1945.

ISOTABS

FOR BLUING PREPARATION.
Claims use since Nov. 14, 1944.

---

Ser. No. 486,073. UREGAS SERVICE, INC., Moberly, Mo. Filed July 20, 1945.

Uregas
(YOUR GAS)

The word "gas" is disclaimed apart from the mark as shown.
FOR BOTTLED GAS USED FOR FUEL AND ILLUMINATING PURPOSES.
Claims use since Apr. 7, 1941.

---

Ser. No. 486,173. GARFIELD SORENSEN, doing business as Sorensen and Company, Los Angeles, Calif. Filed July 23, 1945.

BLOOD-BANK

The word "Blood" is disclaimed apart from the mark as shown.
FOR PREPARATION FOR THE TREATMENT OF ANEMIAS.
Claims use since July 17, 1945.

---

Ser. No. 486,255. HERCULES POWDER COMPANY, Wilmington, Del. Filed July 25, 1945.

HERCULES

FOR CARBOXYMETHYLCELLULOSE.
Claims use since July 13, 1945.

Ser. No. 486,645. BEEBE LABORATORIES, INC., St. Paul, Minn. Filed Aug. 3, 1945.

B-Chloro

FOR DISINFECTANT AND GERMICIDAL TREATMENT OF DRINKING WATER FOR CHICKENS AND TURKEYS.
Claims use since Jan. 25, 1945.

---

Ser. No. 486,646. BEEBE LABORATORIES, INC., St. Paul, Minn. Filed Aug. 3, 1945.

CALFLETS

FOR VITAMIN PREPARATION FOR THE PREVENTION OF SCOURS IN CALVES.
Claims use since July 1, 1944.

---

Ser. No. 486,732. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y. Filed Aug. 6, 1945.

AEROHEAT

FOR CHEMICAL PREPARATION FOR USE AS A MEDIUM FOR THE HEAT TREATMENT OF METALS.
Claims use since December 1943.

---

Ser. No. 486,764. THEODORE E. GAETZ, doing business as L. C. Q. Drug Products Company, Worcester, Mass. Filed Aug. 6, 1945.

L-C-Q-

FOR ANTACID POWDER FOR GASTRIC DISTURBANCES.
Claims use since July 15, 1943.

---

Ser. No. 486,820. PETER SPERLONGA, doing business as La-Lin Products, Long Island City, N. Y. Filed Aug. 6, 1945.

LA LIN

FOR PREPARATION FOR TREATING THE HAIR.
Claims use since July 2, 1945.

---

Ser. No. 486,869. QUALITY PRODUCTS CO., INC., New York, N. Y. Filed Aug. 7, 1945.

GARDEN WALK

FOR PERFUMES AND TOILET WATER.
Claims use since May 9, 1945.



Ser. No. 486,870. QUALITY PRODUCTS CO., INC., New York, N. Y. Filed Aug. 7, 1945.

NIGHTFALL

FOR PERFUMES AND TOILET WATER.
Claims use since May 9, 1945.

---

Ser. No. 486,872. QUALITY PRODUCTS CO., INC., New York, N. Y. Filed Aug. 7, 1945.

WISTFUL

FOR PERFUMES AND TOILET WATER.
Claims use since May 9, 1945.

---

## CLASS 9

### EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 485,652. RIVAL FOODS, INC., Cambridge, Mass. Filed July 10, 1945.

RIVAL

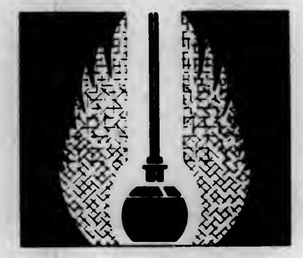
FOR MATCHES.
Claims use since January 1927 on "Rival"; and since Feb. 27, 1945, on present showing.

---

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 480,578. THE C. P. HALL COMPANY, Akron, Ohio. Filed Mar. 7, 1945.



The lining on the drawing indicates the colors yellow and orange. Any representation of a container is disclaimed apart from the mark as shown.

FOR INK PIGMENTS, VEHICLES FOR PRINTING INKS AND VARNISHES TO BE USED IN PRINTING INKS, THINNERS FOR USE IN PRINTING INKS AND FOR USE IN VARNISHES TO BE USED IN PRINTING INKS, COPPER SULFATE FOR USE IN PRINTING INKS, MAGNESIUM CARBONATE FOR USE AS A STIFFENING AGENT IN PRINTING INKS, FIRE-PROOFING MATERIALS FOR USE IN INKS, MAGNESIA FOR USE AS A FIRE-PROOFING MATERIAL IN INKS, TALC AS A FLATTING AGENT IN INKS, AND ABRASION-RESISTANT MATERIALS FOR USE IN INKS FOR CARTONS TO GIVE THE CARTONS A NONABRADING SURFACE.
Claims use since Nov. 30, 1943.

---

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 487,224. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Filed Aug. 17, 1945.

SAPPHIRITE

FOR HIGH TEMPERATURE RESISTING ARTICLES—NAMELY, BLOCKS, TUBES, AND OTHER SHAPES, AND POWDER USED FOR HEAT INSULATION PURPOSES AND TO EMBED ARTICLES FOR FIRING IN KILNS OR FURNACES, AND CORROSION RESISTANT ARTICLES—NAMELY, BLOCKS, TUBES, AND OTHER SHAPES, MADE OF FIRED VITREOUS MATERIALS AND USED FOR CONSTRUCTING VESSELS OR PIPES OR LINERS FOR VESSELS OR PIPES FOR CONTAINING OR TRANSPORTING CORROSIVE SUBSTANCES—NAMELY, CORROSIVE CHEMICAL SOLIDS, CORROSIVE CHEMICAL BATHS, AND CORROSIVE CHEMICAL VAPORS, THE CORROSIVE CHEMICALS BEING ACID, BASIC, OR ACID AND BASIC MIXTURES.
Claims use since July 21, 1945.

---

Ser. No. 487,979. WESTERN PINE ASSOCIATION, Portland, Oreg. Filed Sept. 4, 1945. Under the act of February 20, 1905, as amended June 10, 1938.

WPA SUGAR PINE

No claim is made to the words "Sugar Pine" apart from the mark as shown.
FOR LUMBER, MILLWORK, AND LATH.
Claims use since May 19, 1932.

---

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 486,650. THE CHAS. W. BRENEMAN CO., Cincinnati, Ohio. Filed Aug. 3, 1945.

Patrician

FOR BATHROOM SETS, CONSISTING OF SHOWER CURTAINS AND WINDOW CURTAINS.
Claims use since September 1943.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 475,484. DODGE MANUFACTURING CORPORATION, Mishawaka, Ind. Filed Oct. 19, 1944.

D

FOR CASTINGS COMPRISING PARTS FOR POWER TRANSMISSION MACHINERY—NAMELY, CAST IRON SHAFT SUPPORTS, SHAFT HANGERS, BEARING HOUSINGS AND SUPPORTS, GEARS, SPROCKETS, PULLEYS, SHEAVES, COLLARS, CLUTCH PARTS AND SHAFT-COUPLING PARTS, AND PARTS FOR ELEVATING AND CONVEYING MACHINERY—NAMELY, CAST IRON CONVEYER ROLLS AND CONVEYER ROLL SUPPORTS, BUT NOT INCLUDING TEXTILE MACHINERY OR SPECIAL PARTS SPECIFICALLY INTENDED FOR USE THEREWITH.
Claims use since July 15, 1903.

---

Ser. No. 481,212. THE CONSOLIDATED MINING AND SMELTING COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada. Filed Mar. 23, 1945.

TADANAC

FOR CADMIUM, MERCURY, INDIUM, BISMUTH, AND TIN.
Claims use since Mar. 21, 1916.

---

Ser. No. 485,613. STANDARD STEEL SPRING COMPANY, Coraopolis, Pa. Filed July 9, 1945.

CORRONIZED
For Enduring Protection
Against Rust

The lining on the drawing represents shading. The words "For Enduring Protection Against Rust" are disclaimed apart from the mark as shown.
FOR PROTECTIVELY SURFACED FERROUS OR NONFERROUS METALS.
Claims use since Sept. 19, 1943.

## CLASS 15

### OILS AND GREASES

Ser. No. 473,639. EXOLA PRODUCTS CO., Los Angeles, Calif. Filed Aug. 26, 1944.

EXOLA

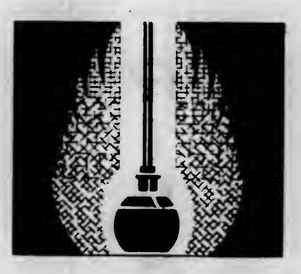
FOR PENETRATING OIL, COMPRESSOR OILS, OILINESS ADDITIVES FOR LUBRICATING OIL, SPECIAL BEARING OILS, SPINDLE OILS, CUTTING OILS, CABLE OILS AND GREASES, AND TOP CYLINDER AND VALVE OILS, AND DRAWING OILS.
Claims use since August 1939.

---

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 480,580. THE C. P. HALL COMPANY, Akron, Ohio. Filed Mar. 7, 1945.



The lining on the drawing indicates the colors yellow and orange. Any representation of a container is disclaimed apart from the mark as shown.
FOR PAINT PIGMENTS, PAINT VEHICLES, DRIERS, MAGNESIUM CARBONATE FOR PAINT FILLER, MICA FOR USE AS A FLATTING AGENT IN PAINTS AND AS AN AGENT TO MAKE PAINTS ABRASION RESISTANT, SODIUM FLUORIDE FOR USE IN ENAMELS AND PAINTS, TALC FOR USE AS A FLATTING AGENT FOR PAINTS AND AS AN AGENT TO MAKE PAINTS ABRASION RESISTANT, CLAYS FOR USE AS A FLATTING AGENT FOR PAINTS AND AS AN AGENT TO MAKE PAINTS ABRASION RESISTANT, CARBON BLACK FOR USE IN PAINTS, SOLVENTS AND THINNERS FOR USE IN PAINTS, LACQUERS, VARNISHES, AND ENAMELS, PLASTICIZERS FOR USE IN PAINTS AND LACQUERS, AND NATURAL AND SYNTHETIC RESINS FOR USE IN PAINTS, LACQUERS, AND VARNISHES.
Claims use since Mar. 30, 1943.

---

Ser. No. 486,643. ARMSTRONG CORK COMPANY, Manheim Township, Lancaster County, Pa. Filed Aug. 3, 1945. Under section 5b of the act of 1905 as amended in 1920.

*Armstrong's*

FOR LIQUID POLISHING WAX.
Claims use since Nov. 2, 1925.



## CLASS 19

### VEHICLES

Ser. No. 481,173. BADGER BODY MANUFACTURING COMPANY, Omaha, Nebr. Filed Mar. 22, 1945.

BADGER BODY MFG. CO. Badger

Applicant disclaims all wording except "Badger" apart from the mark as shown.
FOR BODIES AND CABS FOR TRUCK AND PASSENGER AUTOMOBILES AND COMMERCIAL AND PASSENGER TRAILERS.
Claims use since 1919.

---

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 441,745. PERRINE QUALITY PRODUCTS CORPORATION, Waltham, Mass. Filed Mar. 20, 1941.

GOLD STANDARD

Applicant is owner of registration No. 306,006, issued Aug. 29, 1933.
FOR STORAGE BATTERIES.
Claims use since March 1931.

---

Ser. No. 462,167. NATIONAL STAMPING & ELECTRIC WORKS, Chicago, Ill. Filed July 19, 1943.

WHITE ⊞ CROSS

FOR ELECTRIC SMOOTHING IRONS, ELECTRIC GRILLS, ELECTRIC TOASTERS AND STOVES, ELECTRIC LANTERNS, ELECTRIC MOTORS, ELECTRIC HAIR CURLERS, ELECTRIC FANS, ELECTRIC ROASTERS, ELECTRIC PERCOLATORS, ELECTRIC SANDWICH TOASTERS, ELECTRIC ROOM HEATERS, ELECTRIC COFFEE MAKERS, ELECTRIC HOT CUPS, ELECTRIC GRIDDLES, ELECTRIC WAFFLE IRONS, AND ELECTRIC FUDGE WARMERS.
Claims use on electric smoothing irons, electric grills, electric toasters and stoves, electric lanterns, electric motors, electric hair curlers, and electric fans since 1913; on electric roasters, electric percolators, electric sandwich toasters, and electric room heaters since 1920; and on electric coffee makers, electric hot cups, electric griddles, electric waffle irons, and electric fudge warmers since 1929.

Ser. No. 471,783. "AUTOMATIC" SPRINKLER COMPANY OF AMERICA, Youngstown, Ohio. Filed June 29, 1944.

LIGHTNING HIGH SPEED

No claim is made to the words "High Speed" apart from the mark.
FOR PHOTOELECTRIC CELLS AND THEIR ACTUATING CIRCUITS AND PARTS THEREOF ADAPTED FOR USE IN HIGH SPEED INSTANT OPERATION OF AUTOMATIC SPRINKLER SYSTEMS.
Claims use since Jan. 15, 1943.

---

Ser. No. 476,889. STATIONERS' GUILD OF AMERICA, Philadelphia, Pa. Filed Nov. 25, 1944.

Guild

FOR ELECTRIC FANS AND ELECTRIC DESK LAMPS.
Claims use since Apr. 1, 1944.

---

Ser. No. 481,756. POOR & COMPANY, Chicago, Ill. Filed Apr. 5, 1945.

PRO MAT KICKER

FOR ELECTRICAL APPARATUS USED IN THE ELECTRODEPOSITION OF METALS FROM PLATING BATHS.
Claims use since Apr. 15, 1942.

---

Ser. No. 481,986. FEDERAL ELECTRIC COMPANY, INC., Chicago, Ill. Filed Apr. 11, 1945.

NEOLITE

FOR COLD CATHODE ELECTRIC DISCHARGE LAMPS.
Claims use since Mar. 12, 1945.

---

Ser. No. 483,847. ELECTRONIC PRODUCTS MANUFACTURING, INCORPORATED, Dexter, Mich., now by change of name to Vokar Corporation. Filed May 28, 1945.

VOKAR

FOR RADIO COILS, RADIO VIBRATORS, ELECTRIC PLUG-IN JACKS, CRYSTAL HOLDERS, SWITCHES, JUNCTION BOXES, TUBES, SPEAKERS, SENDING AND RECEIVING RADIO SETS, TELEVISION SETS AND DIALS THEREFOR.
Claims use since Dec. 4, 1939.

Ser. No. 484,335. BENJAMIN J. AUDETTE, doing business as Benmatt Organization, Chicago, Ill. Filed June 9, 1945.

RETRACTO

FOR ELECTRIC IRON CORD.
Claims use since Apr. 21, 1942.

Ser. No. 484,348. VICTOR LEBOW, Brooklyn, N. Y., assignor to Sidney Schwartz, New York, N. Y. Filed June 9, 1945.

bantamlite

FOR POCKET ELECTRIC FLASHLIGHTS.
Claims use since June 6, 1945.

Ser. No. 484,435. ST. LOUIS MUSIC SUPPLY CO., St. Louis, Mo. Filed June 9, 1945.

PIONEER

FOR ELECTRONIC SOUND EQUIPMENT—NAMELY, RADIOS, RADIO-PHONOGRAPH COMBINATIONS, AND PARTS THEREFOR.
Claims use since May 15, 1945.

Ser. No. 484,567. HAN-KOR, INC., Cleveland, Ohio. Filed June 15, 1945.

HK

FOR ELECTRIC COMMUTATORS.
Claims use since on or about Jan. 7, 1944.

## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 484,651. VIRGINIA-LINCOLN CORPORATION, Marion, Va. Filed June 16, 1945.

VIRGINIA-LINCOLN CORP.
MARION, VIRGINIA
Valin

The name "Virginia-Lincoln Corp." and the term "Marion, Virginia" are disclaimed apart from the mark shown.
FOR AIRCRAFT TOWING TARGETS.
Claims use since May 10, 1945.

Ser. No. 485,800. UMBRIAGO CORPORATION, New York, N. Y. Filed July 13, 1945.

Umbriago

FOR NOVELTY DOLLS AND DOLL HEADS.
Claims use since May 10, 1945.

Ser. No. 485,802. VIRGINIA-LINCOLN CORPORATION, Marion, Va. Filed July 13, 1945.

Valin

The name "Virginia-Lincoln Corp." and the term "Marion, Virginia" are disclaimed apart from the mark shown. The drawing is lined to show the color red.
FOR AIRCRAFT TOWING TARGETS.
Claims use since May 10, 1945.

Ser. No. 485,907. WILLIAM E. FRITZ, doing business as Tru Styl Golf Co., San Francisco, Calif. Filed July 17, 1945.

MAGIC WAND

FOR GOLF CLUB PUTTER HEADS.
Claims use since July 9, 1945.



Ser. No. 487,325. WALLACE C. HOOPER, doing business as Noys-Toys, Los Angeles, Calif. Filed Aug. 20, 1945.

BABY-ZOOKA

FOR TOY GUNS.
Claims use since Mar. 10, 1945.

Ser. No. 488,318. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed Sept. 12, 1945.

ALADDIN'S LAMP

FOR COIN-CONTROLLED AMUSEMENT APPARATUS.
Claims use since May 14, 1945.

Ser. No. 488,319. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed Sept. 12, 1945.

VOO - DOO

FOR COIN-CONTROLLED AMUSEMENT APPARATUS.
Claims use since May 14, 1945.

Ser. No. 488,320. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed Sept. 12, 1945.

WISHING WELL

FOR COIN-CONTROLLED AMUSEMENT APPARATUS.
Claims use since May 14, 1945.

Ser. No. 488,465. KRUSE & CONNOR, Chicago, Ill. Filed Sept. 14, 1945.

AMUSEMATIC

FOR COIN-CONTROLLED AMUSEMENT GAME APPARATUS.
Claims use since Aug. 26, 1940.

## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 477,407. CONVEYOR REPAIR SERVICE INC., Cleveland, Ohio. Filed Dec. 11, 1944.

POWER-PACK

No claim is made to the word "Power" apart from the mark.
FOR PORTABLE CONVEYORS ADAPTED TO BE CARRIED BY TRUCKS OR LIKE VEHICLES FOR DELIVERY OF COAL OR LIKE MATERIAL.
Claims use since Nov. 27, 1944.

Ser. No. 477,418. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg. Filed Dec. 11, 1944.

IRON FIREMAN
VELOCITOOL

FOR RIVET WORKING TOOLS, DRILLS, CABLE SPLICING PRESSES AND CABLE CUTTING TOOLS ACTIVATED BY EXPLOSION PROPELLED PROJECTILES.
Claims use since Sept. 30, 1944.

Ser. No. 478,479. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Jan. 10, 1945.

Versatal

FOR SPRAYERS FOR PAINTS, MASTICS, AND SIMILAR MATERIALS.
Claims use since July 21, 1944.

Ser. No. 481,987. GEROTOR MAY CORPORATION, Baltimore, Md. Filed Apr. 11, 1945.

GEROTOR

No claim is made to the exclusive use of the words "Air and Hydraulic Devices" apart from the mark.
FOR GEARS FOR USE IN FLUID PUMPS AND OTHER MECHANICAL CONSTRUCTIONS.
Claims use since Sept. 1, 1944.

Ser. No. 484,373. THE SPENCER TURBINE COMPANY, Hartford, Conn. Filed June 9, 1945.

SUMP-VAC

No claim is made to the word "Sump" except in connection with the mark.
FOR MACHINES FOR CLEANING THE SUMP OF METAL WORKING MACHINES.
Claims use since the early part of April 1944.

Ser. No. 484,471. THE VICTOR TOOL COMPANY, Reading, Pa. Filed June 12, 1945.



No claim is made to the outline representation of the cutting implement apart from the mark shown, but applicant does not waive any common law rights that it may have in the mark.

FOR EDGE CUTTING IMPLEMENTS OF THE MACHETE TYPE USED FOR CUTTING WOOD, SAPLINGS, BRIARS, BRUSH, AND THE LIKE.

Claims use since January 1935.

---

Ser. No. 484,482. COSA CORPORATION, New York, N. Y. Filed June 13, 1945.

COSA

FOR MACHINE TOOLS—NAMELY, FOR TURRET LATHES, TOOL MAKERS LATHES, BURNISHING MACHINES, BENCH LATHES, MILLING MACHINES, DRILLING MACHINES, BENCH GRINDING MACHINES, UNIVERSAL GRINDING MACHINES, GEAR HOBBING MACHINES, VERTICAL AUTOMATIC LATHES, PROFILE GRINDING MACHINE AND TOOL GRINDERS.

Claims use since December 1940.

---

Ser. No. 484,627. GENERAL ENGINEERING AND MANUFACTURING COMPANY, St. Louis, Mo. Filed June 16, 1945.

LUBRIGARD

FOR METAL WORKING MACHINERY—NAMELY, SHAPERS AND PARTS THEREOF AND ATTACHMENTS THERETO.

Claims use since Jan. 31, 1942.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 471,784. "AUTOMATIC" SPRINKLER COMPANY OF AMERICA, Youngstown, Ohio. Filed June 29, 1944.

LIGHTNING HIGH SPEED

No claim is made to the words "High Speed" apart from the mark.

FOR HEAT ACTUATED THERMOSTATS AND SPRINKLER SYSTEM CONTROL THERMOSTATS WHICH ARE PNEUMATIC AND/OR ELECTRIC.

Claims use since Jan. 15, 1943.

---

Ser. No. 486,068. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed July 20, 1945.

METROPEDIAN

FOR APPLIANCE TO MEASURE THE FOOT FOR LENGTH AND WIDTH AND TO INDICATE THE PROPER SIZE AND WIDTH OF SHOE.

Claims use since May 14, 1945.

---

Ser. No. 487,332. NEW ENGLAND CARBIDE TOOL CO., INC., Cambridge, Mass. Filed Aug. 20, 1945.

Baramic

FOR MORTARS AND PESTLES.

Claims use since June 19, 1945.

---

Ser. No. 487,387. THE RECIPROCAL TRADE CORPORATION, New York, N. Y. Filed Aug. 21, 1945.

ATOMIC

FOR CAMERAS.

Claims use since Aug. 16, 1945.

## CLASS 30

### CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 486,278. SANTA ANITA POTTERIES, Los Angeles, Calif. Filed July 25, 1945.

Santa Anita

FOR POTTERY CONSISTING OF CUPS, SAUCERS, PLATES, BOWLS, DISHES, TEA AND COFFEE POTS, CASSEROLES AND SALAD SETS; AND DINNERWARE CONSISTING OF CUPS, SAUCERS, PLATES, BOWLS, DISHES, TEA AND COFFEE POTS, CASSEROLES AND SALAD SETS ALL OF WHICH DINNERWARE IS MADE SUBSTANTIALLY OF EARTH OR CLAY.

Claims use since July 11, 1941.



## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 485,607. SPRING-AIR COMPANY, Holland, Mich. Filed July 9, 1945.

Stardust

FOR MATTRESSES AND BOX SPRINGS.

Claims use since May 10, 1945.

---

Ser. No. 485,609. SPRING-AIR COMPANY, Holland, Mich. Filed July 9, 1945.

Long-Fellow

Applicant disclaims the use of the word "Long" apart from the mark as shown.

FOR MATTRESSES AND BOX SPRINGS.

Claims use since May 10, 1945.

---

Ser. No. 485,610. SPRING-AIR COMPANY, Holland, Mich. Filed July 9, 1945.

CAREER

FOR MATTRESSES AND BOX SPRINGS.

Claims use since May 10, 1945.

---

Ser. No. 485,612. SPRING-AIR COMPANY, Holland, Mich. Filed July 9, 1945.

'400'

FOR MATTRESSES AND BOX SPRINGS.

Claims use since May 10, 1945.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 485,816. ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed July 14, 1945.

ROLLALITE

FOR PYROPHORIC CIGAR AND CIGARETTE LIGHTERS.

Claims use since Apr. 14, 1939.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 482,644. RESISTOFLEX CORPORATION, Belleville, N. J. Filed Apr. 26, 1945.

RESISTOFLEX

FOR FRICTION POWER TRANSMISSION RINGS, FLEXIBLE TUBES, HOSE, HOSE LENGTHS WITH COUPLING MEMBERS ATTACHED TO THEIR ENDS, SHEETS, FILMS, GASKETS, WASHERS AND PACKING MADE IN WHOLE OR IN PART OF FLEXIBLE PLASTIC MATERIALS FOR USE IN THE CONVEYING, HANDLING, AND STORING OF OILS, FLUID FUELS, AND ORGANIC SOLVENTS.

Claims use since Dec. 6, 1944.

---

Ser. No. 485,687. INGERSOLL-RAND COMPANY, Phillipsburg, N. J., and New York, N. Y. Filed July 11, 1945.

HAMMER

FOR HOSE COMPOSED OF RUBBER AND FABRIC.

Claims use since Apr. 1, 1923.

---

Ser. No. 486,304. INGERSOLL-RAND COMPANY, Phillipsburg, N. J., and New York, N. Y. Filed July 26, 1945.

RUFFIAN

FOR HOSE COMPOSED OF RUBBER AND FABRIC.

Claims use since April 1923.

---

Ser. No. 486,856. THE GATES RUBBER COMPANY, Denver, Colo. Filed Aug. 7, 1945.

TR

FOR V-BELTS FOR THE TRANSMISSION OF POWER.

Claims use since May 15, 1945.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 479,432. LESTER C. GREEN, doing business as Stationers R S Service, Seattle, Wash. Filed Feb. 5, 1945.

**Markmaster**

FOR FOUNTAIN MARKING PENCILS.
Claims use since Sept. 15, 1944.

---

Ser. No. 484,094. CLARENCE LESTER HORN, New York, N. Y. Filed June 2, 1945.

DURARECORD

FOR PAPER MATERIAL IN THE FORM OF SHEETS USED, FOR EXAMPLE, IN LOOSE LEAF BOOKS, ALSO FOR WRITING PAPER AND FOR WRAPPING PAPER.
Claims use since May 21, 1945.

---

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 481,007. JOE BIANCHINO, Kansas City, Mo. Filed Mar. 17, 1945.



The portrait appearing on the drawing is that of the applicant.
FOR SHEET MUSIC AND MUSICAL INSTRUCTION BOOKS.
Claims use since June 1944.

---

Ser. No. 481,103. DALE NEWS, INC., Lily Dale, N. Y. Filed Mar. 20, 1945.




The word "Psychic" is disclaimed apart from the mark shown.
FOR SEMI-MONTHLY RELIGIOUS PUBLICATION.
Claims use since September 1938.

Ser. No. 481,343. THE STECK COMPANY, Austin, Tex. Filed Mar. 26, 1945.

**AEROLOG**

FOR DIRECTORY, ISSUED ANNUALLY, OF AIRCRAFT ENGINE AND PROPELLER PARTS FOR THE AIRCRAFT INDUSTRY, PRICING GUIDE FOR USED AIRCRAFT AND PARTS AND AIRCRAFT SERVICE MANUALS.
Claims use since Feb. 27, 1945.

---

Ser. No. 485,963. REPRODUCTA, INC., New York, N. Y. Filed July 18, 1945.

Cheerio Notes

The word "Notes" is disclaimed apart from the mark.
FOR GREETING CARDS.
Claims use since Mar. 1, 1944.

---

Ser. No. 486,023. BANTAM BOOKS, INC., New York, N. Y. Filed July 20, 1945.

**BANTAM BOOKS**

No claim is made to the exclusive use of the word "Books" apart from the mark as shown.
FOR PRINTED BOOKS.
Claims use since July 17, 1945.

---

Ser. No. 486,990. HEARST MAGAZINES INC., New York, Filed Aug. 10, 1945.

Junior BAZAAR

FOR MAGAZINE, PUBLISHED ANNUALLY AND AT OTHER INTERVALS DEVOTED PRIMARILY TO FEMININE FASHIONS.
Claims use since on or about Aug. 13, 1943.

---

Ser. No. 487,573. SAMUEL R. M. ORUM, Philadelphia, Pa. Filed Aug. 25, 1945.

CHIPS *and* SAVINGS

FOR PERIODICAL IN THE NATURE OF A HOUSE ORGAN GENERALLY DESCRIPTIVE OF TOOLS AND MACHINERY.
Claims use since March 1944.



Ser. No. 487,597. JOHN ROBERT DE HAVEN, Minneapolis, Minn. Filed Aug. 27, 1945.

Bob DeHaven says HOWDY DO

The words "Bob De Haven" are disclaimed apart from the mark.
FOR COLUMN PUBLISHED PERIODICALLY IN NEWSPAPERS, GIVING NEWS OF INTEREST TO THE GENERAL PUBLIC.
Claims use since Oct. 16, 1944.

---

## CLASS 39

### CLOTHING

Ser. No. 480,532. SPORT PRODUCTS, INC., Cincinnati, Ohio. Filed Mar. 5, 1945.

Craig Wood

The mark "Craig Wood" shown in the drawing is the facsimile signature of Craig Wood, and consent given.
FOR MEN'S AND BOYS' SPORT SHIRTS, SPORT JACKETS, KNITTED OUTER SHIRTS, SWEATERS, RAINCOATS, RAIN JACKETS, HATS, CAPS, NECKTIES, CRAVATS, SCARFS, GARMENT BELTS; AND WOMEN'S AND GIRLS' SPORT JACKETS, RAINCOATS, AND RAIN JACKETS.
Claims use since Jan. 30, 1945.

---

Ser. No. 484,031. PHOENIX HOSIERY COMPANY, Milwaukee, Wis. Filed May 31, 1945.




FOR HOSIERY.
Claims use since Apr. 1, 1944.

---

Ser. No. 485,684. HEARN DEPARTMENT STORES, INC., New York, N. Y. Filed July 11, 1945.

Bandbox

FOR LADIES' HANDKERCHIEFS.
Claims use since May 25, 1945.

Ser. No. 485,727. HARRY GLUCKSBERG, New York, N. Y. Filed July 12, 1945.




The drawing is lined for shading only.
FOR UNIFORM HATS.
Claims use since May 28, 1945.

---

Ser. No. 485,778. KIRK AND WEIDEMAN, Los Angeles, Calif. Filed July 13, 1945.

**WEEJAMA**

FOR CHILDREN'S AND INFANTS' SLEEPING GARMENTS—NAMELY, SLEEPERS, PAJAMAS, AND NIGHTGOWNS.
Claims use since Apr. 11, 1945.

---

Ser. No. 486,006. D. B. ROSENBLATT, INCORPORATED, Minneapolis, Minn. Filed July 19, 1945.

**LUXTRA-VELOUR**

The word "Velour" is disclaimed apart from the mark as shown.
FOR MEN'S AND WOMEN'S OVERCOATS.
Claims use since June 15, 1945.

---

Ser. No. 486,237. ALLEN-SQUIRE CO., Spencer, Mass. Filed July 25, 1945.

RUGGARDS

FOR LEATHER AND RUBBER SHOES MADE FROM VARIOUS COMBINATIONS OF LEATHER AND RUBBER.
Claims use since June 22, 1945.

---

Ser. No. 486,395. THE SUPERB GLOVE COMPANY, Johnstown, N. Y. Filed July 27, 1945.

**LUGGER**

FOR MEN'S, WOMEN'S AND CHILDREN'S GLOVES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Jan. 11, 1944.

Ser. No. 486,682. TRIUMPH HOSIERY MILLS, INC., New York, N. Y. Filed Aug. 2, 1945.

"Royalastic"

FOR HOSIERY.
Claims use since July 1, 1945.

## CLASS 41

### CANES, PARASOLS, AND UMBRELLAS

Ser. No. 488,259. HERMAN EICHENBAUM, New York, N. Y. Filed Sept. 11, 1945.

Rainfair

FOR UMBRELLAS AND PARASOLS.
Claims use since December 1938.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 476,414. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed Nov. 13, 1944.

CARILLON

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, AND PROTEIN FIBRES.
Claims use since Oct. 23, 1940.

Ser. No. 476,487. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed Nov. 15, 1944.

PLATONE

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, AND PROTEIN FIBRES.
Claims use since Oct. 1, 1940.

Ser. No. 487,397. PRINCETON SILK CO., New York, N. Y. Filed Aug. 17, 1945.



FOR PIECE GOODS—TO WIT, RAYON PIECE GOODS.
Claims use since Aug. 1, 1943.

Ser. No. 487,540. N. WISHROW & RAPHAELS INC., New York, N. Y. Filed Aug. 24, 1945.



The word "Fabric" is disclaimed apart from the mark as shown. The linings are for shading purposes only.
FOR RAYON PIECE GOODS.
Claims use since March 1945.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 480,937. HARRIETTE E. WEIR, doing business as harriette e weir, St. Louis, Mo. Filed Mar. 14, 1945.

bang-er

FOR MASSAGE DEVICES.
Claims use since 1943.



Ser. No. 486,344. CHARLES E. WHITE, Salamanca, N. Y. Filed July 26, 1945.

DROP-I-MIZER

Without waiver of common law rights no registration right is claimed in the word "Drop" apart from the mark.
FOR APPLICATORS FOR ADMINISTERING LIQUID MEDICATION IN THE FORM OF A MIST OR SPRAY TO THE NOSE AND THROAT.
Claims use since July 16, 1945.

Ser. No. 487,054. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Aug. 11, 1945.

ELASTIBAND

FOR ADHESIVE BANDAGES.
Claims use since Jan. 3, 1945.

## CLASS 45

### BEVERAGES, NONALCOHOLIC

Ser. No. 479,683. LYONS-MAGNUS, INC., San Francisco, Calif. Filed Feb. 10, 1945.

RICOCO

FOR CHOCOLATE SYRUPS FOR BEVERAGES IN THE NATURE OF SOFT DRINKS.
Claims use since 1935.

Ser. No. 486,198. WILLIAM L. GAEBL, Towson, Md. Filed July 24, 1945.

AQUA-FLO

The word "Aqua" is disclaimed apart from the mark.
FOR NATURAL MINERAL WATER.
Claims use since June 6, 1945.

Ser. No. 486,803. OLD FASHION MA'S ROOT BEER BOTTLING COMPANY, Wilkes-Barre, Pa. Filed Aug. 6, 1945.

Ma's Maid

FOR NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since July 21, 1945.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 478,900. CANDYMASTERS INCORPORATED, Minneapolis, Minn. Filed Nov. 27, 1944.

Stardust

FOR CANDY BARS.
Claims use since Aug. 25, 1941.

Ser. No. 478,856. E. CHERRY SONS & CO., Philadelphia, Pa. Filed Jan. 22, 1945.

Cherrydale

FOR CANDIES, SALTED NUTS, AND GLACE FRUITS AND HONEY.
Claims use since June 1943.

Ser. No. 480,805. ST. REGIS RESTAURANT CORPORATION, New Orleans, La. Filed Mar. 10, 1945.

SHRIMP in SHORTS



The word "Shrimp" is disclaimed apart from the mark.
FOR SHRIMP, FRIED OR COOKED, AND LUNCHES INCLUDING SHRIMP, POTATOES, AND BREAD.
Claims use since Jan. 8, 1945.

Ser. No. 481,942. THE CAPITAL CITY PRODUCTS CO., Columbus, Ohio. Filed Apr. 10, 1945.

"NEW TOP"

FOR HYDROGENATED VEGETABLE SHORTENING.
Claims use since September 1943.

Ser. No. 482,319. J. T. GIBBONS, INC., New Orleans, La. Filed Apr. 19, 1945.

GIBBMILK

FOR DAIRY FEED.
Claims use since 1925.

Ser. No. 484,637. RE-DAN PACKING COMPANY, Ozone Park, New York, N. Y. Filed June 16, 1945.

CADET



FOR COOKED AND PREPARED DOG FOOD.
Claims use since Jan. 1, 1944.

---

Ser. No. 485,640. MATZGER CHOCOLATE COMPANY, San Francisco, Calif. Filed July 10, 1945.

SUMORA

FOR CANDY.
Claims use since September 1937.

---

Ser. No. 486,188. CHARLES M. ZILEN, doing business as Zilen Citrus Co., Riverside, Calif. Filed July 23, 1945.

Riverside Queen

Applicant is owner of Reg. No. 392,553, dated Dec. 30, 1941. No claim is made to the word "Riverside" apart from the mark as shown.

FOR FRESH CITRUS FRUITS.
Claims use since Aug. 17, 1941.

Ser. No. 486,266. MARTIN W. MARTIN, Bell Harbour, Long Island, N. Y. Filed July 25, 1945.

FROSTARD

FOR FROZEN CUSTARD, WATER ICES, ICE CREAM, AND FROZEN DESSERTS.
Claims use since May 15, 1945.

---

Ser. No. 487,384. PRICE CANDY COMPANY, Kansas City, Mo. Filed Aug. 21, 1945.

Annaclairs

FOR CANDY.
Claims use since Mar. 2, 1942.

---

Ser. No. 488,008. AMERICAN DIETAIDS COMPANY, INC., Yonkers, N. Y. Filed Sept. 6, 1945.

VEGEMILK

FOR SOYBEAN MILK WITH ADDED VITAMINS AND MINERALS.
Claims use since July 26, 1944.

---

Ser. No. 488,448. HASKELL D. BOYER, Fort Worth, Tex. Filed Sept. 14, 1945.

TEXBURGER

FOR PREPARED FOODS—NAMELY, GROUND MEAT SANDWICHES.
Claims use since June 1, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

## DECEMBER 11, 1945

418,189. RUM. WAKEM & MCLAUGHLIN, INCORPORATED, Chicago, Ill.
Filed August 12, 1943. Serial No. 462,694. PUBLISHED NOVEMBER 9, 1943. Class 49.

418,190. BEER. THE OLD READING BREWERY INC., Reading, Pa.
Filed September 9, 1943. Serial No. 463,302. PUBLISHED SEPTEMBER 11, 1945. Class 48.

418,191. CARBONATED, NON-ALCOHOLIC, NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS. THE SEVEN UP COMPANY, St. Louis, Mo.
Filed December 6, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 465,582. PUBLISHED SEPTEMBER 11, 1945. Class 45.

418,192. WRITING, PRINTING, AND PAPETERIE PAPERS. EASTERN CORPORATION, Brewer, Maine.
Filed March 20, 1944. Serial No. 468,443. PUBLISHED SEPTEMBER 25, 1945. Class 37.

418,193. MEDICINAL MINERAL OIL. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed April 20, 1944. Serial No. 469,503. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,194. NUTRITIONAL ADJUNCT FOR YOUNG CALVES, COMPOSED OF FISH LIVER OIL, ACTIVATED ERGOSTEROL, NIACIN, AND PROBABLY ASCORBIC ACID, ETC. FRANK J. HOLT, doing business as Nutrition Products Company, Aurora, Ill.
Filed May 15, 1944. Serial No. 470,266. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,195. YEAST AND IRON COMPOUND, NATURAL FORTIFIED VITAMIN B COMPLEX WITH LIVER AND IRON, ELIXIR VITAMIN B COMPLEX AND VITAMIN A AND D CONCENTRATE TABLETS. ELARS PRODUCTS, INC., also trading as Elgyn Products, Richmond, Va.
Filed June 21, 1944, Serial No. 471,473. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,196. DELUGE SPRINKLER UNITS, PIPING, VALVES, AND SPRINKLERS THEREFOR. "AUTOMATIC" SPRINKLER COMPANY OF AMERICA, Youngstown, Ohio.
Filed June 29, 1944. Serial No. 471,782. PUBLISHED OCTOBER 2, 1945. Class 13.

418,197. CHOLAGOGUE EVACUANT. SCHERING & GLATZ, INC., New York, N. Y.
Filed July 6, 1944. Serial No. 471,959. PUBLISHED OCTOBER 24, 1944. Class 6.

418,198. HIGHLY REFINED MONOSACCHARIDE DERIVED BY HYDROLYSIS OF POLYMERIC CARBOHYDRATE MATERIALS USED IN FERMENTATION AND CHEMICAL MANUFACTURING PROCESSES AS A RAW MATERIAL IN THE PRODUCTION OF ALCOHOL, ORGANIC ACIDS, AND POLYHYDROXY COMPOUNDS. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed July 20, 1944. Serial No. 472,415. PUBLISHED OCTOBER 2, 1945. Class 1.

418,199. PHARMACEUTICAL PREPARATIONS FOR THE RELIEF OF NERVE PAINS, HEADACHE, TOOTHACHE, RHEUMATIC AND OTHER PAINS, INFLUENZA, ETC. BRITISH MEDICA LABORATORIES LIMITED, Bournemouth, England.
Filed August 5, 1944. Serial No. 472,972. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,200. PERFUMES AND TOILET WATER. THE GUERLAIN PERFUMERY CORPORATION, Wilmington, Del., and New York, N. Y.
Filed August 17, 1944. Serial No. 473,371. PUBLISHED JUNE 26, 1945. Class 6.

418,201. PREPARATION FOR THE TREATMENT OF ACNE AND FACE PIMPLES, ATHLETE'S FOOT, BOILS, BURNS, ITCH, IMPETIGO, ECZEMA, AND PSORIASIS. WALTER S. MARSHALL, doing business as V. J. Chemical Company, Raleigh, N. C.
Filed August 25, 1944, Serial No. 473,609. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,202. COMPOSITION CONTAINING A SOLUBLE SALT FOR PREVENTING ANHYDRITE OR GYPSUM CONTAMINATION OF WELL DRILLING FLUIDS. NATIONAL LEAD COMPANY, Sayreville N. J., and New York, N. Y.
Filed September 8, 1944. Serial No. 473,998. PUBLISHED SEPTEMBER 25, 1945. Class 1.

418,203. INSIGNIA AND EMBLEMS MADE FROM STERLING SILVER AND GOLD. AMERICAN INSIGNA COMPANY, New York, N. Y.
Filed October 3, 1944. Serial No. 474,845. PUBLISHED SEPTEMBER 25, 1945. Class 28.

418,204. PERFUMERY, PREPARATIONS FOR TREATMENT OF THE HAIR, INCLUDING SHAMPOO PREPARATIONS, HAIR LOTIONS, HAIR CREAM, PREPARATIONS FOR DRYING THE HAIR, FACE POWDERS, FACE CREAMS, FACE AND SKIN LOTIONS, TALCUM POWDER, DENTIFRICES, LIPSTICK, PERMANENT WAVING SOLUTIONS, NAIL POLISH AND REMOVER. LENNARD, LEE-NARVILL & CO. LIMITED, Yorkshire, England.
Filed October 7, 1944. Serial No. 475,061. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,205. PRECIOUS STONES FOR ORNAMENTAL PURPOSES AND MOUNTINGS THEREFOR. WALDRON & COMPANY, INC., Philadelphia, Pa.
Filed October 14, 1944. Serial No. 475,349. PUBLISHED JULY 3, 1945. Class 23.

418,206. PAPER CARDBOARD FOLDERS USED TO ENCLOSE AND HOLD PACKAGES OF CIGARETTES. MARY MUFFET, INC., St. Louis, Mo.
Filed October 18, 1944. Serial No. 475,447. PUBLISHED SEPTEMBER 25, 1945. Class 37.

418,207. INSECTICIDE. EDWARD C. PALMER, doing business as Garden Products Company, St. Louis, Mo.
Filed October 21, 1944. Serial No. 475,584. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,208. JIGS, FIXTURES, CHUCKS, VISES, COLLETS, AND WORK HOLDERS FOR USE IN MACHINING OPERATIONS. MONARCH GOVERNOR COMPANY, Detroit, Mich.
Filed November 3, 1944. Serial No. 476,072. PUBLISHED SEPTEMBER 25, 1945. Class 23.

418,209. MEN'S AND BOYS' SHIRTS. ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y.
Filed November 6, 1944. Serial No. 476,129. PUBLISHED OCTOBER 2, 1945. Class 39.

418,210. CHAMOIS AND SPONGES. FREDERICK V. FOWLER, doing business as Stanton Supply Co., Boston, Mass.
Filed November 14, 1944. Serial No. 476,428. PUBLISHED OCTOBER 2, 1945. Class 1.

418,211. WATER-ABSORBING FIBRE MATS FOR SUPPORTING AND MOISTENING POTTED PLANTS. BIRD & SON, INC., East Walpole, Mass.
Filed November 30, 1944. Serial No. 477,055. PUBLISHED SEPTEMBER 18, 1945. Class 50.

418,212. MILLING CUTTERS. LOWELL & GRAYSON, Monrovia, Calif.
Filed December 6, 1944. Serial No. 477,279. PUBLISHED OCTOBER 2, 1945. Class 23.

418,213. CHEMICAL PREPARATION FOR REPAIRING CRACKED MOTOR BLOCKS, CYLINDER HEADS, VALVE PORTS, PUMP HOUSINGS, BEARING SYSTEMS, AND MECHANICAL WELDING. METALLIZING COMPANY OF AMERICA, Chicago, Ill.
Filed December 12, 1944. Serial No. 477,473. PUBLISHED APRIL 17, 1945. Class 6.

418,214. LIPSTICK. CAMPANA CORPORATION, Batavia, Ill.
Filed December 19, 1944. Serial No. 477,732. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,215. OIL WELL DRILLING BITS, WRENCHES, PIPE THREADERS AND TRIMMERS, NON-ELECTRIC SIRENS, EXHAUST AND AIR WHISTLES AND APPLIANCES THEREFOR. FEDERAL ELECTRIC COMPANY, INC., Chicago, Ill.
Filed December 26, 1944. Serial No. 477,924. PUBLISHED SEPTEMBER 25, 1945. Class 23.

418,216. MOLDED THERMOPLASTIC WHISTLES. PLASTIC ENGINEERING, INC., Cleveland, Ohio.
Filed December 30, 1944. Serial No. 478,083. PUBLISHED OCTOBER 2, 1945. Class 22.

418,217. LIQUID PREPARATION FOR RENDERING FABRICS REPELLANT OR RESISTANT TO WATER, BRINE, STAINS, AND MOTHS. JOHN M. CAIN, Hartford, Conn., and West Palm Beach, Fla.
Filed January 3, 1945. Serial No. 478,174. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,218. CARBON ELECTRODES AND GRAPHITE ELECTRODES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed January 19, 1945. Serial No. 478,788. PUBLISHED OCTOBER 2, 1945. Class 21.

418,219. CHEMICAL COMPOSITION TO REMOVE SOOT AND OTHER FUEL RESIDUE ON FIRE SURFACES. STANDARD CHEMICAL COMPANY, Natick, Mass.
Filed January 26, 1945. Serial No. 479,053. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,220. BATH OIL. MEM COMPANY, New York, N. Y., assignor to Mem Company, New York, N. Y., a copartnership composed of Paul M. E. Mayer, Renee A. Mayer, and Stephen Herbert Mayer.
Filed February 3, 1945. Serial No. 479,393. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,221. DRESSES FOR THE USE OF WOMEN, MISSES, AND GIRLS. JAMES CRAIG—CALIFORNIA, Los Angeles, Calif.
Filed February 5, 1945. Serial No. 479,424. PUBLISHED OCTOBER 2, 1945. Class 39.

418,222. BRUSHES USED AS MACHINE ACCESSORIES, BRUSHES MADE FROM WIRE FOR MOUNTING UPON SHAFTING, ROTARY BRUSHES FOR POLISHING AND CLEANING, AND SECTIONS AND PARTS OF SUCH BRUSHES. THE OSBORN MANUFACTURING COMPANY, Cleveland, Ohio.
Filed February 5, 1945. Serial No. 479,440. PUBLISHED SEPTEMBER 25, 1945. Class 23.

418,223. COLOGNE, AFTER SHAVING LOTION, HAIR LOTION, TALCUM POWDER, BAY RUM, PERSONAL USE DEODORANT, FOOT POWDER, INSECT REPELLANT, SUN-SCREEN LOTION. JOHN HUDSON MOORE, INC., New York, N. Y.
Filed February 9, 1945. Serial No. 479,636. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,224. PERFUMES, TOILET WATERS, SACHET POWDERS, TALCUM POWDERS, DUSTING POWDERS, BATH OILS, BATH CRYSTALS, FACIAL CREAMS, ETC. LE SONIER, INC., Boston, Mass.
Filed February 16, 1945. Serial No. 479,884. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,225. PERFUME, TOILET WATER, TALCUM POWDER, BATH POWDER, FACE POWDER, ROUGE AND LIPSTICK. CLARENCE H. CHAMBERS, doing business as Maupassant, Brooklyn, N. Y.
Filed February 20, 1945. Serial No. 480,008. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,226. GAS CARBON BLACK. WITCO CHEMICAL COMPANY, Chicago, Ill.
Filed February 26, 1945. Serial No. 480,263. PUBLISHED OCTOBER 2, 1945. Class 1.

418,227. GAS CARBON BLACK. WITCO CHEMICAL COMPANY, Chicago, Ill.
Filed February 26, 1945. Serial No. 480,265. PUBLISHED OCTOBER 2, 1945. Class 1.

418,228. COMBINED HANDY INFORMATION AND MEMORANDUM, PRINTED AND DISTRIBUTED AT IRREGULAR INTERVALS. WILLIAM IRVING HAMILTON, INC., New York, N. Y.
Filed March 3, 1945. Serial No. 480,453. PUBLISHED SEPTEMBER 18, 1945. Class 38.

418,229. FRUIT JUICES USED FOR BEVERAGE PURPOSES—NAMELY, GRAPE JUICE, CRANBERRY JUICE COCKTAIL PREPARED WITH STILL OR CARBONATED WATER, ETC. SEEMAN BROTHERS, INC., New York, N. Y.
Filed March 3, 1945. Serial No. 480,474. PUBLISHED SEPTEMBER 18, 1945. Class 45.

418,230. LUBRICATING OILS AND GREASES, GASOLINE, KEROSENE, BENZINE, NAPHTHA CANDLES, MOTOR FLUSHING OIL, AND PENETRATING OIL. OAKES & Co., also doing business as Tru-Test, Chicago, Ill.
Filed March 7, 1945. Serial No. 480,610. PUBLISHED SEPTEMBER 25, 1945. Class 15.

418,231. VITAMIN TABLETS. MCNEIL LABORATORIES, INCORPORATED, Philadelphia, Pa.
Filed March 8, 1945. Serial No. 480,671. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,232. RUM. COMPAÑIA LICORERA AGABAMA, S. A., Habana, Cuba.
Filed March 10, 1945. Serial No. 480,742. PUBLISHED SEPTEMBER 25, 1945. Class 49.

418,233. BATTERIES AND PARTS THEREOF, ELECTRO-PLATING AND ELECTROLYTIC EQUIPMENT INCLUDING ELECTRODES, ELECTRICAL FANS AND ELECTRICAL HEAT EXCHANGERS, ETC. THE DURIRON COMPANY, INC., Dayton, Ohio.
Filed March 10, 1945. Serial No. 480,744. PUBLISHED SEPTEMBER 25, 1945. Class 21.

418,234. CHEWING GUM FORTIFIED WITH PENICILLIN. MAX ADMON, doing business as Pensilagum Co., Brooklyn, N. Y.
Filed March 20, 1945. Serial No. 481,093. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,235. HYPODERMIC SOLUTION CONSISTING OF A COLLOIDAL SOLUTION OF THIAMIN HYDROCHLORIDE, SULPHUR, AND NON-SPECIFIC PROTEIN USED FOR NEURITIS, POLY-NEURITIS, AND SOME FORMS OF ARTHRITIS. JACK J. TARSIO, doing business as Sonoral Laboratories, New York, N. Y.
Filed March 29, 1945. Serial No. 481,497. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,236. ELECTRICAL CONDENSERS AND CAPACITORS. THE CAPACITRON COMPANY, Chicago, Ill.
Filed March 31, 1945. Serial No. 481,571. PUBLISHED SEPTEMBER 25, 1945. Class 21.



418,237. CIGARS. CUEVENTES Y COSSARTA, Habana, Cuba.
Filed April 2, 1945. Serial No. 481,613. PUBLISHED OCTOBER 2, 1945. Class 17.

418,238. CAUSTIC SODA COMPOSITION FOR USE IN INDUSTRIAL BOTTLE WASHING MACHINES. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed April 6, 1945. Serial No. 481,818. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,239. CAUSTIC SODA COMPOSITION FOR USE IN INDUSTRIAL BOTTLE WASHING MACHINES. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed April 6, 1945. Serial No. 481,819. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,240. TOE COVERS. MARJORIE G. RHEINSTROM, Great Neck, N. Y.
Filed April 7, 1945. Serial No. 481,850. PUBLISHED SEPTEMBER 25, 1945. Class 39.

418,241. SHAMPOO AND COMPOUNDS FOR THE TREATMENT FOR REMOVING DANDRUFF AND RELIEVING ITCHY SCALPS. LAWRENCE LABORATORIES, Brooklyn, N. Y.
Filed April 13, 1945. Serial No. 482,108. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,242. COATS, VESTS, PANTS, AND OVERCOATS FOR MEN AND BOYS. FASHION PARK, INC., Rochester, N. Y.
Filed April 14, 1945. Serial No. 482,130. PUBLISHED SEPTEMBER 25, 1945. Class 39.

418,243. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. FASHION PARK, INC., Rochester, N. Y.
Filed April 14, 1945. Serial No. 482,148. PUBLISHED JULY 17, 1945. Class 39.

418,244. APPARATUS FOR PRODUCING HIGH FREQUENCY ELECTRIC CURRENTS AND HIGH FREQUENCY ELECTRIC AND MAGNETIC FIELDS AND APPARATUS, ETC. THE GIRDLER CORPORATION, Louisville, Ky.
Filed April 19, 1945. Serial No. 482,322. PUBLISHED SEPTEMBER 25, 1945. Class 21.

418,245. HAIR TONIC. PAUL EISERLE, Baltimore, Md.
Filed April 20, 1945. Serial No. 482,368. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,246. PERFUMES, TOILET WATERS, AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed April 20, 1945. Serial No. 482,382. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,247. VITAMIN-MINERAL-LIVER COMPOUND. META CINE COMPANY, Chattanooga, Tenn.
Filed April 30, 1945. Serial No. 482,810. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,248. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS THEREFOR. H. FOX & Co., Brooklyn, N. Y.
Filed May 1, 1945. Serial No. 482,836. PUBLISHED SEPTEMBER 11, 1945. Class 45.

419,249. STERLING SILVER KNIVES, FORKS, SPOONS, TRAYS, TEA SETS, GOBLETS, AND SUGAR AND CREAMERS; ALSO FOR THE SAME GOODS IN PLATED WARE. ZELL BROS., Portland, Oreg.
Filed May 1, 1945. Serial No. 482,862. PUBLISHED OCTOBER 2, 1945. Class 28.

418,250. PREPARATION FOR USE IN THE TREATMENT OF SNAKE BITES. GEORGE A. SWEETMAN, Estancia, N. Mex.
Filed May 4, 1945. Serial No. 483,011. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,251. WHISKEY. LE SAGE COMPANY, Dallas, Tex.
Filed May 7, 1945. Serial No. 483,072. PUBLISHED SEPTEMBER 11, 1945. Class 49.

418,252. ANTISEPTIC PREPARATION FOR USE AS A WET DRESSING. C. A. MOSEO COMPANY, Chicago, Ill.
Filed May 7, 1945. Serial No. 483,077. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,253. BATH OIL. PRINCE MATCHABELLI, INC., New York, N. Y.
Filed May 8, 1945. Serial No. 483,116. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,254. CONCENTRATED STERILE SOLUTIONS OF POLYENDOCRINE PROTEINS FOR HYPODERMIC INJECTION USED AS PART OF THE TREATMENT OF PLURIGLANDULAR DEFICIENCIES. THE HARROWER LABORATORY, INC., Glendale, Calif.
Filed May 12, 1945. Serial No. 483,266. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,255. LADIES' AND MISSES' DRESSES. SERGEE RUDOLPH, New York, N. Y.
Filed May 14, 1945. Serial No. 483,348. PUBLISHED OCTOBER 2, 1945. Class 39.

418,256. JEWELRY MADE OF OR ORNAMENTED WITH PRECIOUS OR SEMI-PRECIOUS METAL OR ORNAMENTED WITH IMITATIONS OF PRECIOUS STONES—NAMELY, ROSARIES, COMPACTS, LOCKETS, NECKLACES, ETC. B. HECKER COMPANY, New York, N. Y.
Filed May 15, 1945. Serial No. 483,373. PUBLISHED OCTOBER 2, 1945. Class 28.

418,257. NATURAL BIRTH CONTROL CALENDARS. FREDERIC H. STROH, New York, N. Y.
Filed May 15, 1945. Serial No. 483,380. PUBLISHED SEPTEMBER 25, 1945. Class 38.

418,258. ILLUSTRATED PHOTOGRAPHIC MAGAZINES. KODAK MEXICANA, LTD., Rochester, N. Y., and Mexico City, Mexico.
Filed May 21, 1945. Serial No. 483,624. PUBLISHED SEPTEMBER 25, 1945. Class 38.

418,259. GENERAL ANTISEPTIC AND GERMICIDE AND OINTMENT, FOR CUTS, BURNS, SCALDS, IVY POISON, INSECT BITES, ATHLETE'S FOOT, CHAFING AND PRICKLY HEAT. MEDICINAL PRODUCTS CO., Philadelphia, Pa.
Filed May 22, 1945. Serial No. 483,659. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,260. PERFUMES AND PERFUME PREPARATIONS; TOILET WATERS; FACE, BATH, TALCUM, SACHET AND AFTER-SHAVE POWDERS; ETC. LENTHERIC, INCORPORATED, New York, N. Y.
Filed May 23, 1945. Serial No. 483,689. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,261. LAUNDRY SOUR. CRESCENT CHEMICAL CORPORATION, Philadelphia, Pa.
Filed May 24, 1945. Serial No. 483,716. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,262. HANDKERCHIEFS. JOHN MACKSOUD COMPANY, New York, N. Y.
Filed May 25, 1945. Serial No. 483,777. PUBLISHED SEPTEMBER 25, 1945. Class 39.

418,263. APPARATUS FOR CANDLING, GRADING, AND HANDLING EGGS. OTTO NIEDERER SONS, INC., Titusville, N. J.
Filed May 26, 1945. Serial No. 483,868. PUBLISHED OCTOBER 2, 1945. Class 26.

418,264. TYROTHRICIN PREPARATION FOR USE IN THE TREATMENT OF MASTITIS IN CATTLE. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed May 29, 1945. Serial No. 483,906. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,265. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS, AND CONCENTRATES AND SYRUPS FOR THE MANUFACTURE THEREOF. NEHICK'S STORES, INC., New York, N. Y.
Filed May 29, 1945. Serial No. 483,912. PUBLISHED SEPTEMBER 18, 1945. Class 45.

418,266. COMIC STRIPS. PACIFIC COAST MARINE FIREMEN, OILERS, WATERTENDERS AND WIPERS' ASSOCIATION, San Francisco, Calif.
Filed May 29, 1945. Serial No. 483,916. PUBLISHED SEPTEMBER 18, 1945. Class 38.

418,267. LIVER EXTRACT PRODUCT FOR ADMINISTRATION BY INJECTION. WALLACE LABORATORIES, INC., New Brunswick, N. J.
Filed May 29, 1945. Serial No. 483,945. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,268. KID AND MOROCCO LEATHER. ALLIED KID COMPANY, Boston, Mass.
Filed May 30, 1945. Serial No. 483,950. PUBLISHED OCTOBER 2, 1945. Class 1.

418,269. COLOGNE, DEODORANT, AND AFTER SHAVE LOTION. GARAY TOILETRIES, INC., New York, N. Y.
Filed May 30, 1945. Serial No. 483,968. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,270. BEER. ADAM SCHEIDT BREWING COMPANY, Norristown, Pa.
Filed May 30, 1945. Serial No. 483,987. PUBLISHED SEPTEMBER 18, 1945. Class 48.

418,271. COMIC STRIP. UNITED STATES WAR DEPARTMENT, Washington, D. C.
Filed May 30, 1945, Serial No. 483,998. PUBLISHED SEPTEMBER 18, 1945. Class 38.

418,272. CHEMOTHERAPEUTIC AGENTS OF BACTERICIDAL OR BACTERIOSTATIC ACTIVITY, MORE SPECIFICALLY ANTIBIOTICS OBTAINED FROM ORGANISMS OR BY SYNTHESIS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed May 31, 1945. Serial No. 484,004. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,273. FACE POWDER, LIPSTICK, HAND CREAM, PERFUME, AND BRILLIANTINE. CONSOLIDATED COSMETICS, Chicago, Ill.
Filed May 31, 1945. Serial No. 484,013. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,274. COMPOSITION CONSISTING OF CONCENTRATED ESSENTIAL OILS, CHEMICALS, AND SOLVENTS FOR DILUTION WITH ISOPROPYL ALCOHOL TO BE USED AS AN AIR PURIFIER IN THE FORM OF A SPRAY. LEO MANN, Boston, Mass.
Filed June 1, 1945. Serial No. 484,054. PUBLISHED SEPTEMBER 18, 1945. Class 6.

418,275. WATCH MOVEMENTS AND WRIST AND POCKET WATCHES. JEAN R. GRAEF, INC., New York, N. Y.
Filed June 4, 1945. Serial No. 484,126. PUBLISHED SEPTEMBER 25, 1945. Class 27.

418,276. PREPARATION FOR USE IN THE TREATMENT OF PYORRHEA (ALVEOLARIS). T. G. W. JONES, doing business as T. G. W. Jones Sons, Los Angeles, Calif.
Filed June 5, 1945. Serial No. 484,171. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,277. HYDROCARBON RESINS COMPOSED OF POLYMERS OF STYRENE, SUBSTITUTED STYRENE, AND STYRENE HOMOLOGUES. PENNSYLVANIA INDUSTRIAL CHEMICAL CORPORATION, Clairton, Pa.
Filed June 5, 1945. Serial No. 484,178. PUBLISHED SEPTEMBER 25, 1945. Class 1.

418,278. BRACELETS AND OTHER ARTICLES OF JEWELRY FOR PERSONAL ADORNMENT, MADE IN WHOLE OR IN PART OF PRECIOUS METALS, NOT INCLUDING WATCHES. THE RICHTER & PHILLIPS CO., doing business as Consumers Merchandise Mart, Cincinnati, Ohio.
Filed June 5, 1945. Serial No. 484,182. PUBLISHED OCTOBER 2, 1945. Class 28.

418,279. WATCHES AND CLOCKS. COLUMBIA EASTERN CORPORATION, New York, N. Y.
Filed June 6, 1945. Serial No. 484,192. PUBLISHED SEPTEMBER 25, 1945. Class 27.

418,280. WATCHES AND CLOCKS. COLUMBIA EASTERN CORPORATION, New York, N. Y.
Filed June 6, 1945. Serial No. 484,193. PUBLISHED SEPTEMBER 25, 1945. Class 27.

418,281. SMOKING TOBACCO. LANE TOBACCO, LTD., New York, N. Y.
Filed June 6, 1945. Serial No. 484,205. PUBLISHED SEPTEMBER 25, 1945. Class 17.

418,282. WOMEN'S, MISSES', AND CHILDREN'S UNDERWEAR. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed June 7, 1945. Serial No. 484,281. PUBLISHED SEPTEMBER 25, 1945. Class 39.

418,283. DISPERSING AND FLOCCULATING CHEMICAL FOR SOLIDS IN AN AQUEOUS MEDIUM. GEIGY COMPANY, INC., New York, N. Y.
Filed June 9, 1945. Serial No. 484,342. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,284. NERVE SEDATIVE AND ANTISPASMODIC. CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed June 11, 1945. Serial No. 484,391. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,285. GROUND NATURAL ROCK FOR USE AS A REFRACTORY MATERIAL FOR LINING ELECTRIC FURNACES, CUPELOS, AND INDUSTRIAL FURNACES. NATIONAL FOUNDRY SAND CO., Detroit, Mich.
Filed June 11, 1945. Serial No. 484,420. PUBLISHED OCTOBER 2, 1945. Class 1.

418,286. MEN'S DRESS AND SPORT SHIRTS. WILSON BROTHERS, Chicago, Ill.
Filed June 11, 1945. Serial No. 484,434. PUBLISHED SEPTEMBER 25, 1945. Class 39.

418,287. TOILET POWDER FOR USE AS A DEODORANT. WILLIAM P. MCCONNELL, doing business as McConnell Product Co., Washington, D. C.
Filed June 14, 1945, Serial No. 484,537. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,288. PREPARATION FOR EXTERMINATING RATS AND MICE. DIXIE DISINFECTING CO., Dallas, Tex.
Filed June 13, 1945. Serial No. 484,486. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,289. MINED CALCIUM STONE, A CRUDE MINERAL. HARRY T. CAMPBELL SONS' CORP., Towson, Md.
Filed June 16, 1945. Serial No. 484,614. PUBLISHED SEPTEMBER 25, 1945. Class 1.

418,290. SENSITIZED PHOTOGRAPHIC FILMS. EDWIN ELSTON, Los Angeles, Calif.
Filed June 18, 1945. Serial No. 484,671. PUBLISHED OCTOBER 2, 1945. Class 26.

418,291. MEN'S AND BOYS' DRESS AND SPORT SHIRTS. ROSUEN SPORTSWEAR CORP., New York, N. Y.
Filed June 18, 1945. Serial No. 484,705. PUBLISHED OCTOBER 2, 1945. Class 39.

418,292. MEN'S AND BOYS' DRESS AND SPORT SHIRTS. ROTARY SHIRT CO., INC., New York, N. Y.
Filed June 18, 1945. Serial No. 484,707. PUBLISHED OCTOBER 2, 1945. Class 39.

418,293. HYDROLYZED PROTEIN CONTAINING IRON SALTS FOR USE IN PRODUCING FIRE EXTINGUISHING MECHANICAL FOAM. THE MEARL CORPORATION, New York, N. Y.
Filed June 20, 1945. Serial No. 484,793. PUBLISHED SEPTEMBER 25, 1945. Class 6.



418,294. ADHESIVE CEMENT. MERRITT PRODUCTS COMPANY, Cleveland, Ohio.
Filed June 20, 1945. Serial No. 484,794. PUBLISHED OCTOBER 2, 1945. Class 5.

418,295. HISTIDINE ASCORBIC ACID AMPULE INJECTION FOR USE IN THE TREATMENT OF GASTRIC ULCERS. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y.
Filed June 20, 1945. Serial No. 484,812. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,296. MEN'S, BOYS', AND CHILDREN'S UNDERWEAR AND KNITTED OUTERWEAR—NAMELY, SWEATERS, INCLUDING PULLOVERS AND BUTTONED SWEATERS; JACKETS AND SPORT COATS. ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y.
Filed June 21, 1945. Serial No. 484,817. PUBLISHED OCTOBER 2, 1945. Class 39.

418,297. CRYSTALS AND CRYSTAL UNITS FOR ELECTRONIC USE. CRYSTAL RESEARCH LABORATORIES, INCORPORATED, Hartford, Conn.
Filed June 22, 1945. Serial No. 484,883. PUBLISHED OCTOBER 2, 1945. Class 21.

418,298. OUTBOARD MOTORS. THE GOODYEAR TIRE & RUBBER COMPANY, INC., Akron, Ohio.
Filed June 22, 1945. Serial No. 484,891. PUBLISHED OCTOBER 2, 1945. Class 23.

418,299. PERIODICAL—NAMELY, A COMIC MAGAZINE WHICH INCLUDES PICTORIAL STRIPS AND/OR CARTOONS AND/OR STORIES. THE PREMIUM SERVICE CO. INC., New York, N. Y.
Filed June 23, 1945. Serial No. 484,974. PUBLISHED SEPTEMBER 25, 1945. Class 38.

418,300. DRILL PRESSES. THE TOLEDO GENERAL MANUFACTURING COMPANY, Toledo, Ohio.
Filed June 23, 1945. Serial No. 484,989. PUBLISHED OCTOBER 2, 1945. Class 23.

418,301. GREETING CARDS. B. T. BABBITT, INC., Albany and New York, N. Y.
Filed June 27, 1945. Serial No. 485,070. PUBLISHED SEPTEMBER 25, 1945. Class 38.

418,302. RECIPROCATING, CENTRIFUGAL, AND ROTARY PUMPS; HORIZONTAL AND VERTICAL ENGINES OF DIESEL OR DISTILLATE TYPE (USING GAS, BUTANE OR GASOLINE) FOR USE IN DRILLING, PUMPING, OR ELECTRICAL SERVICE; ALSO UNIT PUMPERS. THE CONTINENTAL SUPPLY COMPANY, Dallas, Tex.
Filed June 30, 1945. Serial No. 485,265. PUBLISHED OCTOBER 2, 1945. Class 23.

418,303. SENSITIZED PHOTOGRAPHIC PAPER. GRANT PHOTO PRODUCTS, INCORPORATED, New York, N. Y.
Filed July 4, 1945. Serial No. 485,441. PUBLISHED OCTOBER 2, 1945. Class 26.

418,304. WOMEN'S COATS, SUITS, AND DRESSES. SAMUEL EDWARD ZUCKERMAN, New York, N. Y.
Filed July 6, 1945. Serial No. 485,520. PUBLISHED OCTOBER 2, 1945. Class 39.

418,305. VANITY CASES, COMPACTS AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed July 20, 1945. Serial No. 486,044. PUBLISHED OCTOBER 2, 1945. Class 2.

418,306. REFRIGERATORS. MONITOR EQUIPMENT CORPORATION, New York, N. Y.
Filed July 20, 1945. Serial No. 486,054. PUBLISHED OCTOBER 2, 1945. Class 31.

418,307. FISHING RODS. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed August 4, 1945. Serial No. 486,715. PUBLISHED OCTOBER 2, 1945. Class 22.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

418,308. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) GENERAL DAIRY EQUIPMENT, INC., Minneapolis, Minn. Filed Aug. 30, 1943. Serial No. 463,092.

*Ovl-Koil*

FOR PASTEURIZERS.
Claims use since Feb. 9, 1938.

418,309. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) IRVING C. ELLIOTT, Ione, Calif. Filed Mar. 9, 1944. Serial No. 468,113.

**SLIP-O-NO**

FOR A FLOOR-CONDITIONING COMPOSITION, COMPRISING A PREPARATION FOR APPLICATION TO A POLISHED FLOOR COATING FOR RENDERING THE COATING NON-SKID SOLELY BY APPROPRIATELY CHANGING ITS PHYSICAL STRUCTURE.
Claims use since Dec. 11, 1943.

418,310. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) "AUTOMATIC" SPRINKLER COMPANY OF AMERICA, Youngstown, Ohio. Filed June 29, 1944. Serial No. 471,781.

**HIGH SPEED**

FOR HEAT ACTUATED THERMOSTATS AND SPRINKLER SYSTEM CONTROL THERMOSTATS WHICH ARE PNEUMATIC AND/OR ELECTRIC.
Claims use since JAN. 15, 1943.

418,311. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JONATHAN P. B. FISKE, Auburndale, Mass. Filed July 13, 1944. Serial No. 472,192.

**FISKE-LITE**

FOR WAX CANDLES AND GLASS CUPS FOR HOLDING THE SAME SOLD AS A UNIT.
Claims use since June 30, 1944.

418,312. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WESTERN FOUNDRY SAND COMPANY, Seattle, Wash. Filed Sept. 18, 1944. Serial No. 474,365.

GARNET BLAST

FOR ABRASIVE COMPOSED OF TINY GARNETS.
Claims use since Apr. 5, 1944.

---

418,313. (CLASS 31. FILTERS AND REFRIGERATORS.) RAMSEY-BENNETT COMPANY, Cleveland, Ohio. Filed Oct. 2, 1944. Serial No. 474,820.

KOLD • SAFE

FOR BEVERAGE COOLERS, REFRIGERATORS, AND PARTS THEREOF.
Claims use since Sept. 7, 1944.

---

418,314. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOUND EQUIPMENT CORPORATION OF CALIFORNIA, Glendale, Calif. Filed Jan. 2, 1945. Serial No. 478,167.

KWIKHEAT

FOR ELECTRIC SOLDERING IRONS.
Claims use since December 1937.

---

418,315. (CLASS 32. FURNITURE AND UPHOLSTERY.) FLEETWOOD CRAFTSMEN, INC., Fleetwood, Pa. Filed Feb. 10, 1945. Serial No. 479,670.

*Fleetwood*

FOR MATTRESSES.
Claims use since 1934.

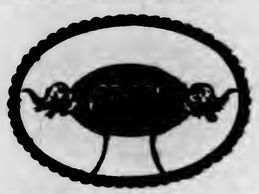
418,316. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ED. S. STOFER, Kansas City, Mo. Filed June 4, 1945. Serial No. 484,148.

STOFER BEAN-LAKE

FOR DUCK CALLS.
Claims use since Jan. 1, 1940.

---

418,317. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) PLASTIC INDUSTRIES, New York, N. Y. Filed June 6, 1945. Serial No. 484,213.



FOR PLASTIC COMPOSITIONS IN POWDER, ROD AND SHEET FORM.
Claims use since May 26, 1943.

---

418,318. (CLASS 15. OILS AND GREASES.) KEM-OIL PRODUCTS COMPANY, Houston, Tex. Filed July 17, 1945. Serial No. 485,914.

KEM-OIL

FOR OIL COMPOSITION FOR THE LUBRICATION OF UPPER CYLINDER WALLS AND VALVES OF INTERNAL COMBUSTION ENGINES.
Claims use since May 1, 1933.

---

418,319. (CLASS 2. RECEPTACLES.) WOLF & DESSAUER, Fort Wayne, Ind. Filed Sept. 4, 1945. Serial No. 487,981.

AMY LEE

FOR PAPER BAGS, FOLDING CARDBOARD BOXES AND PAPERBOARD CARTONS, PAPER SHOPPING BAGS, CLOTH BAGS FOR MAILING MERCHANDISE, FIBREBOARD CASES, AND MAILING CARTONS.
Claims use since Mar. 1, 1944.

# TRADE-MARK REGISTRATIONS RENEWED

45,460. T R & S CO (MONOGRAM). RIVETS—TUBULAR, SOLID, AND PRONGED. Registered Aug. 22, 1905. TUBULAR RIVET & STUD COMPANY, Boston, Mass. Re-renewed Aug. 22, 1945, to Tubular Rivet and Stud Company, Wellesley, Mass., a corporation of Massachusetts. Class 13.

45,545. "VINEYARD QUEEN" AND DRAWING. WINE. Registered Aug. 22, 1905. EMPIRE STATE WINE CO. Renewed Aug. 22, 1945, to R. C. Williams Wineries, Inc., Penn Yan, N. Y., a corporation of New York. Class 47.

45,772. THE JUST WRIGHT SHOE. LEATHER BOOTS AND SHOES. Registered Aug. 29, 1905. E. T. WRIGHT & Co. Re-renewed Aug. 29, 1945, to E. T. Wright & Co., Incorporated, Rockland, Mass., a corporation of Massachusetts. Class 39.

46,162. REPRESENTATION OF A RIDGE OF INSULATING MATERIAL ON EXTERIOR OF INSULATED WIRE. ELECTRIC CONDUCTORS COVERED WITH INDIA-RUBBER. Registered Sept. 5, 1905. THE OKONITE COMPANY, LIMITED, New York, N. Y. Re-renewed Sept. 5, 1945, to The Okonite Company, Passaic, N. J., a corporation of New Jersey. Class 21.

46,486. YERBAINE. PREPARATION FOR DISGUISING THE BITTER OR DISAGREEABLE TASTE OF MEDICINES, SUCH AS QUININ. Registered Sept. 19, 1905. THE ELI LILLY & COMPANY. Re-renewed Sept. 19, 1945, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Class 6.

46,767. GLACIER. ANTIFRICTION OR BABBITT METAL. Registered Oct. 10, 1905. FINDLAY & BATTLE, New York, N. Y.; Richmond, Va.; London, England; Paris, France; and Montreal, Quebec, Canada. Re-renewed Oct. 10, 1945, to Glacier Metal Co., Richmond, Va., a corporation of New York. Class 14.

47,141. "CRESCENT MAPLEINE" AND DRAWING. FLAVORING EXTRACTS. Registered Oct 31, 1905. CRESCENT MANUFACTURING CO., Seattle, Wash., a corporation of Washington. Re-renewed Oct. 31, 1945. Class 46.

48,775. RESILIENT. MAINSPRINGS FOR WATCHES. Registered Jan. 16, 1906. AMERICAN WALTHAM WATCH CO. Re-renewed Jan. 16, 1946, to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts. Class 27.

48,946. CARTER'S. WRITING-INKS AND WRITING FLUIDS OF ALL KINDS. Registered Jan. 16, 1906. THE CARTER'S INK COMPANY, Boston, Mass., and New York, N. Y. Re-renewed Jan. 16, 1946, to The Carter's Ink Company, Cambridge, Mass., a corporation of Massachusetts. Class 11.

49,033. "GREAT STICKER" ETC. AND DRAWING. MUCILAGES. Registered Jan. 23, 1906. THE CARTER'S INK COMPANY, Boston, Mass., and New York, N. Y. Re-renewed Jan. 23, 1946, to The Carter's Ink Company, Cambridge, Mass., a corporation of Massachusetts. Class 5.

49,391. "LA IBERIA" AND DRAWING. CIGARS. Registered Feb. 6, 1906. S. S. PIERCE Co., Boston, Mass., a corporation of Massachusetts. Re-renewed Feb. 6, 1946. Class 17.

49,599. SINGER. OSCILLATING, ROTATING, AND VIBRATING SHUTTLE OR LOOPER SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,600. SINGER. SEWING-MACHINES CONTAINING SHUTTLES OR LOOPERS MOVING TRANSVERSE WITH THE PLANE OF THE BRACKET-ARM AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,601. SINGER. SEWING-MACHINE STANDS, EITHER WITH OR WITHOUT CABINET WORK, AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,602. SINGER. MACHINES FOR SEWING EITHER A SINGLE OR MULTIPLE THREAD CHAIN-STITCH AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,603. SINGER CO. SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,604. SINGER MANUFACTURING CO. SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,605. SINGER SEWING MACHINE CO. SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Feb. 13, 1906. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Re-renewed Feb. 13, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

49,675. "CUTICURA" ETC. AND DESIGN. MEDICATED AND PERFUMED SOAP. Registered Feb. 13, 1906. POTTER DRUG & CHEMICAL CORPORATION, Boston, Mass. Re-renewed Feb. 13, 1946, to Potter Drug & Chemical Corporation, Malden, Mass., a corporation of Maine. Class 4.

49,725. NO SLIP. TANNED SHEEPSKINS. Registered Feb. 13, 1906. RICHARD YOUNG COMPANY, New York, N. Y., a corporation of New York. Re-renewed Feb. 13, 1946. Class 1.

49,804. BLATZ. BOTTLED LAGER-BEER. Registered Feb. 20, 1906. VALENTIN BLATZ BREWING CO. Re-renewed Feb. 20, 1946, to Blatz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Class 48.

49,830. INTERWOVEN. KNITTED HOSIERY, KNITTED UNDERSHIRTS, AND KNITTED DRAWERS. Registered Feb. 20, 1906. JOHN WYCKOFF METTLER. Re-renewed Feb. 20, 1946, to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey. Class 39.

49,876. WARING COMPOUND. INSULATING COMPOUND USED IN THE MANUFACTURE AND INSTALLATION OF ELECTRIC APPARATUS. Registered Feb. 20, 1906. STANDARD UNDERGROUND CABLE COMPANY, Pittsburgh, Pa. Re-renewed Feb. 20, 1946, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Class 21.

49,908. **WARRIOR.** KNIT HOSIERY AND UNDERWEAR. Registered Feb. 20, 1906. M. & C. MAYER. Renewed Feb. 20, 1946, to Lax & Burgheimer Incorporated, New York, N. Y., a corporation of New York. Class 39.

49,909. **"WARRIOR" AND DRAWING.** KNIT HOSIERY AND UNDERWEAR. Registered Feb. 20, 1906. M. & C. MAYER. Re-renewed Feb. 20, 1946, to Lax & Burgheimer Incorporated, New York, N. Y., a corporation of New York. Class 39.

198,491. **VICTAULIC.** PIPES AND TUBES, JOINTS FOR PIPES AND TUBES; VALVE, PIPE AND TUBE FITTINGS; AND VALVES, ALL BEING METAL GOODS. Registered May 19, 1925. THE VICTAULIC COMPANY, LIMITED, London, England, a corporation of Great Britain. Renewed May 19, 1945. Class 13.

200,261. **"CALIFORNIA CLUB" AND DRAWING.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES. Registered June 30, 1925. CALIFORNIA BOTTLING WORKS. Renewed June 30, 1945, to M. S. Fishman, doing business as California Bottling Works, Los Angeles, Calif. Class 45.

201,927. **ALVAREZO.** OLIVES AND PAPRIKA. Registered Aug. 11, 1925. JAMES P. SMITH & COMPANY. Renewed Aug. 11, 1945, to James P. Smith & Company, Inc., New York, N. Y., a corporation of New York. Class 46.

202,136. **FONTAINE.** CHERRIES, MARRONS IN SIRUP, MARRONS GLACÉS, PEAS, ANCHOVIES IN OIL, MUSHROOMS, STRING BEANS, AND BAR-LE-DUC, ALL OF WHICH ARE CANNED. Registered Aug. 18, 1925. JAMES P. SMITH & COMPANY. Renewed Aug. 18, 1945, to James P. Smith & Company, Inc., New York, N. Y., a corporation of New York. Class 46.

202,172. **SAUER'S NERVE AND BONE.** MEDICINAL PREPARATION RECOMMENDED FOR RHEUMATISM, CONTRACTED MUSCLES, PAIN IN THE BREAST, SIDE, OR BACK; PAINS AND STIFFNESS IN THE JOINTS, SCALDS OR BURNS, FROSTED FEET, HARD SWELLINGS AND TUMORS, SPRAINS, TOOTHACHE, THROAT COMPLAINTS OF ALL KINDS, ETC. Registered Aug. 18, 1925. THE C. F. SAUER COMPANY, Richmond, Va., a corporation of Virginia. Renewed Aug. 18, 1945. Class 6.

202,463. **BELLE OF FLORIDA.** FRESH CITROUS FRUITS AND FRESH VEGETABLES. Registered Aug. 25, 1925. A. S. HERLONG & Co., Leesburg, Fla., a firm. Renewed Aug. 25, 1945. Class 46.

202,532. **KINKERRY TWEED.** WOOLEN GOODS IN THE PIECE, AND IN CUT LENGTHS. Registered Aug. 25, 1925. S. STEIN & Co. Renewed Aug. 25, 1945, to S. Stein & Co., Inc., New York, N. Y., a corporation of New York. Class 42.

202,958. **LOCTFAST.** PREPARED ROOFING SHINGLES OF FIBROUS MATERIAL IMPREGNATED WITH A MOISTURE REPELLENT. Registered Sept. 8, 1925. AMALGAMATED ROOFING COMPANY. Renewed Sept. 8, 1945, to The Logan-Long Company, Chicago, Ill., a corporation of Ohio. Class 12.

202,959. **IN-LADE.** PREPARED ROOFING IN ROLLS AND PREPARED ROOFING SHINGLES OF FIBROUS MATERIAL IMPREGNATED WITH A MOISTURE REPELLENT. Registered Sept. 8, 1925. AMALGAMATED ROOFING COMPANY. Renewed Sept. 8, 1945, to The Logan-Long Company, Chicago, Ill., a corporation of Ohio. Class 12.

203,285. **4 IN 1.** PREPARED ROOFING SHINGLES OF FIBROUS MATERIAL IMPREGNATED WITH A MOISTURE REPELLENT. Registered Sept. 15, 1925. AMALGAMATED ROOFING COMPANY. Renewed Sept. 15, 1945, to The Logan-Long Company, Chicago, Ill., a corporation of Ohio. Class 12.

203,552. **FABRICAST.** MOULDSET BLOCKS TO BE USED IN THE ERECTION OF BUILDINGS AND WALLS. Registered Sept. 22, 1925. RUMFORD CHEMICAL WORKS, Providence, R. I. Renewed Sept. 22, 1945, to Rumford Chemical Works, Rumford, R. I., a corporation of Rhode Island. Class 12.

203,736. **KASHMIR NEEDLEPOINT WEAVE.** WOOLEN PIECE GOODS. Registered Sept. 22, 1925. FORSTMANN & HUFFMANN COMPANY. Renewed Sept. 22, 1945, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

203,737. **KASHMIR NEEDLEPOINT.** WOOLEN PIECE GOODS. Registered Sept. 22, 1925. FORSTMANN & HUFFMANN COMPANY. Renewed Sept. 22, 1945, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

203,851. **DAY BY DAY.** CANNED VEGETABLES. Registered Sept. 29, 1925. LODI CANNING COMPANY, Lodi, Wis., a corporation of Wisconsin. Renewed Sept. 29, 1945. Class 46.

203,885. **DICTAPHONE.** PHONOGRAPHS, MACHINES FOR PHONOGRAPHICALLY RECORDING, MACHINES FOR PHONOGRAPHICALLY REPRODUCING, MACHINES FOR PHONOGRAPHICALLY RECORDING AND REPRODUCING DICTATION OR OTHER SOUNDS, SOUND RECORDS, SOUND-RECORD BLANKS AND THEIR INDIVIDUAL CONTAINERS, ELECTRICALLY-OPERATED PHONOGRAPHIC SOUND RECORDING AND REPRODUCING MACHINES, AND CERTAIN OTHER NAMED ARTICLES. Registered Sept. 29, 1925. DICTAPHONE CORPORATION, Bridgeport, Conn., a corporation of New York. Renewed Sept. 29, 1945. Class 36.

203,969. **BREAKSTONE'S BEST BUTTER.** BUTTER. Registered Sept. 29, 1925. BREAKSTONE BROS., INC. Renewed Sept. 29, 1945, to Breakstone Bros., Inc., New York, N. Y., a corporation of Delaware. Class 46.

204,798. **"RELIANCE SPECIAL" AND DESIGN.** WORK SHIRTS. Registered Oct. 27, 1925. RELIANCE MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Oct. 27, 1945. Class 39.

205,195. **DICTAPHONE.** RECORD-RESURFACING AND RECORD-SHAVING MACHINES USED PARTICULARLY TO RECONDITION THE SURFACE OF PHONOGRAPH RECORDS FOR USE. Registered Nov. 3, 1925. DICTAPHONE CORPORATION, Bridgeport, Conn., a corporation of New York. Renewed Nov. 3, 1945. Class 23.

205,312. **FATHOMETER.** APPARATUS FOR MEASURING DISTANCES BY REFLECTED SOUND WAVES OR BY SIMILAR ACOUSTIC METHODS AND PARTICULARLY FOR APPARATUS FOR DETERMINING DEPTHS OF WATER AND SOUNDINGS. Registered Nov. 3, 1925. SUBMARINE SIGNAL CORPORATION, Wilmington, Del., and Boston, Mass. Renewed Nov. 3, 1945, to Submarine Signal Company, Boston, Mass., a corporation of Maine. Class 26.

206,138. **FONTAINE BRAND.** IMPORTED FRENCH CASTILE SOAP. Registered Nov. 24, 1925. JAMES P. SMITH & COMPANY. Renewed Nov. 24, 1945, to James P. Smith & Company, Inc., New York, N. Y., a corporation of New York. Class 4.

206,186. **PRO-DUCTO-MATIC.** MACHINE TOOLS AND PARTICULARLY MILLING MACHINES, MILLING CUTTERS, DIE SETS, AND HAMMERS. Registered Nov. 24, 1925. THE BILTON MACHINE TOOL COMPANY, Bridgeport, Conn. Renewed Nov. 24, 1945, to Van Norman Company, Springfield, Mass., a corporation of Massachusetts. Class 23.

206,287. **LIFE SIZE.** MEN'S AND BOYS' NAINSOOK ATHLETIC UNION SUITS OF KNITTED OR TEXTILE FABRICS. Registered Nov. 24, 1925. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Nov. 24, 1945. Class 39.



206,703. **"GREASE PAK" AND DESIGN.** GREASE BUCKETS WITH PUMP ATTACHED. Registered Dec. 8, 1925. BENNETT PUMPS CORPORATION, Muskegon, Mich. Renewed Dec. 8, 1945, to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware. Class 23.

206,830. **"PCPC" ETC. AND DESIGN.** POULTRY DISINFECTANTS AND INSECTICIDES, A DIGESTIVE AID AND INTESTINAL ANTISEPTIC FOR POULTRY, NONPOISONOUS ANTISEPTIC STERILIZER AND DEODORANT, ANTISEPTICS, INTESTINAL HÆMOSTATICS AND ANTISEPTICS, WORM REMEDIES. Registered Dec. 8, 1925. PURITY CHEMICAL PRODUCTS COMPANY, Santa Rosa, Calif., a corporation of California. Renewed Dec. 8, 1945. Class 6.

206,985. **CAR CEMENT.** ASPHALTIC-BASE PAINTS FOR COATING CAR ROOFS, UNDERFRAMES, SUPERFRAMES, AND POINTS OF CONTACT. Registered Dec. 15, 1925. ROBERT M. LUCAS. Renewed Dec. 15, 1945, to Anne Lucas, doing business as Robert M. Lucas Co., Chicago, Ill. Class 16.

207,066. **MILKETTES.** CANDY TABLETS MADE OF SUGAR, MILK POWDER, AND FLAVORING MATTER. Registered Dec. 15, 1925. GOLDEN STATE MILK PRODUCTS COMPANY. Renewed Dec. 15, 1945, to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware. Class 46.

207,528. **IL FIORE DI NAPOLI.** ALIMENTARY PASTES. Registered Jan. 5, 1926. ITALIAN-AMERICAN PASTE CO. INC., San Francisco, Calif., a corporation of California. Renewed Jan. 5, 1946. Class 46.

208,164. **MONTE CARLO CLUB.** NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES. Registered Jan. 19, 1926. M. KANTOR, doing business as Kantor Bottling Company, Beloit, Wis. Renewed Jan. 19, 1946. Class 45.

208,331. **GO-NEX.** INSECTICIDES. Registered Jan. 26, 1926. GOULARD & OLENA, INC., New York, N. Y., a corporation of New York. Renewed Jan. 26, 1946. Class 6.

208,702. **"EAU DE COLOGNE CLEANSING CREAM" AND DRAWING.** CLEANSING CREAM. Registered Feb. 9, 1926. THE ARMAND COMPANY, Des Moines, Iowa, a corporation of Iowa. Renewed Feb. 9, 1946. Class 6.

208,720. **REPRESENTATION OF A WARRIOR.** MEDICINE FOR TOBACCO HABIT AND CHRONIC CONSTIPATION. Registered Feb. 9, 1926. STERLING REMEDY COMPANY, Jersey City, N. J., a corporation of New Jersey. Renewed Feb. 9, 1946. Class 6.

208,792. **BABCOCKS SUPERFUMES.** FACE POWDERS, FACE CREAMS, FACE PACKS, TOILET WATERS, ROUGES, PERFUMES, HAIR TONICS, HAIR OILS, DENTIFRICES, TOOTH POWDERS, NAIL POLISHES, DEODORIZING PREPARATIONS, BATH SALTS, SMELLING SALTS, SACHETS, AND INCENSE. Registered Feb. 9, 1926. A. P. BABCOCK COMPANY, New York, N. Y. Renewed Feb. 9, 1946, to A. P. Babcock Company, Rutherford, N. J., a corporation of New York. Class 6.

208,879. **LITTLE HAT BOX.** FACE POWDER. Registered Feb. 9, 1926. THE ARMAND COMPANY, Des Moines, Iowa, a corporation of Iowa. Renewed Feb. 9, 1946. Class 6.

208,885. **IPSATOL.** COUGH MEDICINE. Registered Feb. 9, 1926. DAVIES, ROSE & COMPANY, LIMITED, Boston, Mass., a corporation of Massachusetts. Renewed Feb. 9, 1946. Class 6.

208,903. **NOFADE.** WOMEN'S AND CHILDREN'S DRESSES, WOMEN'S SLIP-OVERS AND BLOOMERS; WOMEN'S, MEN'S, AND CHILDREN'S KNITTED AND TEXTILE UNDERWEAR; LADIES' GOWNS AND PYJAMAS. Registered Feb. 9, 1926. OSCAR HOROWITZ, doing business as Commercial Shirt Co. Renewed Feb. 9, 1946, to Commercial Shirt Corporation, New York, N. Y., a corporation of New York. Class 39.

208,911. **B & D "FELT-GRIP".** PICK FOR STRINGED MUSICAL INSTRUMENTS. Registered Feb. 9, 1926. THE BACON BANJO CO., INC., Groton, Conn. Renewed Feb. 9, 1946, to The Fred Gretsch Manufacturing Co., Brooklyn, N. Y., a corporation of New York. Class 36.

208,929. **"MELLWOOD" ETC. AND DESIGN.** WHISKY. Registered Feb. 9, 1926. KENTUCKY DISTILLERIES & WAREHOUSE CO. Renewed Feb. 9, 1946, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Class 49.

209,056. **"THE HEART OF THE CORN BELT" ETC. AND DRAWING.** FIELD SEEDS. Registered Feb. 16, 1926. ILLINOIS CROP IMPROVEMENT ASSOCIATION, Urbana, Ill., a corporation of Illinois. Renewed Feb. 16, 1946. Class 1.

209,151. **"REX" ETC. AND DRAWING.** WALL SIZE. Registered Feb. 16, 1926. THE PATENT CEREALS COMPANY, Geneva, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 5.

209,178. **RUT-MONT.** TYPEWRITER PAPER. Registered Feb. 16, 1926. WILLIAM S. TUTTLE, doing business as Tuttle Law Print, Rutland, Vt. Renewed Feb. 16, 1946. Class 37.

209,183. **REAL SEAL.** JAR CAPS OR CLOSURES. Registered Feb. 16, 1926. WILLIS J. PEELLE, doing business as Real Seal Co., Chicago, Ill. Renewed Feb. 16, 1946, to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York. Class 50.

209,191. **BLUE ENSIGN.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT; FRESH DECIDUOUS FRUITS—NAMELY, PEARS; APRICOTS; FRESH GRAPES. Registered Feb. 16, 1926. MOUNTAIN VIEW FRUIT ASSOCIATION, Ontario, Calif. Renewed Feb. 16, 1946, to Mountain View Fruit Association, Upland, Calif., a corporation of California. Class 46.

209,212. **THE DODGE BULLETIN.** DAILY CONSTRUCTION NEWS BULLETIN. Registered Feb. 16, 1926. F. W. DODGE CORPORATION, New York, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 38.

209,218. **"GOODS OF THE WOODS".** ROUGH AND FINISH LUMBER, WOOD SHINGLES, SASH AND DOORS, CEMENT AND PLASTER, AND WALL BOARD. Registered Feb. 16, 1926. E. K. WOOD LUMBER COMPANY, San Francisco, Calif., a corporation of California. Renewed Feb. 16, 1946. Class 12.

209,230. **ORIGINAL ROCKFORD.** HOSIERY. Registered Feb. 16, 1926. NELSON KNITTING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed Feb. 16, 1946. Class 39.

209,257. **VIOLET.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Feb. 16, 1926. DUARTE-MONROVIA CITRUS ASSOCIATION. Renewed Feb. 16, 1946, to Duarte-Monrovia Fruit Exchange, Duarte, Calif., a corporation of California. Class 46.

209,267. **NEXT.** MEN'S AND BOYS' WEARING APPAREL—NAMELY, OVERALLS, PANTS, COATS; DRESS, NEGLIGEE, AND WORK SHIRTS; MACKINAWS, ATHLETIC UNDERWEAR OF TEXTILE FABRIC, PYJAMAS, AND NIGHTGOWNS. Registered Feb. 16, 1926. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Feb. 16, 1946. Class 39.

209,362. **"YELLOW LABEL".** EXTRACT OF WITCH-HAZEL. Registered Feb. 23, 1926. THE E. E. DICKINSON CO., Essex, Conn., a corporation of Connecticut. Renewed Feb. 23, 1946. Class 6.

209,384. **"MARTA" AND DRAWING.** CIGARS. Registered Feb. 23, 1926. BIAGIO MIDULLA, doing business as B. Midulla Company. Renewed Feb. 23, 1946, to Marta Cigar Co., New York, N. Y., a firm. Class 17.

209,473. **FRANCHON.** WOMEN'S, MISSES', AND CHILDREN'S DRESSES. Registered Feb. 23, 1926. THE FRANCHON COMPANY. Renewed Feb. 23, 1946, to H. Linet & Co., Philadelphia, Pa., a partnership. Class 39.

209,482. **SAYLCO.** COTTON PIECE GOODS. Registered Feb. 23, 1926. SAYLES FINISHING PLANTS, INC. Renewed Feb. 23, 1946, to Sayles Finishing Plants, Inc., Saylesville, R. I., a corporation of Rhode Island. Class 42.

209,484. **"COLUMBUS" AND DRAWING.** MEN'S SHIRTS AND WOMEN'S SHIRT WAISTS. Registered Feb. 23, 1926. COLUMBUS SHIRT COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Feb. 23, 1946. Class 39.

209,510. **BOND.** RAZOR BLADES. Registered Feb. 23, 1926. INTERNATIONAL SAFETY RAZOR CORPORATION, Bloomfield, N. J., a corporation of New Jersey. Renewed Feb. 23, 1946 . Class 23.

209,517. **FOREST QUEEN.** SHEATH KNIFE. Registered Feb. 23, 1926. CATTARAUGUS CUTLERY CO., Little Valley, N. Y., a corporation of New York. Renewed Feb. 23, 1946. Class 23.

209,562. **"GRAND SLAM" AND DRAWING.** SPORTING GOODS—NAMELY, GOLF CLUBS, BOTH WOODEN AND IRON, GOLF BALLS, AND BASEBALL BATS. Registered Feb. 23, 1926. HILLERICH & BRADSBY CO., Louisville, Ky., a corporation of Kentucky. Renewed Feb. 23, 1946. Class 22.

209,583. **LIQUID BEAUTY.** FLAT WALL PAINTS. Registered Feb. 23, 1926. AMALGAMATED PAINT COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Feb. 23, 1946. Class 16.

# REISSUES

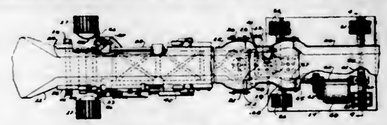
## DECEMBER 11, 1945

**22,703**
**SELF-LOADING DEVICE FOR SHAKER CONVEYERS**

**John H. Holstein, Baltimore, Md., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Original No. 2,326,857, dated August 17, 1943, Serial No. 422,059, December 8, 1941. Application for reissue September 21, 1945, Serial No. 617,930**

**13 Claims. (Cl. 198—14)**

1. In a self-loading device for shaker conveyers, a reciprocating trough section, an extensible trough section having a gathering shovel on the forward end thereof, mounted for extensible movement with respect to said reciprocating trough section, and a power driven traction device supporting the forward end of said reciprocating trough section above the ground and adapted to move said reciprocating and extensible trough sections in a lateral or a longitudinal direction, said traction device being adjustably movable about a vertical axis and being driven by power when in various positions of adjustment about said vertical axis.



# PLANT PATENTS

## GRANTED DECEMBER 11, 1945

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

**663**
**ROSE PLANT**

**Frederick H. Howard, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.**
**Application December 26, 1944, Serial No. 569,811**

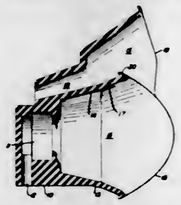
**1 Claim. (Cl. 47—61)**

The new and distinct variety of hybrid tea rose plant substantially as herein shown and described, similar to its parent but characterized particularly by its vigorous climbing habits and the ability to produce continuous and prolific large blooms even on first-year plants.

# PATENTS

## GRANTED DECEMBER 11, 1945

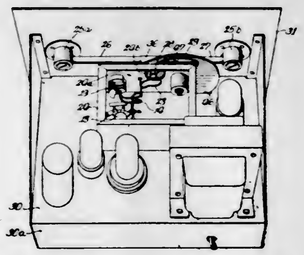
**2,390,488**
**NOISE SHIELD FOR ACOUSTIC DEVICES**
**Edward L. Alford and Merlin L. Martin, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application September 28, 1943, Serial No. 504,100**
**3 Claims. (Cl. 179—188)**



1. An attachment for a telephone transmitter, comprising a mouthpiece portion bounding a first cavity, a nosepiece portion bounding a second cavity, said cavities having communication with each other by way of an elongated restricted aperture, and means defining a restricted passageway connecting said second cavity to the atmosphere.

---

**2,390,489**
**HIGH FREQUENCY ATTENUATING DEVICE**
**George Edward Archenbronn, Chicago, Ill., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois**
**Application June 21, 1943, Serial No. 491,614**
**1 Claim. (Cl. 250—36)**



In combination with a signal generator which includes circuit elements disposed within a conductive housing and is provided with an output inductance element disposed within said housing adjacent one wall thereof, a chassis supporting said housing and provided with a control panel spaced apart from said one wall of said housing, terminal connectors supported upon said panel, shielded conductor sections extending between said wall and said panel from said connectors to points in proximity to said inductance element, a pickup inductance element connected between the adjacent ends of said conductor sections and disposed between said one wall and said panel in proximity to said output inductance element, said one wall being provided with an opening therein through which said inductance elements are mutually coupled, and means for variably closing said opening, thereby to vary the coupling between said inductance elements.

---

**2,390,490**
**FILTER POWDER**
**Thomas C. Atwell, Warren, Pa., assignor to Floridin Company, Warren, Pa., a corporation of Delaware**
**No Drawing. Application May 2, 1945, Serial No. 591,625**
**2 Claims. (Cl. 252—299)**

2. A process for dry grinding fuller's earth to control the distribution of the particle sizes for use as a decolorizing filter aid in the reclamation of a dry cleaning fluid comprising drying the raw earth to have a natural free moisture content of between about 20% to 40%, then grinding the dried earth to a particle size below 74 microns, and thereafter activating the earth by drying it to have a water of hydration content of from not less than about 1% to less than 6%.

---

**2,390,491**
**LUBRICANT**
**Harry T. Bennett and Jerry B. Marshall, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware**
**No Drawing. Application January 30, 1942, Serial No. 428,867**
**2 Claims. (Cl. 252—48.6)**

1. A lubricant comprising a petroleum lubricating oil wherein foaming is inhibited by an acetyl ester of a sulfonated ricinoleic acid dissolved in said oil, the quantity of said ester being about 0.05% of the lubricant.

---

**2,390,492**
**LUBRICANT**
**Harry T. Bennett and Jerry B. Marshall, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware**
**No Drawing. Application January 30, 1942, Serial No. 428,868**
**4 Claims. (Cl. 252—33)**

1. A lubricant comprising a petroleum lubricating oil wherein foaming is inhibited by an alkyl ester of a sulfonated ricinoleic acid dissolved in said oil, the quantity of said ester being about 0.05% of the lubricant.

---

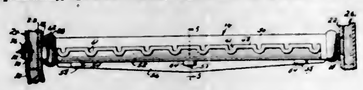
**2,390,493**
**CENTER BEARING**
**Stefan Bochenek, Enola, Pa.**
**Application April 20, 1943, Serial No. 483,798**
**1 Claim. (Cl. 122—374)**

In a steam boiler firebox, a grate bearing comprising a tubular body having its ends connected to the boiler wall structure and communicating with the water space therein, a depending web extending along the bottom of said body longitudinally thereof, a pair of flanges extending along





opposite lower side portions of the body in close contacting engagement therewith, each of said flanges having its upper edge disposed intermediate the top and bottom of the body and formed with longitudinally spaced sockets for pivotally supporting grate bars, apertured projections ex-



tending laterally from opposite sides of said web at longitudinally spaced intervals and formed with vertical apertures, and a plurality of fingers depending from the bottom edges of said flanges and slidably fitted into the apertures of said lateral projections to removably support the flanges.

---

**2,390,494**
**CLARIFYING APPARATUS**
**Southwick W. Briggs, Washington, D. C., and Walter C. Bauer, Chevy Chase, Md.; said Bauer assignor to Briggs Clarifier Company, Washington, D. C., a corporation of Delaware**
**Application October 27, 1943, Serial No. 507,824**
**9 Claims. (Cl. 210—184)**

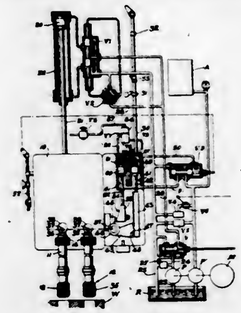


8. A filtering apparatus comprising a chamber, an apertured tube projecting into the chamber from one wall thereof, a flange carried by said tube and spaced from said chamber wall, a plug fixed in the end of said tube and having an axial bore, a rod slidably mounted in said bore and having a free end projecting from the tube, a plunger positioned in said tube and secured to the rod in said tube, a spring interposed between the plug and plunger, urging said rod into said tube, means for preventing rotation of the plunger in said tube, tubular filter means surrounding said tube and rod, and means threadedly cooperating with the free end of the rod for clamping the tubular filter means between said threaded means and said flange.

---

**2,390,495**
**CONTROL MECHANISM FOR HONING MACHINES**
**Harry J. Caldwell, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois**
**Application February 6, 1943, Serial No. 474,917**
**5 Claims. (Cl. 51—34)**

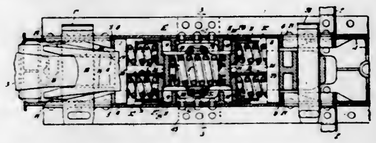
1. Mechanism for actuating an expansible and contractible honing tool comprising, in combination, an actuating member movable in one direction to expand the tool and in the opposite direction to contract the tool, power actuated means for imparting movement to said actuating member, a shiftable abutment supported for movement transversely of the path of said actuating member, said abutment having a control surface inclined with respect to its path of movement and positioned for engagement by said actuating member, a pressure fluid actuator operable to shift



said abutment and thereby cause the control surface to recede from the actuating member, means for supplying pressure fluid to said actuator, a control valve operative to regulate the flow of pressure fluid to said actuator and thereby determine the rate of recession of the control surface from the actuating member, and other valve means operable to by-pass said control valve and thereby increase the rate of recession of the control surface from the actuating member.

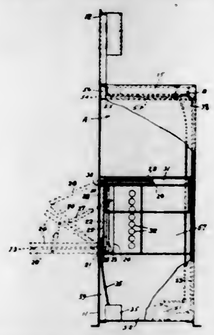
---

**2,390,496**
**DRAFT MECHANISM FOR RAILWAY CARS**
**Argyle Campbell, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois**
**Application December 29, 1943, Serial No. 516,005**
**6 Claims. (Cl. 213—45)**



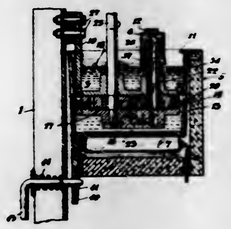
1. In a railway car having center sills, the combination of a longitudinally movable yoke member positioned between the center sills, a coupler connected to the forward end of said yoke and adapted to move said yoke longitudinally, forward and rear stops fixedly attached to the inner sides of the center sills, forward and rear follower plates bearing against said stops, a reciprocable column within said yoke and movable independently thereof and having spring seats at the ends thereof, coil springs positioned against said seats and bearing against the adjacent follower plates, an additional coil spring means within said column, and means bearing upon the ends of said additional spring means for transmitting pressure from said follower plates to said additional spring means.

2,390,497
**LITHOGRAPHIC PLATE MAKING APPARATUS**
James T. Campbell, Detroit, Mich.
Application December 31, 1942, Serial No. 470,871
2 Claims. (Cl. 95—76)



1. Apparatus for processing lithographic printing plates from developed film comprising a cabinet housing, a vertically disposed blanket frame hingedly mounted and nested within said housing and adapted to be pivoted outwardly, a glass frame nested within said housing hingedly mounted on said blanket frame to tilt therewith, and with respect thereto, a bracket member interconnecting said frames for limiting relative tilting movement, a vacuum producing source within said housing, a conduit connecting said source and the top surface of said blanket frame adjacent said glass frame, a translucent opaquing table horizontally and slidably disposed within said housing adapted to tilt downwardly angularly when withdrawn therefrom, said blanket frame being adapted to tilt outwardly at an angle independent of said glass frame to form a rest for the outer end of said opaquing table.

2,390,498
**APPARATUS AND METHOD FOR APPLYING SOLDER**
Emil R. Capita, Flushing, N. Y.
Application December 12, 1941, Serial No. 422,702
12 Claims. (Cl. 117—97)

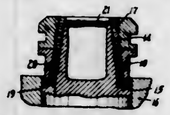


11. The method of applying solder to an article which comprises delivering a stream of molten solder to the article through a member having a rigid surface which rubs across the article so that the solder flows between the surface of the article and the rigid surface and a coating of the solder is distributed around the stream and covers a wide area of the article.

2,390,499
**PREPARATION OF CALCIUM PANTOTHENATE**
Gustaf H. Carlson and Sidney R. Safir, Pearl River, N. Y., assignors to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application January 17, 1942, Serial No. 427,178
4 Claims. (Cl. 260—534)

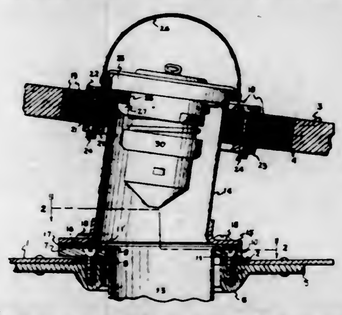
1. A method for producing calcium pantothenate which comprises reacting a substance of the group consisting of calcium ammonium and calcium amide with β-alanine in an alcoholic medium and subsequently adding α-hydroxy-β,β-dimethyl-γ-butyrolactone to the alcoholic medium.

2,390,500
**LOW VOLUME SINKHEAD**
Walter M. Charman, Shaker Heights, and Benjamin F. Anthony, Cleveland Heights, Ohio; said Anthony assignor to Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application July 30, 1942, Serial No. 452,948
2 Claims. (Cl. 22—147)



1. In a composite hot top, a metal casing, a semipermanent refractory lining covering the inner wall of the casing, and auxiliary lining means covering the lower portion of said semipermanent lining for reducing the cross-sectional area of the space enclosed by the lower portion of the hot top and for decreasing the heat loss from said lower portion.

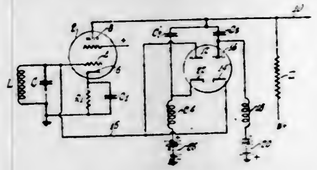
2,390,501
**FLUID CONDUIT**
Victor R. Abrams, Detroit, Mich.
Application June 2, 1943, Serial No. 489,362
5 Claims. (Cl. 285—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for providing a fluid path through two spaced members each having an opening therethrough, said means comprising a washer adapted to be mounted on one of said members around its opening, said washer having two circular eccentric series of openings, a conduit adapted for insertion in the opening of the other member, the last named opening being oversized for said conduit, an attaching flange extending from said conduit and having a circular series of openings adapted to register with one of the first named series, the other series of openings in said washer providing means for attachment to the adjacent member, and means for packing the conduit in the opening of the remaining member.

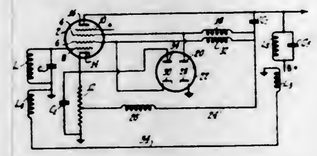


2,390,502
**LIMITER CIRCUIT FOR FREQUENCY MODULATION RECEIVERS**
Carl E. Atkins, Oak Park, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application January 7, 1942, Serial No. 425,843
11 Claims. (Cl. 178—44)



3. A limiter circuit for radio receivers comprising an amplifier, an input circuit and an output circuit therefor, a pair of diodes, means connecting the anode of one diode and the cathode of the other diode together and to said input circuit, means for applying a positive biasing potential to the cathode of the first mentioned diode and for applying a negative biasing potential to the anode of the last mentioned diode, and circuit connections, exclusive of said biasing means, between the output circuit and said last mentioned anode and cathode whereby, when the output voltage exceeds the potentials applied to said diodes, current will be fed back therethrough to the input circuit.

2,390,503
**LIMITER CIRCUIT FOR FREQUENCY MODULATION RECEIVERS**
Carl Edward Atkins, Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Original application January 7, 1942, Serial No. 425,843. Divided and this application December 31, 1942, Serial No. 470,780
4 Claims. (Cl. 178—44)



1. A limiter circuit for radio receivers comprising an amplifier having a cathode, a control grid and at least two other grids, an input circuit connected to said control grid, an output circuit having an impedance therein, said other two grids being connected with said output circuit through separate radio frequency impedances for reception of degenerative potentials therefrom, non-linear impedances oppositely connected with said last mentioned grids serving together with said radio frequency impedances as current dividers for thwarting degeneration during passage of current therethrough, and means for applying potential differences across said non-linear impedances in their current carrying directions whereby they become non-conductive only when the voltage impressed thereupon from the output circuit overrides said potential differences.

2,390,504
**CENTRIFUGAL AIR COMPRESSOR**
Adolph L. Berger, Dayton, Ohio
Application October 20, 1943, Serial No. 506,979
4 Claims. (Cl. 230—127)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



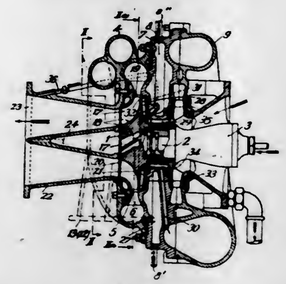
1. In a high speed centrifugal impeller of the class described, a circular casing having opposite front and rear walls smoothly blending into an enlarged annular peripheral chamber, substantially circular in cross section, having a tangential fluid outlet, one of said walls having a central fluid inlet opening therein, an impeller member concentrically rotatable within the casing between the front and rear walls thereof comprising spaced annular shroud members having their peripheries disposed inwardly of the said annular peripheral chamber to leave an annular space between the periphery of the impeller and said peripheral chamber, and disposed in spaced relation to the side walls of the casing, one of said shroud members having a fluid inlet in register with the fluid inlet in the wall of the casing, main impeller blades extending between the shroud members of the impeller member, auxiliary unobstructed impeller blades projecting from said shroud members toward said front and rear walls of the casing for inducing an auxiliary boundary layer flow of the fluid being pumped, along each adjacent side wall of the casing to be delivered in a plane parallel to the plane of rotation of the impeller at the periphery of the impeller member at each side of the main fluid flow from the main impeller blades between the same and the front and rear walls of the casing to provide a boundary fluid flow along the interior of the casing at opposite sides of the main fluid flow to eliminate turbulence in the fluid being pumped.

**2,390,505**
**ROPE SPLICING TOOL**
**Elmer H. Borgelt, Dayton, Ohio**
**Application September 20, 1944, Serial No. 554,931**
**4 Claims. (Cl. 57—23)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



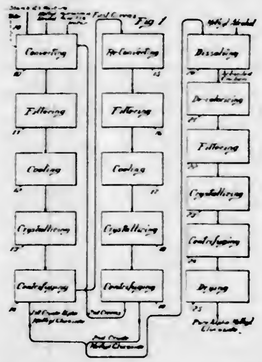
1. A rope splicing tool comprising a handle provided with a concentrically disposed socket extending longitudinally into one end thereof, a bit shank of substantially the same cross sectional area as that of said socket removably mounted in said socket in non-revoluble relation to said socket, said shank being provided with a radially extending shoulder disposed at a distance from the adjacent handle end, in assembled relation, and a tubular sleeve removably mounted on said bit shank between said shoulder and said adjacent handle end.

**2,390,506**
**TURBINE WITH OVERHUNG ROTOR**
**Alfred Büchi, Winterthur, Switzerland**
**Application October 21, 1942, Serial No. 462,859**
**In Switzerland May 23, 1942**
**5 Claims. (Cl. 253—39)**



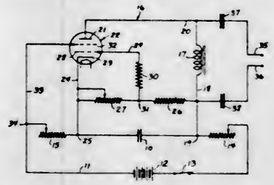
1. In an overhung rotor turbine, particularly adapted for gaseous motive fluids, such as hot gases, and discharging through a diffuser, a composite gas inlet casing having various individual supply conduits, at least part of said conduits extending at the entrance to said casing in the direction of the turbine axis and all said conduits being crowded into an arrangement of closely spaced convolutions terminating in a nozzle arrangement having a limited number of tangentially directed inlet nozzles, a turbine rotor body carrying a blading arranged in said casing within said nozzle arrangement, the individual blades of said rotor body being substantially radially directed along at least a radially outer blade portion and being substantially plane transversely to the turbine axis, said rotor body confining said blading by a concave portion having a relatively large radius of curvature adapting said blading to smoothly divert said motive fluid into the direction of said axis and pass it at a high velocity but under a lower pressure into said diffuser where the gas velocity is converted into a pressure approximating the pressure confronting the discharging gases.

**2,390,507**
**PRODUCTION OF ALKYL GLYCOSIDES**
**Sidney M. Cantor, Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey**
**Application January 21, 1941, Serial No. 375,288**
**25 Claims. (Cl. 260—210)**



25. Non-crystallizable sirup comprising the reaction product of starch, and an alcohol having from 2 to 5 carbon atoms, in contact with an acid catalyst and an amount of water sufficient to promote the reaction but small enough in comparison with the alcohol, so that alcoholysis predominates over hydrolysis, which sirup contains a major quantity of glucosides, a small quantity of free reducing sugar, and a small quantity of the glycosides of dextrose polymers intermediate the starch and dextrose, sufficient to make said sirup non-crystallizable.

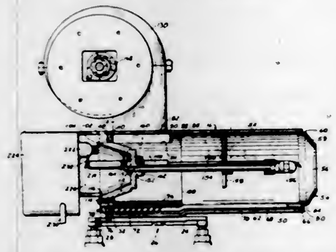
**2,390,508**
**THYRATRON INVERTER**
**Henry Carleton, Washington, D. C.**
**Application August 4, 1943, Serial No. 497,412**
**2 Claims. (Cl. 315—237)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In a self-excited relaxation inverter, a condenser, a source of direct current, a condenser charging circuit including a variable resistor connecting the condenser to the negative side of said current source, a gas tube having a cathode, an anode, a control grid, and a shield grid, an oscillatory circuit including said condenser and bridging said cathode and anode, means including a voltage divider shunting the condenser for supplying positive bias voltages from said source to said anode and said control grid, and means including said variable resistor in the condenser charging circuit for supplying a negative bias voltage from said source to said shield grid, said positive and negative bias voltages depending on the condition of charge of said condenser and said grid biasing voltages approaching definite critical values at which said tube becomes conductive as the charge of the condenser approaches a predetermined value.

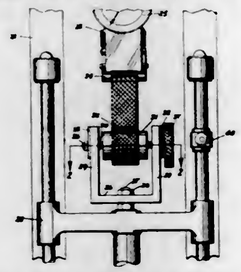


**2,390,509**
**OIL-BURNER CONSTRUCTION**
**George Irving Carter, Teaneck, N. J., assignor to General Oil Heating Corporation, West New York, N. J., a corporation of New Jersey**
**Application August 3, 1940, Serial No. 350,392**
**16 Claims. (Cl. 158—28)**



1. In oil-burner construction, a blast tube having a substantially open firing end, the other end of the tube being closed, the tube having a laterally opening port, means communicating with the tube through said port for producing a flow of air in the tube from the port to the firing end, electrodes supported in the tube and extending from the tube through the closed end, and a transformer mounted on the tube for movement into and out of electrical circuit-making relation to the extending electrodes.

**2,390,510**
**ADHESIVE TESTING DEVICE**
**Clarence K. Chatten, Jackson Heights, N. Y.**
**Application February 19, 1945, Serial No. 578,761**
**5 Claims. (Cl. 73—150)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. A device for testing the strength of adhesion between adhesively bonded layers of a test specimen comprising a stationary load registering head to which a free end portion of one of said layers of said test specimen is to be anchored, a movable head longitudinally away from said stationary head, means for moving said movable head, and a freely rotatable member detachably mounted upon the said movable head for receiving another layer of said test specimen.

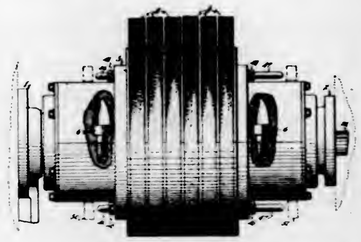
**2,390,511**
**COMPOSITIONS OF MATTER AND METHOD OF PREPARATION THEREOF**
**Allan E. Chester, Highland Park, and Frederick F. Reisinger, Waukegan, Ill., assignors to Poor & Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application April 24, 1944, Serial No. 532,532**
**14 Claims. (Cl. 252—1)**

1. The product of the reaction of piperonyl aldehyde with an aldonic acid.

**2,390,512**
**IDENTIFICATION OF MATERIALS**
**Benjamin W. Collins, Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application August 14, 1941, Serial No. 406,917**
**20 Claims. (Cl. 106—165)**

1. A solution of an organic filament-forming material capable of being formed into artificial filaments, yarns, and other shaped structures containing in an amount insufficient to change the perceptible general characteristics of the shaped structure, of the order of less than 1200 parts thereof per million parts of the structure, a material by which the shape may be identified comprising an insoluble metal silicate.

**2,390,513**
**POWER TAKE-OFF STRUCTURE**
**Kibbey W. Couse, Newark, N. J.**
**Application March 28, 1944, Serial No. 528,393**
**11 Claims. (Cl. 74—11)**

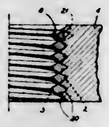


1. A power take-off structure including a casing having an outer surface adapted to receive means for transmitting power from the casing, support means carrying bearings for each end of the casing, a driving shaft projecting through the support means at one end of the casing toward the interior of the casing and operatively carrying a member having clutch teeth, a driven shaft projecting through the support means at the other end of the casing toward the interior thereof and operatively carrying on the end a member having clutch teeth, a sleeve extending inwardly of the casing in alignment with the

driving shaft and having clutch teeth slidably meshing with the clutch teeth on said member carried by the driving shaft, a stud having one end entering the sleeve with means for operatively fastening the stud and sleeve together, the other end of the stud terminating in a flange adjacent the clutch teeth of said member on the driven shaft, the flange having clutch teeth thereon, a member fixed to the casing and having clutch teeth, means within the casing for shifting the sleeve and stud to cause said clutch teeth on the flange to engage either the clutch teeth on the member carried by the driven shaft or the clutch teeth of the member carried by the casing, said means within the casing having parts extending outside the casing, and means for acting on said extending parts for causing the power shift substantially as described.

---

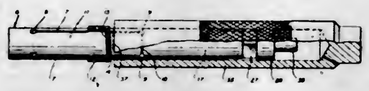
**2,390,514**
**WIRE COIL INSERT**
**Harkness W. Cram, Mount Vernon, N. Y., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York**
**Application June 1, 1944, Serial No. 538,215**
**6 Claims. (Cl. 85—32)**



1. The combination of a boss or nut member provided with an interior screw threading, and a wire coil insert of a length shorter than said threading and screwed entirely into the threading of said member so that at least a portion of the end convolution of said threading is free from said coil, the end portion of said coil adjacent said end convolution of said threading being provided at its outer periphery with a plurality of teeth-forming recesses and being pressed in radial direction with said teeth into the thread groove portion in which it is embedded so that the radii of its inner periphery are longer than those of the inner periphery of the remainder of the coil.

---

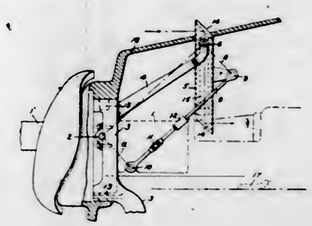
**2,390,515**
**TOOL FOR SECURING INSERTS IN TAPPED HOLES**
**Harkness W. Cram, Mount Vernon, and Erwin Eckener, Bronx, N. Y., assignors to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York**
**Application June 3, 1944, Serial No. 538,590**
**9 Claims. (Cl. 10—1)**



1. A tool for securing a wire coil insert with one of its ends in a tapped hole of a boss or nut member, comprising a tubular body including a first portion of substantially circular cross-section, and a second portion the cross-section of which constitutes a circular ring segment of more than 180°, said second portion being insertable in a coil for which the tool is destined, and fitting substantially the interior of said coil, said tubular body further including a resilient tongue-like portion in connection with and extending longitudinally from the one end of said first portion adjacent said second portion along at least part of said second portion, and transversely so as to substantially cover the gap between the ends of said segmental cross-section, said tongue having a radially oscillatable free end and including, remote from its connected end, a portion of one external thread of a shape and pitch according to the inner threading constituted by said coil, and a wedge member interiorly of said body and guided therein to engage and force the thread-provided tongue portion outward upon movement of said member relatively to said body.

---

**2,390,516**
**GUN SIGHT MOUNTING**
**David J. Crawford, United States Army, Durant, Miss.**
**Application July 11, 1941, Serial No. 401,989**
**1 Claim. (Cl. 89—41)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



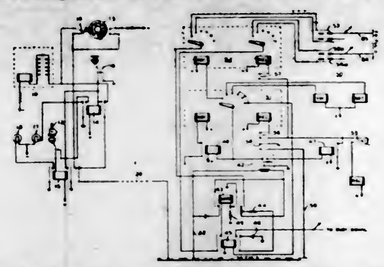
In combination, a support, a gun, a gun cradle mounted on said support upon horizontal and vertical axes for elevation and traverse of the gun, a periscope having the upper end thereof pivotally mounted on a fixed part of said support, a laterally extending bracket on said periscope intermediate the ends thereof, a link connected to said bracket on said periscope and to said gun cradle, and a graduated turnbuckle in said link for adjusting the length thereof, lines drawn through the connecting points on each end of said link and the pivot point of the horizontal axis of said gun and the pivot point of the horizontal axis of said periscope forming a parallelogram whereby the quantitative angular movements of the gun in elevation and depression will be the same as the angular movements of the periscope.

---

**2,390,517**
**MULTIOFFICE TELEGRAPH SYSTEM**
**Frank Leslie Currie, Plainfield, N. J., and Charles F. Stearns, Oceanside, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York**
**Application August 2, 1940, Serial No. 349,716**
**10 Claims. (Cl. 178—2)**

9. A telegraph exchange system comprising two offices, a trunk connecting said offices, a path including said trunk which is normally conductive during idle periods, means for momentarily interrupting the flow of current in said trunk to initiate a call to one of said offices from the other office, switching means at said other office associated with said trunk and means at said one office responsive to said momentary interruption





of the flow of current in said trunk for controlling said switching means.

---

**2,390,518**
**TRIMETHYLETHOXYSILICANE AND ITS PREPARATION**
**William Herbert Daudt, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York**
**No Drawing. Application September 1, 1943, Serial No. 500,855**
**2 Claims. (Cl. 260—462)**

1. The method of making trimethylethoxy silicane which comprises reacting methyl chloride with magnesium and dimethyldiethoxy silicane in ethyl ether, fractionally distilling the reaction product and recovering therefrom trimethylethoxy silicane.

---

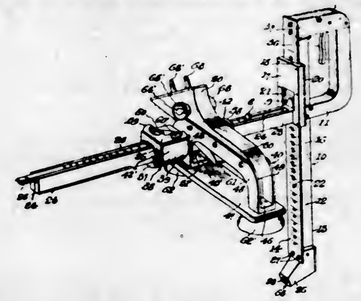
**2,390,519**
**PREPARATION OF ALKYLENE CYANOHYDRINS**
**Harold S. Davis and Bryan C. Redmon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application February 16, 1939, Serial No. 256,676**
**13 Claims. (Cl. 260—464)**

1. A method of making alkylene cyanohydrin which includes the steps of reacting an alkylene oxide and HCN in liquid phase at a temperature greater than 90° C.

---

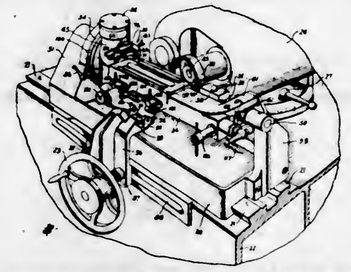
**2,390,520**
**APPARATUS FOR LOCATING FOREIGN BODIES**
**Alfred A. de Lorimier, United States Army, Memphis, Tenn.**
**Application June 21, 1943, Serial No. 491,640**
**5 Claims. (Cl. 33—189)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

4. A device of the class described comprising a leveling slide including an aligning plate having an adjusting handle, means in connection with said plate comprising vacuum cups to effect its attachment to a body, a supporting sleeve mounted upon said aligning plate, level indicators mounted upon said supporting sleeve, clutch members retained within said supporting sleeve, means connected with the handle for operating said clutch members, a horizontal leveling arm slidably mounted between said clutch members, a scale member slidably mounted within said horizontal leveling arm, a vertical slide member provided with a viewing window connected to one end of said horizontal leveling arm, a vertical measuring arm provided with an adjusting handle and slidably mounted within said slide member, a marker foot connected to the lower extremity of said vertical measuring arm, a retractable marker mounted within said foot, and means including a Bowden wire and a bell crank lever contained within said handle and connected with said marker for operating the same.



---

**2,390,521**
**MACHINE FOR SHARPENING CUTTERS**
**Gerard A. De Vlieg, Rockford, Ill.**
**Application November 19, 1942, Serial No. 466,189**
**8 Claims. (Cl. 51—127)**



8. Apparatus for sharpening a rotary cutter having blades extending longitudinally of the rotational axis of the cutter with their cutting faces offset from this axis, said apparatus having, in combination, a rotary cupped grinding wheel, means for supporting said wheel and a cutter for relative movement transversely of said axis in a plane disposed parallel to the cutting face of one of said blades and inclined relative to the axis of said wheel, means for effecting relative movement between said wheel and said supporting means longitudinally of said rotational axis with the cutting edge of one blade engaging the face of said wheel, and means operable during said longitudinal movement to control said transverse movement and sharpen the blade edge to a desired contour.

---

**2,390,522**
**HAND GUARD**
**Peter Jerome Diffley, Springfield, Mass.**
**Application June 12, 1942, Serial No. 446,706**
**1 Claim. (Cl. 42—75)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

In a firearm having a shoulder at the junction of the barrel with the receiver, a gas cylinder

member fixed to the barrel near the muzzle end, and a stock terminating between said shoulder and said gas cylinder member, the improvement comprising a ferrule slidably mounted on the barrel behind said gas cylinder member, a one piece non-metallic handguard arranged to be mounted between said ferrule and said shoulder, said handguard being shaped to surround the top surface of said barrel throughout its length and having a pair of integral, spaced extensions projecting below that portion of the barrel intermediate the stock and the gas cylinder member, the length of said handguard being slightly less



than the distance between said shoulder and the extreme forward position of said ferrule, means for securing the front end of the handguard to said ferrule and means for securing the rear end of said handguard to the barrel, said last-mentioned means permitting limited longitudinal movement of the handguard with respect to the barrel, a metallic band member surrounding said barrel and constructed and arranged to support the forward end of said stock, said handguard having an interior recess therein to accommodate said band member, thereby providing a continuous non-metallic surface between the front and rear end portions of said handguard.

---

**2,390,523**
**NOSE GUARD FOR EYEGLASSES**
**Marcelle D'Orsay, New York, N. Y.**
**Application January 3, 1942, Serial No. 425,490**
**2 Claims. (Cl. 88—48)**

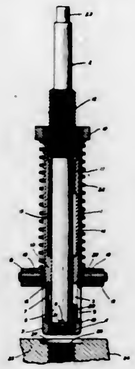


1. A nose guard for eye-glasses comprising a plate secured to the bridge by a stud, two male members of snap-fastener means mounted upon said plate, a detachable pad member consisting of a rubber pad conforming in size and shape to the area of the nose to be contacted and having embedded therein a metal support to which are secured the female members of said snap-fastener means in alignment with said male members, the first named plate conforming in size and shape to the opposed surface of said pad member.

---

**2,390,524**
**INSERT ASSEMBLING TOOL**
**Erwin Eckener, Bronx, N. Y., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York**
**Application May 30, 1944, Serial No. 537,984**
**8 Claims. (Cl. 10—1)**

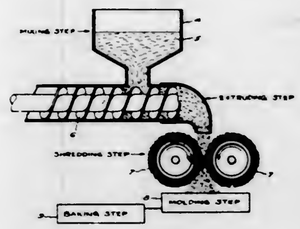
1. A tool of the character described, comprising a tubular member including an internally threaded end portion and an adjacent laterally recessed portion forming a charging chamber to receive therein a wire coil intended to be contracted by passing it through said end portion, said member further including a second internally threaded portion intermediate its other end and said recessed portion, and a rotatable and axially movable rod-like member in coaxial arrangement with said tubular member, said rod-like member including one end projectable through said recessed portion and said first mentioned end portion of said tubular member and adapted to grip the end of a coil from the interior



thereof, another end portion adapted for connection with a reversible drive, and an intermediate portion externally threaded for engagement of said second internal threading, all said threadings being of a pitch according to the tapped threading of the hole of the boss or nut member into which said coil is to be inserted.

---

**2,390,525**
**MOLDING PROCESS AND PRODUCT THEREOF**
**Charles W. Egan, Troy, N. Y.**
**Application July 13, 1944, Serial No. 544,741**
**3 Claims. (Cl. 18—47.5)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

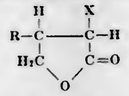



1. As a new article of manufacture, a gas-check pad of the class described arranged to be disposed within the breech-block of a heavy-type weapon comprising, a core member consisting of a compressed baked shredded mass of asbestos fibers and a substantially non-volatile, heat-polymerized oil, said mass being substantially free from volatile solvents, and an enveloping member of substantially flexible material around said core member.



**2,390,526**
**BUTYROLACTONES AND METHODS OF PREPARING THEM**
**Robert C. Elderfield, New York, N. Y., and Elkan R. Blout, Cambridge, Mass., assignors to Eli Lilly and Company, Indianapolis, Ind, a corporation of Indiana**
**No Drawing. Application September 11, 1943, Serial No. 502,022**
**16 Claims. (Cl. 260—239.5)**

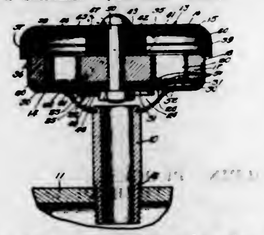
1. An α - halo - β - substituted - butyrolactone which is represented by the following formula:



in which R is a monovalent radical of the group consisting of acyclic and carbocyclic radicals, which radical is linked through a saturated carbon atom of said radical to the β-carbon atom of the butyrolactone nucleus, and X is a halogen selected from the class consisting of chlorine, bromine, and iodine.

---

**2,390,527**
**CHECK VALVE**
**Charles R. Flint, La Porte, Ind., assignor to The De Luxe Products Corporation, a corporation of Indiana**
**Application September 20, 1943, Serial No. 503,031**
**2 Claims. (Cl. 251—119)**



1. A check valve comprising a housing adapted to communicate with an exhaust manifold through the bottom of the housing, said housing comprising a bottom, an inner cover, and an outer cover, each generally cylindrical in form, a valve seat within the housing having a plurality of circumferentially spaced valve openings and forming a bottom chamber with the housing bottom, an accumulator chamber between the valve seat and the inner cover, an annular inlet chamber between the outer cover and the inner cover, baffle means within the accumulator chamber substantially restricting the same, a valve of light weight in the bottom chamber covering the valve openings, and a light wafer spring adjacent the valve and having a plurality of peripheral fingers individually holding the valve in engagement with the valve seat to close the several valve openings.

---

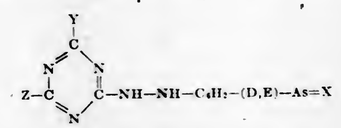
**2,390,528**
**EXTRACTION OF PHOSPHATIDES, FREE FATTY ACIDS, AND THE LIKE FROM GLYCERIDE OILS**
**Stephen E. Freeman, Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania**
**No Drawing. Application May 13, 1940, Serial No. 334,999**
**2 Claims. (Cl. 260—403)**

1. The process of obtaining a fraction rich in phosphatides and a fraction rich in free fatty acids from glyceride oils, which process comprises intimately contacting the oil with furfural approximately saturated with water to obtain a plurality of liquid phases, one consisting of furfural and water containing the free fatty acids and the other consisting primarily of oil with the phosphatides precipitated as a suspension therein, then separating off the phases and separating the phosphatides from the oil.

---

**2,390,529**
**HYDRAZINO-1,3,5-TRIAZINO DERIVATIVES OF SUBSTITUTED PHENYLARSENIC COMPOUNDS**
**Ernst A. H. Friedheim, New York, N. Y.**
**No Drawing. Application February 3, 1942, Serial No. 429,402**
**4 Claims. (Cl. 260—249.5)**

1. A 1,3,5-triazine derivative of the formula



wherein Y and Z are selected from the group consisting of amino, and hydrazino radicals, $C_6$ represents a benzene ring, D and E are selected from the group consisting of H, halogen, —OH, —O—acyl, —O—alkyl, amino and alkyl radicals, and —As=X is selected from the group consisting of $—AsO_3H_2$ and its salts, —AsO, —AsS and —As=(halogen)$_2$ radicals.

---

**2,390,530**
**SYNTHETIC GUM FOR PAINTS AND VARNISHES**
**Howard L. Gerhart, Milwaukee, Wis., and Leon M. Adams, Corpus Christi, Tex., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania**
**No Drawing. Application December 3, 1943, Serial No. 512,771**
**3 Claims. (Cl. 260—23)**

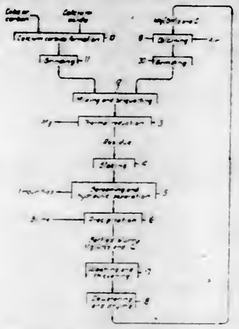
1. A varnish composition comprising a mixture of 40 to 70 percent of drying oil and sufficient resin dissolved therein to constitute 100 percent upon the basis of the mixture of the oil and the resin components, said resin constituting a copolymer of a mixture of 10 to 40 percent of drying oil and 90 to 60 percent of a diene hydrocarbon consisting of 1 to 5 cyclic $C_5H_6$ groups per molecule.

---

**2,390,531**
**PROCESS OF MANUFACTURING METALLIC MAGNESIUM**
**Fritz J. Hansgirg, San Mateo, Calif., assignor to Marine Magnesium Products Corporation, South San Francisco, Calif., a corporation of Delaware**
**Application June 14, 1941, Serial No. 398,124**
**4 Claims. (Cl. 75—67)**

1. In a process for the production of metallic magnesium, the steps of reacting calcium carbide with magnesium oxide at an elevated temperature to effect release of metallic magnesium, leaving a reaction residue including lime, precipitating magnesium hydroxide from a brine containing convertible magnesium salts by re-

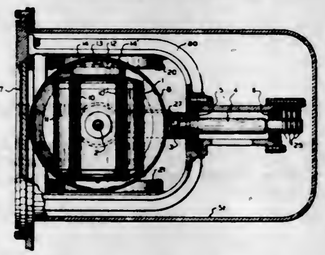
action of said brine with said lime, converting the precipitated magnesium hydroxide to magnesium



oxide, and then utilizing the magnesium oxide for reaction with further calcium carbide as the process proceeds.

---

**2,390,532**
**MAGNETIC ERECTION DEVICE FOR GYROSCOPES**
**Robert Haskins, Jr., Garden City, Orland E. Esval, Huntington, and Robert S. Curry, Jr., Baldwin, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application October 28, 1942, Serial No. 463,714**
**19 Claims. (Cl. 74—5)**

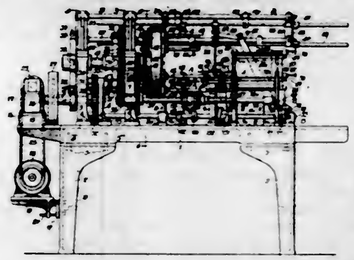


1. Erecting means for gyro verticals having a universally mounted rotor casing, fixed means for creating a magnetic field along an axis of the gyroscope, means for creating a reversible field along an axis normally perpendicular to said first axis for interacting with the first-mentioned field, means for creating a second reversible field along an axis normally perpendicular to both said other axes for also interacting with said first-mentioned field, said last two means being on said casing, and a gravitationally responsive controller responsive to tilt of the gyroscope and connected to excite either of said reversible means in one direction or the other for producing a torque about either of said horizontal axes in either direction to erect the gyroscope.

---

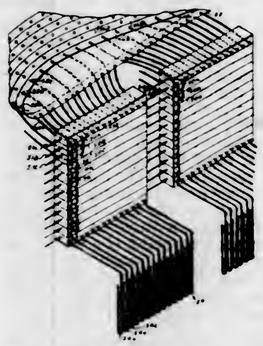
**2,390,533**
**MACHINE FOR THREADING AND CUTTING TUBULAR ARTICLES**
**Frederick W. Hill, Rutherford, N. J., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware**
**Application October 29, 1941, Serial No. 416,977**
**9 Claims. (Cl. 18—1)**

2. In a machine of the character described, a shaft extending longitudinally of the machine, a disk carried by said shaft, spindles spaced around said disk circumferentially of said shaft, each of said spindles being adapted to have a tubular article disposed thereon in a loading position, means comprising a Geneva movement mechanism for intermittently rotating said shaft and disk to move the loaded spindles first to a threading position and then to a cutting position, threading mechanism in said threading position, cutting mechanism in said cutting position, and means comprising a Geneva movement mechanism for simultaneously rotating said spindles and operating said threading and cutting mechanisms, the axes of said Geneva movement mechanisms coinciding with the axis of said shaft and the respective slotted disks of said mechanisms being rotatable in the same directions.



---

**2,390,534**
**APPARATUS FOR DETERMINING PRESSURE DISTRIBUTION ON AIRFOILS AND THE LIKE**
**Herbert M. Heuver, Dayton, Ohio**
**Application November 17, 1944, Serial No. 563,977**
**3 Claims. (Cl. 73—147)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

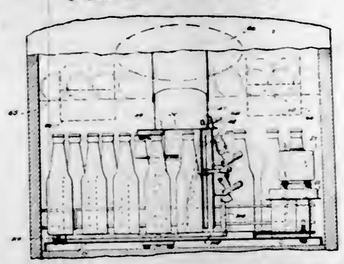


1. For determining the air pressure distribution on the surface of an airfoil or the like, the apparatus which comprises a plurality of manometer tubes, a plurality of valves equal to the number of points on said surface at which the pressure is to be evaluated, said valves being arranged in groups, each group having a number of valves equal to the number of manometer tubes, a plurality of control means equal to the number of groups, each control means being constructed and arranged to operate all the valves of one group simultaneously, conduit means for connecting the manometer tubes to one side of the valves of a group, and conduit means for connecting each of said points to the other side of one of the valves.



---

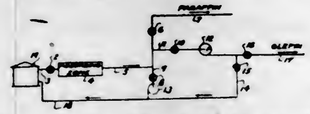
**2,390,535**
**VENDING MACHINE**
**William W. Higham, Marion, Ohio, assignor, by mesne assignments, to International Detrola Corporation, Elkhart, Ind., a corporation of Indiana**
**Application March 23, 1942, Serial No. 435,846**
**6 Claims. (Cl. 194—10)**



3. In a bottle dispensing apparatus having a conveyor for moving bottles, a dispensing station from where the bottles may be removed successively, a rotary electric motor for driving the conveyor, a circuit therefor, a relay in the circuit, a coin controlled switch for energizing the relay to close the motor circuit, a holding circuit closed by the relay to maintain the relay energized for the continued operation of the motor, a switch in the holding circuit, movable means operable by a bottle as said bottle arrives at the delivery station for operating the switch to break the holding circuit of the relay for cessation of the operation of the driving motor, means operable upon removal of the bottle from the delivery station to close the holding circuit across said switch, a controlling solenoid for the coins, a circuit therefor, a switch in the circuit, and means actuated by a bottle in a position in advance of the delivery station to hold the last named switch closed to thereby maintain the solenoid energized to condition the same for the reception of a coin to actuate the coin controlled switch.

---

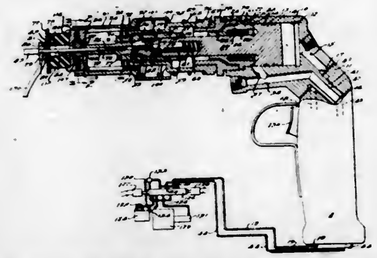
**2,390,536**
**SEPARATION OF HYDROCARBON GASES**
**Eugene J. Houdry, Ardmore, and Richard W. Blue, Swarthmore, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**
**Application July 7, 1942, Serial No. 450,014**
**4 Claims. (Cl. 183—114.2)**



4. The process of separating a butane-butene mixture which comprises charging the mixture to a silica gel until the composition of the effluent gas approaches the composition of the charged mixture, withdrawing initial effluent gas as a high butane product, separately withdrawing and recycling gas thereafter leaving the adsorbent material, discontinuing charging, effecting desorption, withdrawing and recycling initially desorbed mixture, and therafter withdrawing desorbed gas as product butene.

---

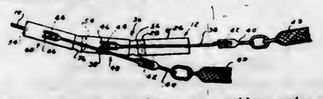
**2,390,537**
**METAL PLATE DIMPLING MACHINE**
**Louis C. Huck, Grosse Pointe Shores, Mich., assignor, by mesne assignments, to Huxon Holding Corporation, Detroit, Mich., a corporation of Michigan**
**Original application August 12, 1940, Serial No. 352,204. Divided and this application May 19, 1943, Serial No. 487,582**
**8 Claims. (Cl. 153—21)**



3. An apparatus for forming a dimple around an opening in metal sheets comprising a tubular casing, pin gripping means axially movable in the casing, a tool projecting from one end of the casing and terminating in a frusto-conically shaped end adapted to press the sheets at one side, said tool having a central bore and being aligned with the pin gripping means so that a pin may be pushed through the tool and engaged by the pin gripping means, a die member to be disposed at the other side of the sheets and having a pin adapted to project through said opening in the latter and through said bore for engagement with said gripping means, means for relatively moving the gripping means and tool axially of the casing so as to bring the tool and die into sheet dimpling positions and for returning the gripping means and tool to inoperative positions, an axially movable tubular member on the casing and through which the tool extends, and a resilient rubber bushing fastened on the outer end of the axially movable member and including an annular washer of relatively hard material on the end of the bushing and forming a part thereof.

---

**2,390,538**
**TOW TARGET RELEASING DEVICE**
**Le Roy S. Jessen, Dayton, Ohio**
**Application October 6, 1944, Serial No. 557,538**
**5 Claims. (Cl. 273—105.3)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

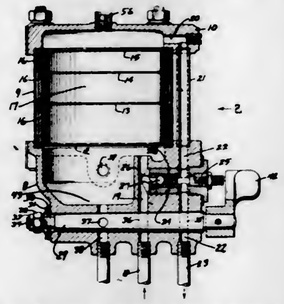


1. For use in releasably connecting a tow target to the free end of a tow cable so that it may be released by impact of a weight sent rearward on the tow cable, the improvement which consists of a target retainer carried on the rear end of said cable, an anchor secured to said target, said anchor comprising two curved arms hinged to-

gether and secured to the target at one end, the curved arms extending around the retainer beyond its forward end, an anchor-release in two parts adjacent the forward end of said retainer and hinged one part to each arm at the forward ends of the arms, and a latch associated with said anchor-release, said latch comprising engaging means on the one part, engaging means on the other part for engaging the first said engaging means to latch the two parts of the anchor-release together, and a latch operating part at the forward end of said anchor-release, adapted to be engaged by said weight to disengage said latch, whereby said target is released from said cable.

---

**2,390,539**
**OIL FILTER**
**Morris Katcher, New York, N. Y.**
**Application June 19, 1943, Serial No. 491,454**
**9 Claims. (Cl. 210—185)**



1. An oil filtering device comprising a housing enclosing a chamber, means in the chamber for filtering the oil on its way through, said chamber having an inlet for receiving the oil on one side of the filtering means from the pressure side of a lubricating system, an outlet from the chamber to the lubricating system on the opposite side of the filtering means for the discharge of the oil after having passed through the filtering means, a duct connecting the outlet and inlet for bypassing the oil from the pressure side of the lubricating system to the outlet before passing to said opposite side of the filtering means, a valve for the duct having a movable part and a spring, said spring normally causing the movable part to set in position to prevent bypassing of oil through the duct during the filtering of the oil, said part moving against the pressure of the spring to set in position to open up the duct for the flow of oil through it to the outlet when the pressure in the chamber exceeds a predetermined amount due to the clogging of the filtering means, and detent mechanism releasably holding the movable part in fixed open position regardless of further fluctuations of pressure in the chamber, once said part has been actuated to set in open position.

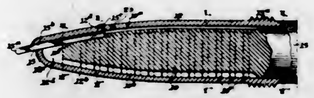
---

**2,390,540**
**RECOVERY OF COPPER FROM COPPER-BEARING SOLUTIONS**
**Cornelius H. Keller, San Francisco, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application October 5, 1944, Serial No. 557,383**
**8 Claims. (Cl. 23—147)**

5. The method of extracting copper from a copper ore containing acid-soluble copper values which comprises leaching the ore with acid, treating the copper-bearing leach solution with a reducing agent to reduce cupric compounds to cuprous compounds, adding a water-soluble thiocyanate to precipitate cuprous thiocyanate from the solution, separating the precipitate, treating the latter with an aqueous alkali to convert cuprous thiocyanate to cuprous oxide and a solution of a water-soluble thiocyanate for reuse and separating the insoluble residue containing cuprous oxide from the aqueous solution.

---

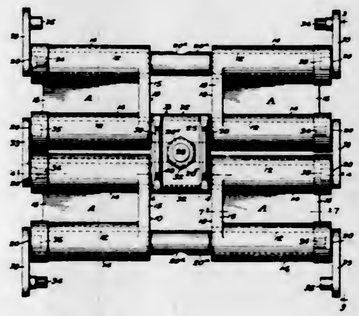
**2,390,541**
**WRITING IMPLEMENT**
**Henry C. Klagges, Collingswood, N. J., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey**
**Application March 16, 1943, Serial No. 479,305**
**15 Claims. (Cl. 120—52)**



1. In a writing implement, the combination with the barrel of a fountain pen, of an open-ended tubular member in engagement with the end of the same, a feed-bar snugly fitting within the tubular member and conforming throughout with the contour of the same, and a section of metal carried by the feed-bar and projecting through the end of the tubular member in position to serve as a writing point.

---

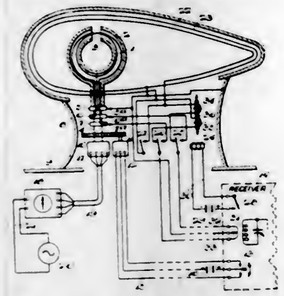
**2,390,542**
**TRACK SHOE**
**Harry A. Knox, Washington, D. C.**
**Application December 1, 1941, Serial No. 421,169**
**7 Claims. (Cl. 305—10)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



7. A connecting link for adjoining shoes of a track laying vehicle comprising: a bar, two cylindrical projections on the bar, and a thread on one projection cooperable with a threaded hole in one of the track shoes to hold the bar in position in relation to both shoes.



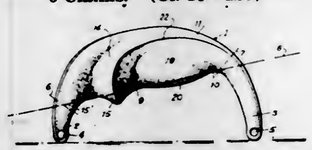
**2,390,543**
**DIRECTIONAL ANTENNA SYSTEM**
**Paul H. Kreager, Stoneleigh, Md., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware**
**Original application December 12, 1941, Serial No. 422,627. Divided and this application August 17, 1943, Serial No. 498,957**
**8 Claims. (Cl. 250—11)**



1. In radio direction finding apparatus subject to quadrantal error, a radio receiver, a directional antenna, quadrantal error correcting means situated adjacent said directional antenna, switching means for optionally connecting said directional antenna or said quadrantal error correcting means as a source of energy to the input circuit of said receiver, and means for maintaining the source impedance as viewed from the receiver input circuit the same when said directional antenna is connected to said receiver and when said quadrantal error correcting means is connected to said receiver.

---

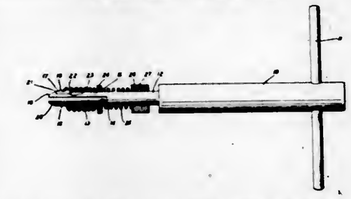
**2,390,544**
**HANDLE**
**Thomas Lamb, New York, N. Y.**
**Application January 1, 1944, Serial No. 516,729**
**6 Claims. (Cl. 16—126)**



5. A handle for an article, said handle having a smoothly curved slightly convex upper surface adapted to engage the heel of the hand, the forward end of said surface being divided by a wedge shaped partition to form two diverging surfaces curving forwardly and downwardly and adapted to engage the thumb and forefinger, and a curved transverse surface below the lower forward ends of said diverging surfaces joining the spaced ends of said diverging surfaces in rather abrupt curves and adapted to engage the end of the forefinger, said handle having smoothly curved slightly convex side surfaces extending downwardly and inwardly and meeting to form a bottom surface, said side and bottom surfaces being adapted to engage the palm of the hand and the last three fingers, said side surfaces being separated from said diverging surfaces by ridges extending forwardly and downwardly, and said bottom surface being separated from said transverse surface by a ridge joining and connecting said first named ridges.

---

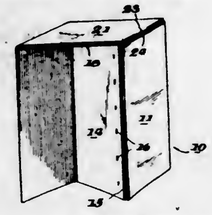
**2,390,545**
**INSERTING TOOL FOR TANGLESS INSERTS**
**Eugene M. Lang, New York, N. Y., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York**
**Application September 23, 1944, Serial No. 555,469**
**6 Claims. (Cl. 10—1)**



1. A tool of the type described for contracting a wire coil, comprising a rod-like member including a forward gripping end substantially of a diameter according to the inner diameter to which said coil is to be contracted, said forward end being longitudinally slitted so as to form resilient prongs, one of said prongs including, near its forward end, a lateral projection adapted to engage a recess in the inner side of an end convolution of the coil the tool is intended to contract, and the free forward ends of said prongs being slightly tapered on their outsides, so that upon insertion of the tool into said coil from the non-recessed end of the latter said prongs will be compressed, and said projection when having passed the coil convolution adjacent the recessed coil end may spring into said recess.

---

**2,390,546**
**STOOL**
**Glenn Mather, New York, N. Y.**
**Application July 22, 1942, Serial No. 451,916**
**4 Claims. (Cl. 155—149)**



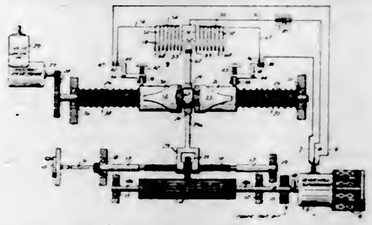
1. A foldable stool or the like, comprising a pedestal having opposite end walls of stiff sheet material, substantially V-shaped side walls of stiff sheet material hingedly united with the end walls, said side walls having ridge portions extending toward one another, and superposed seat flaps hingedly united with the upper ends of the end walls and resting on the upper edges of the side walls, said ridges being substantially vertically arranged beneath the central portion of the seat flaps.

---

**2,390,547**
**TORQUE AMPLIFIER**
**Howard M. McCoy, Fairfield, Ohio**
**Application July 8, 1944, Serial No. 544,129**
**2 Claims. (Cl. 172—239)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

2. A torque amplifier comprising, in combination, a reversible electric servomotor; a power

take-off actuated by the servomotor; an elongated gear directly driven by the servomotor; a second gear meshing with the elongated gear; a screw-threaded shaft with which the second gear engages by means of screw threads; an operator-controlled mechanism for turning the screw-threaded shaft thereby to adjust the position of the second gear thereon; the second gear remaining in mesh with the elongated gear whatever its adjustment; a motor circuit including contacts for governing the direction of rotation of the servomotor; an arm moved by the second gear and hence adjustable by the operator, and adapt-



ed to close the motor circuit through said contacts to effect rotation of the servomotor in one direction or the other; a pair of cams, one on either side of the arm; a shaft on which the cams are splined; a constant speed motor; mechanical connections between the constant speed motor and the splined shaft so that the cams are constantly driven at a reduced rate of speed; cam followers respectively actuated by the cams and in turn closing the respective contacts to actuate the servomotor in one direction or the other; and springs acting to center the cams on the splined shaft, said cams being so constructed that when centered the cam followers are not actuated.

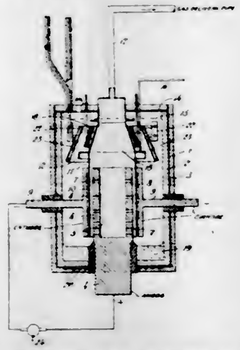
---

**2,390,548**

## METHOD OF OPERATING ELECTROLYTIC CELLS

**Robert J. McNitt, Perth Amboy, N. J.**

**Application October 15, 1941, Serial No. 415,092**
**3 Claims. (Cl. 204—68)**



1. In the operation of a plurality of electrolytic cells in a series electric circuit in the electrolysis of fused salt baths in which each cell has an anode with a portion of the active surface thereof near the bottom of the cell and heat conducting means extending through the cell to the outside through which there is a loss of heat from the anode, the improvement which comprises supplying all the cells of the series circuit with such low series electric current that insufficient heat is generated to maintain the lower active portions of the anodes of all the cells free of frozen electrolyte with the result that the lower portion of the anode of at least one cell becomes covered with frozen electrolyte due to a loss of heat from the anode, applying a supplemental electric current to any cell of the series circuit which has electrolyte frozen on the lower active anode surface until the frozen electrolyte has melted, and then discontinuing the supplemental electric current while continuing to operate all the cells with the low electric current.

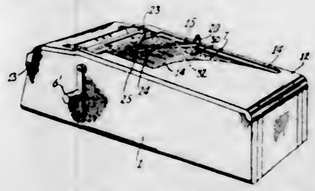
---

**2,390,549**

## RECORDING APPARATUS AND METHOD

**Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio**

**Application April 29, 1942, Serial No. 441,000**
**28 Claims. (Cl. 282—11.5)**



1. A recording apparatus for manifold copies, including a cabinet to contain a supply portion of plural record strips, means for advancing plural strips into superposed record receiving relation with transfer material interposed therebetween, a pair of spaced pivotal arms interconnected for unison movement extending above and beneath the record receiving portions of the record strips and interleaved portions of transfer material, a shiftable mount for the spaced arms by the combined motion of which with the pivotal motion of the arms the extremities of the latter are enabled to reach every part of the record receiving area of the portions of the superposed strips presented in record receiving position, tracer members carried by the respective spaced arms and engaging simultaneously the opposite sides of the record receiving positions of the superposed strips in registering relation with each other, the construction and arrangement being such that the inscribing pressure of one of the tracers is transmitted through the record receiving area of the superposed strips and resisted by the opposing tracer member, the reaction of which is exerted against the corresponding side of the record receiving area of the record strips to produce thereon an inscription in reverse of that produced upon the opposite side of the record receiving area of the strips under a single application of pressure.

---

**2,390,550**

## APPARATUS FOR SEALING CONTAINERS

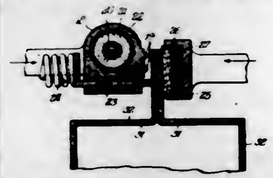
**George Arlington Moore, New York, N. Y., assignor to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware**

**Application August 4, 1941, Serial No. 405,436**
**1 Claim. (Cl. 154—42)**

In a heat-sealing device for hermetically sealing together opposed thermoplastic faces of container openings after said containers have been



filled with a food product, or the like, the improvement comprising a sealing mechanism including at least two sealing irons, one of which is a final sealing iron and the other of which is an initial sealing iron resiliently mounted at one of its ends to said final sealing iron and adapted to operate in advance thereof, each of said irons thus being cooperatively connected to each other to function in succession, the final sealing iron operating substantially immediately after the ini-



tial sealing iron thereby to provide initial and final seals for said container opening, the other end of the initial sealing iron being slidably mounted within a portion of said final sealing iron and in contact therewith at spaced apart intervals to provide fluid cooling chambers for said initial sealing iron, said final sealing iron being adapted to be heated for high temperature sealing operation, and the initial sealing iron being adapted to be heated by association with the final sealing iron.

---

**2,390,551**

## UNSATURATED ESTER-AMIDES

**Irving E. Muskat, Glenside, Pa., and Franklin Strain, Norton Center, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa, a corporation of Pennsylvania**

**No Drawing. Application July 10, 1943,**
**Serial No. 494,264**
**7 Claims. (Cl. 260—463)**

1. A neutral ester-amide of A an amino-hydroxy substituted hydrocarbon and B a half ester of carbonic acid and a monohydric alcohol having the hydroxy group attached to a carbon atom in a straight chain and an unsaturated linkage between the second and the third chain carbon atom.

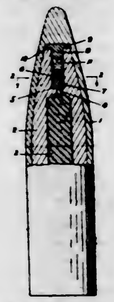
---

**2,390,552**

## EXPLOSIVE BULLET

**Richard N. Nelson, Black River Falls, Wis.**

**Application August 18, 1941, Serial No. 407,297**
**1 Claim. (Cl. 102—56)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



A bullet comprising a hollow core, a main charge in said core, a jacket enveloping said core and terminating at its forward end in a solid nose separated from the end of the core, said core having an axial bore in its forward end forming a priming chamber, a priming charge in said chamber, said chamber having a restricted passage communicating directly with the main charge, the restricted passage having a shoulder adjacent its forward end, a firing pin normally seated on said shoulder and extending into the priming charge, fusible means holding the firing pin seated until after firing, said means adapted to be sufficiently melted by the firing of the bullet to release said firing pin to arm the bullet, an anvil filling the space between the front end of the core and the nose of the jacket and having a portion extending into the priming chamber against which the firing pin crushes the priming charge upon impact of the bullet to ignite the priming charge.

---

**2,390,553**

## METHOD OF MAKING TAPERED PAILS

**John A. Pittner, West View, Pa., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y., a corporation of New York**

**Application May 7, 1943, Serial No. 485,983**
**4 Claims. (Cl. 43—120)**



1. The method which comprises rolling a blank of sheet material to cylindrical form with the ends of the blank overlapping, welding said overlapping ends together to form a seam extending lengthwise of the cylinder, curling a portion of the rim of the cylinder which extends across the seam at one end of the cylinder, and applying an expanding force within the cylinder at said end by which the rim portion at said end is stretched and its diameter increased, and by which said curled portion is uncurled.

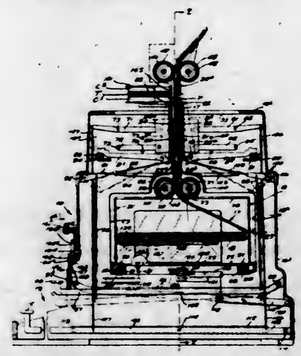
---

**2,390,554**

## TYPEWRITING AND MANIFOLDING

**Stephen Haines Pium, II, Madison, N. J.**

**Application February 23, 1940, Serial No. 320,398**
**14 Claims. (Cl. 197—126)**



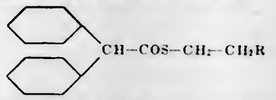
9. An apparatus for typewriting or manifolding comprising two type elements, one having a type

formation that is the inverse of the symbol it is to reproduce and the other having a type formation that is a facsimile of the same symbol, means mounting said two type elements for relative movement so that one of them approaches the other with said type formations in alinement, and means for supporting a single batch of sheets with interposed transfer media between said two type elements and in a position to be compressed, upon said relative movement of said inverse and facsimile formations, thereby and therebetween

---

**2,390,555**
**ANTISPASMODIC AGENTS**
**Andrew G. Richardson, Richmond, Va., assignor to William P. Poythress & Company, Inc., Richmond, Va., a corporation of Virginia**
**No Drawing. Application August 3, 1943, Serial No. 497,263**
**4 Claims. (Cl. 260—239)**

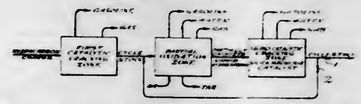
1. A di-N-substituted aminoethyl ester of diphenylthioacetic acid of the formula




in which R represents a disubstituted amino radical of the group consisting of the diethylamino group, the morpholino group and the piperidino group.

---

**2,390,556**
**CATALYTIC CRACKING OF PARTIALLY OXIDIZED HYDROCARBONS**
**Robert F. Ruthruff, Chicago, Ill.**
**Application July 7, 1941, Serial No. 401,329**
**34 Claims. (Cl. 196—49)**

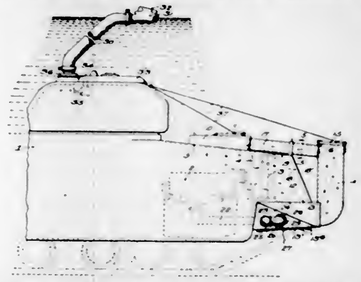


1. A method of converting hydrocarbons of higher boiling point into hydrocarbons of lower boiling point comprising admixing said hydrocarbons of higher boiling point with air, maintaining the resulting mixture at an oxidizing temperature for a time sufficient to effect substantial partial oxidation of said hydrocarbons of higher boiling point, separating the resulting partially oxidized liquid hydrocarbons from materials boiling within and below the usual motor fuel range and contacting said partially oxidized liquid hydrocarbons with a silica-magnesia cracking catalyst at a cracking temperature for a time sufficient to effect substantial conversion of said partially oxidized liquid hydrocarbons to hydrocarbons of lower boiling point.

---

**2,390,557**
**WATERPROOFED COMBAT VEHICLE**
**Arthur J. Scaife, Detroit, Mich.**
**Application March 15, 1944, Serial No. 526,623**
**3 Claims. (Cl. 180—1)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

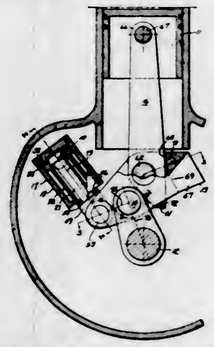
1. In a vehicle having an air opening in its top, a motor beneath said opening, a radiator adjacent to said motor, a fan driven by said motor and directed towards said radiator, an air duct over the face of said radiator and having an outlet below the radiator, a conduit extending upwardly from said outlet, a box mounted over



and enclosing said opening, and spaced ducts connecting said conduit to said box and disposed outside of the vehicle.

---

**2,390,558**
**ENGINE CRANKSHAFT TO PISTON CONNECTING MECHANISM**
**Edward H. Schoen, Honolulu, Territory of Hawaii**
**Application March 7, 1944, Serial No. 525,400**
**14 Claims. (Cl. 123—197)**



1. In a mechanism for connecting the piston connecting rod to the crank shaft throw of an internal combustion engine, the combination of a lever journalled on said throw and pivotally connected to said connecting rod, a link member pivotally secured at one end about a fixed axis and pivotally connected at its other end to said lever and formed to freely expand and contract its length between said ends within fixed limits of expansion and contraction, and means functioning through a portion of the cyclic movement of said connecting rod and lever to hold the same against relative rotation.

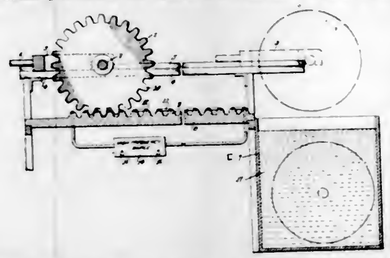
---

**2,390,559**
**APPARATUS FOR SELECTIVE HEAT TREATMENT OF METAL**
**Vernon W. Sherman, Summit, N. J., assignor to Federal Telephone & Radio Corporation, New York, N. Y., a corporation of Delaware**
**Application February 25, 1943, Serial No. 477,084**
**14 Claims. (Cl. 219—13)**

3. Means for heat treating a metal wheel having toothed portions in the periphery thereof,



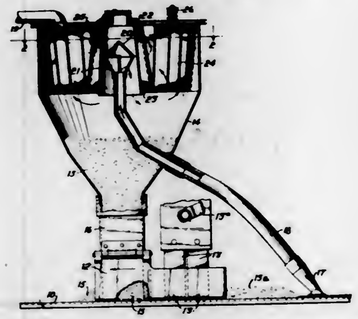
said means including a movable support for the wheel, a high frequency electric current conductor having active sections positioned to act upon opposite faces of each tooth forming part of said portions in spaced relation to the wheel,



a support for the conductor of heat resisting electrical insulating material and formed for indexing engaging with the wheel and said supports being arranged for relative movement to permit heat treating of all of said engaging surface portions in a continuous operation.

---

**2,390,560**
**FLUX RETRIEVER**
**Sidney J. Stanley and Jason E. Welch, Sr., Turtletown, Tenn.**
**Application May 28, 1943, Serial No. 488,948**
**1 Claim. (Cl. 219—8)**

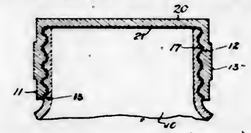


In an electrical welding apparatus including a mechanism for feeding a metallic electrode toward metal work for welding, feeding means for supplying flux material to the metal work, said feeding means including a closed internally unrestricted flux hopper having a gravity feed pipe leading from the bottom thereof to the work, a recovery pipe leading from the work to the top of the hopper, and means for producing a vacuum within the hopper sufficient to reclaim material through the recovery pipe without interfering with the feed of flux through the gravity feed pipe.

---

**2,390,561**
**SEALING CONTAINER**
**Julian P. Staples, Mount Lebanon, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania**
**Application June 27, 1942, Serial No. 448,746**
**2 Claims. (Cl. 215—43)**

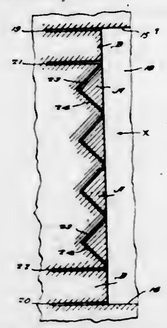
1. The combination comprising a glass container formed with a tubular mouth element having a set of screw threads, a closure element for the mouth element, the closure element having a set of screw threads mating with the threads of the mouth element, one element constituting an internal part, the other an external part, the internal part being sufficiently smaller than the external part to leave a space between contiguous surfaces of the two, a sealing layer of cellular



plastic containing about 30 to 75 percent of voids bonded to one of the sets of screw threads and being non-adherent with respect to the other set, said sealing layer when uncompressed being thicker than the space between said parts but being of a sufficiently cellular structure to permit it to yield to conform to the dimensions of the space to provide a seal when the closure element is screwed in place.

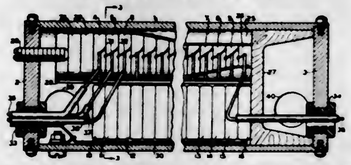
---

**2,390,562**
**METHOD OF MINING COAL**
**Kindred L. Storrs, Salt Lake City, Utah**
**Application January 3, 1944, Serial No. 516,805**
**3 Claims. (Cl. 262—1)**



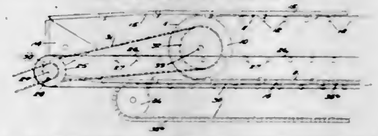
1. A method of mining which consists in cutting spaced vertical kerfs in a mine vein, then cutting horizontal kerfs in the vein that connect the vertical kerfs respectively at the roof and floor lines, then cutting other horizontal kerfs in the vein that connect the vertical kerfs respectively adjacent but below the roof line and adjacent but above the floor line, then cutting a series of forwardly converging oppositely inclined pairs of kerfs in the vein between the second-named horizontal kerfs so that the kerfs of the inclined pairs intersect each other and connect the vertical kerfs to completely free blocks from the vein, then extending all of the kerfs further into the vein until certain of the inclined kerfs intersect again and other intersect the second-named horizontal kerfs to completely free additional blocks from the vein, then extending further into the vein pairs of inclined kerfs which are midway between the roof and floor lines so as to completely free still further blocks from the vein, and then cutting kerfs in the vein parallel with the face so as to connect the vertical kerfs and completely free more blocks from the vein above and below said still further blocks up to the roof line and down to the floor line.

**2,390,563**
**ELECTRICAL TIME DELAY LINE**
**Gerald L. Tawney, Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application October 14, 1941, Serial No. 414,928**
**2 Claims. (Cl. 178—44)**



1. An electrical delay line embodying a substantially uniform network comprising a plurality of series-connected inductances each comprising an open-ended shielding core and a coil positioned therein, means for holding said cores in a row, whereby the open end of one core is closed by the closed end of the succeeding core, the wall thicknesses of said cores being chosen to provide a coupling coefficient between adjacent coils of a value between .35 and .40, and a coupling coefficient between alternate coils of the order of .02 to .06, and a plurality of capacitative shunt elements substantially uniformly distributed along said line.

**2,390,564**
**MOLDING MACHINE**
**Roy B. Tedrow, San Francisco, Calif.**
**Application March 3, 1943, Serial No. 477,832**
**14 Claims. (Cl. 25—99)**



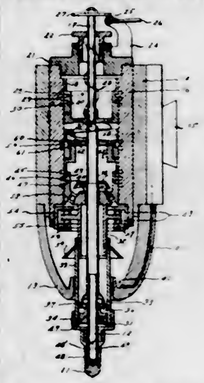
1. In a machine of the character described, an elongated frame, a pulley journaled at each end of the frame, an endless belt carried by said pulleys and forming a bottom of a series of molds, a plurality of hingedly connected side bars disposed on each side of the belt, said bars forming a pair of endless chains and also forming the sides of the molds, pairs of sprocket gears journaled at each end of the frame and supporting the endless chains, cross-bars inserted between the side bars to form the ends of a series of molds, and means forming an interlock between the belt and the side bars of the endless chains.

**2,390,565**
**GARMENT PROTECTOR**
**Daniel Topjian, Watertown, Mass., assignor, by mesne assignments, to himself, as trustee**
**Application September 29, 1942, Serial No. 460,073**
**6 Claims. (Cl. 2—53)**

1. A protective shield for use in the arm-scye of a garment, said shield comprising a pair of substantially lune-shaped wings flexibly united along their concavely curved edges, each wing being constructed and arranged to constitute a pocket for the reception of a removable absorbent pad, each wing having an inner wall of a material which is resistant to the passage of moisture and an outer wall of open mesh textile material having little or no capacity for absorbing moisture, the inner wall being so constructed and arranged as to provide free overlapping portions defining an opening giving access to the pocket, and a removable leaf-like pad of absorbent material disposed in each pocket, each pad containing a substance including benzoic acid and boric acid operative to inhibit the evolution of disagreeable odors from absorbed perspiration.



**2,390,566**
**PROFILING AND CONTOURING TRACER MECHANISM, HYDRAULIC CONNECTIONS AND DIRECTIONAL CONTROL**
**Manuel Turchan and Curtis Walker, Dearborn, Mich.**
**Application November 18, 1940, Serial No. 366,082**
**15 Claims. (Cl. 90—13.5)**



1. The combination with a cutter and work support relatively movable axially and transversely in two directions at right angles; of a tracer mechanism engageable with a pattern for controlling relative axial movements and transverse movement in one direction of said work table and cutter; a constant fluid pressure source controlling relative movement in a second transverse direction, a safety exhaust mechanism within said tracer for limiting relative movement in said second direction; and a directional control valve for regulating said relative transverse movements, and adapted to reverse tracer control from one relative transverse movement to the other, and change the constant fluid pressure source from one transverse movement to the other, and at the same time reversing said safety mechanism from one transverse movement to the other.

**2,390,567**
**METHOD OF MAKING COLD SHAPED POLYMERIZED ARTICLES**
**William Ewart Williams, Pasadena, Calif.**
**Application March 13, 1943, Serial No. 479,052**
**6 Claims. (Cl. 18—56)**

1. The process of forming an article of polymeric methyl methacrylate comprising treating said polymeric methyl methacrylate under controlled temperatures for controlled times with hydrogen peroxide having a concentration of approximately ninety-five percent in the absence of heating until said polymeric methyl methacrylate reaches a desired degree of softness, shaping said methyl methacrylate without heating, to a desired form, and thereafter removing the hydrogen peroxide from the methyl methacrylate by evaporation.



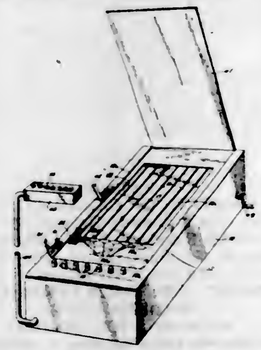


**2,390,568**
**FASTENING MEANS FOR COMPACTS, REFILLS, CONTAINERS, AND THE LIKE**
**Edith R. Witherspoon, Englewood, N. J.**
**Original application November 13, 1936, Serial No. 110,573. Divided and this application April 11, 1942, Serial No. 438,605**
**1 Claim. (Cl. 132—82)**



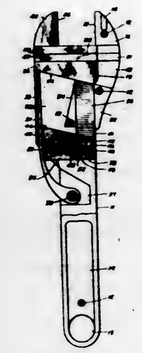
A compact comprising a circular casing having a bottom and a diametrically positioned metallic tongue attached at one end only flat against the inner surface of said bottom and extending from the line of attachment to a point beyond the center thereof and a flat circular refill having a base plate with a cooperaitng tongue similarly attached flat against the bottom surface thereof and detachably engaging underneath the tongue of the casing when the refill is disposed in the operative position within the casing, said cooperating tongue being tapered and having a curved edge lying against said line of attachment.

**2,390,569**
**APPARATUS FOR DETECTING TRENDS IN OBSERVED DATA**
**Herbert Ziebolz, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois**
**Application March 24, 1942, Serial No. 436,020**
**13 Claims. (Cl. 116—135)**



1. Indicating apparatus comprising, in combination, a tabulating machine having a chart face presenting a plurality of parallel slots; indicating fingers having heads projecting through said slots and exposed on the chart face; screw threaded shafts connected to operate said indicating fingers to moye them in said slots; a push button and ratchet member connected to each of said screw threaded shafts to actuate the same; clutch members for disconnecting the push buttons from the shafts; and means to rotate all of the shafts when disconnected from said push buttons.

**2,390,570**
**GRIPPING TOOL**
**John B. Zimdars, San Francisco, Calif.**
**Application October 12, 1942, Serial No. 461,805**
**13 Claims. (Cl. 81—151)**

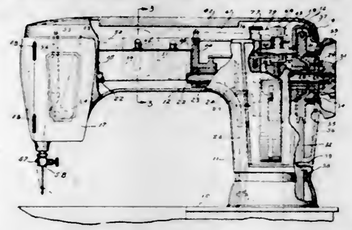


1. In a gripping tool of the character described, a tool body, an adjustable jaw support comprising a jaw base movable on the tool body to carry a jaw thereon to adjusted positions, a wedge member on the tool body opposite the jaw base, the edges of said wedge member and of said jaw base facing one another and being inclined at substantially parallel angles, an element held between said inclined edges of said wedge member and said jaw base in compression and being reciprocable so as to transmit forces from the jaw face to the wedge at such angle as to prevent movement of said jaw from its adjusted position, means to simultaneously adjust the jaw base, and said element on and by the wedge so as to move the jaw to selected openings, means to maintain said element in constant contacting relation with said inclined edges of said jaw base and said wedge member, and means to guide the jaw base so as to hold the jaw gripping face at a constant angle in all of its adjusted positions.

**2,390,571**
**SEWING MACHINE ARM**
**Charles E. Colegrove, Lakewood, Ohio, assignor to Sears, Roebuck and Company, Chicago, Ill., a corporation of New York**
**Application April 27, 1944, Serial No. 532,987**
**15 Claims. (Cl. 112—258)**

1. In a sewing machine, an arm bracket having a vertical portion and a horizontal portion the free end of which mounts the needle bar, take-up and tension device, said horizontal por-

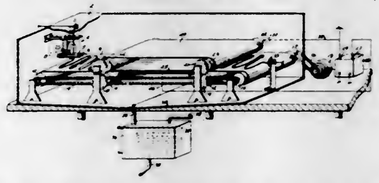
tion being provided with a cavity therein, a closure for said cavity, and means in said cavity and



upon which a spool of thread may be mounted, housed and concealed within said horizontal portion.

---

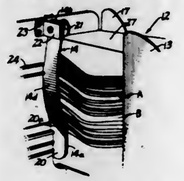
**2,390,572**
**DEVICE FOR TREATING FILAMENTARY MATERIAL**
**Camiel de Brabander, Newport, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application April 10, 1942, Serial No. 438,420**
**15 Claims. (Cl. 19—66)**



7. An apparatus for treating filamentary material comprising a pair of substantially parallel sheet electrodes arranged with their opposed surfaces in close juxtaposition, means for imparting a high frequency electric current to the electrodes, vapor-permeable means comprising at least one insulating belt for continuously moving filamentary material between the electrodes, said moving means being arranged substantially parallel to and between the electrodes to protect the filamentary material from sliding engagement with the electrodes during said motion, one of said electrodes being arranged to press against said insulating belt.

---

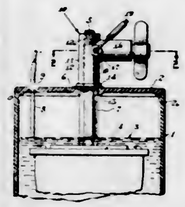
**2,390,573**
**ENVELOPE HOPPER FOR MAIL TREATING MACHINES**
**Robert A. Dohl and Edward G. Ziegelhoefer, Rochester, N. Y., assignors to Commercial Controls Corporation, a corporation of Delaware**
**Application April 22, 1943, Serial No. 484,042**
**7 Claims. (Cl. 271—61)**



1. An envelope hopper for a mail treating machine or the like, in combination, front and side plates forming three sides of the hopper, means forming a bottom for the hopper, and a resilient member forming the fourth side of said hopper and against which the flap edges of the envelopes rest and adapted to bow between its ends to accommodate the nested flaps of a stack of envelopes in said hopper.

---

**2,390,574**
**PRIMARY BATTERY**
**Le Roy S. Dunham, East Orange, and Hubert M. Teague, Bloomfield, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey**
**Application March 22, 1944, Serial No. 527,579**
**11 Claims. (Cl. 136—102)**



7. In a primary battery having a replaceable electrode assembly provided with a suspension bolt adapted to project through and be secured to an apertured cover of the battery container: a connector device comprising a frame member having a body portion adapted for threaded engagement with the portion of the bolt extending above the cover; a lead-wire-clamping means comprising a clamping member mounted on said frame member for transverse movement toward and away from an exposed threaded portion of said bolt; and hand-operable threaded means cooperating with said clamping member for exerting pressure on the latter whereby to press a lead wire into engagement with said threaded portion of said bolt.

---

**2,390,575**
**STABILIZED SOLUTIONS OF ERGOT ALKALOIDAL SALTS**
**Clair S. Dyas, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware**
**No Drawing. Application May 1, 1944, Serial No. 533,665**
**7 Claims. (Cl. 167—67)**

1. A stable therapeutically active aqueous solution of ergot alkaloids which comprises water, water-soluble organic acid salts of the alkaloids of ergot, and thiourea.

---

**2,390,576**
**PREPARATION OF CARBOXYLIC ACIDS**
**Mark W. Farlow and Gerald M. Whitman, Brandywine Hundred, Del., assignors to E. I du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application February 22, 1944, Serial No. 523,484**
**4 Claims. (Cl. 260—530)**

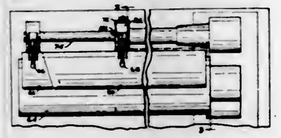
1. The process for obtaining a carboxylic acid, which comprises contacting a carbonyl compound, containing at least one hydrogen atom attached to a carbon atom adjacent to the carbon atom, with carbon dioxide and water in the presence of a chromite of a hydrogenating metal whose oxide is difficulty reducible, at an elevated temperature within the range of from 100° C. to 450° C. and at a pressure in excess of atmospheric pressure.

3. The process for obtaining a dicarboxylic acid which comprises admixing, at a temperature within the range of from 100° C. to 450° C. and under superatmospheric pressure, water, carbon dioxide, an alicyclic ketone and from 1% to 10% based on the weight of the ketone of a chromite of a hydrogenating metal whose oxide is difficultly reducible, the molar ratio of carbon dioxide to carbonyl compound being at least 1:1 and the molar ratio of water to carbonyl compound being at least 1:1.

---



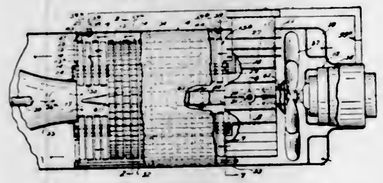
**2,390,577**
**DOMESTIC APPLIANCE**
**Donald K. Ferris, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application August 1, 1942, Serial No. 453,224**
**9 Claims. (Cl. 38—65)**



1. An ironing machine comprising a movable ironing member, a first shoe and a second shoe to cooperate with said ironing member, control means for disconnecting one of said shoes from cooperation with said ironing member, a first heating means in said first shoe, a second heating means in said second shoe, and means operated by said control means deenergizing one of said heating means without deenergizing the other of said heating means when said control means disconnects one of said shoes.

---

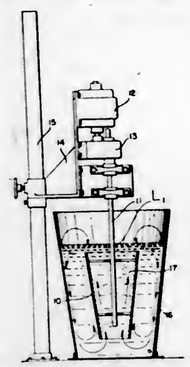
**2,390,578**
**THERMOELECTRIC GENERATOR**
**Howard J. Findley, Shaker Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application April 1, 1943, Serial No. 481,450**
**7 Claims. (Cl. 136—4)**



1. In a thermoelectric generator, a heating chamber comprising a series of substantially coaxially disposed contiguous refractory rings having grooves extending generally radially thereacross, and a plurality of thermocouples extending into the heating chamber through said grooves, said thermocouples being made of ribbon-like material and being held by said grooves so that the ribbon-like material is disposed in edgewise relation to the longitudinal axis of said heating chamber.



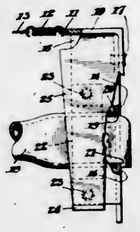
**2,390,579**
**STIRRING DEVICE**
**Edward L. Fritzberg, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware**
**Application October 31, 1942, Serial No. 464,068**
**1 Claim. (Cl. 259—95)**



A stirring device comprising a shaft, a hollow inverted truncated conical member mounted axially on the shaft and having a series of polygonal pieces secured to the inside of the member said pieces having sharp edges extending inwardly so as to violently abrade any lumps passing therethrough, said conical member being adapted to dip into a liquid to be stirred, means for rotating the shaft, a container, and means for moving the shaft axially with respect to the container to adjust the depth of the conical member in the liquid.

---

**2,390,580**
**METAL BEDSPRING**
**Hyman Gertler, Montreal, Quebec, Canada**
**Application August 22, 1944, Serial No. 550,537**
**5 Claims. (Cl. 5—201)**

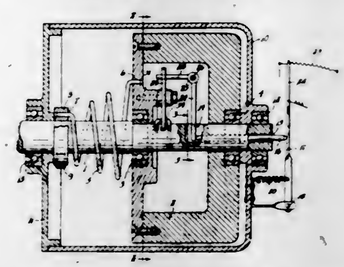


1. A bed spring having two headers, one at each end, spring means urging said headers towards each other, two tubular side rails each flattened at each end, and means connecting said rails to the headers, said means comprising an angle connector member extending downwardly from each header near each end, and having one wing connected to the header and the other wing extending therefrom substantially in the direction of the length of the bed, the wing connected to the header having formed therein near to its junction with the other wing a substantially rectangular slot having its longitudinal axis substantially in the vertical plane and adapted to receive the flattened end of a side rail, said side rail being

notched at the bottom to engage both faces of the wing connected to the header at the bottom of said slot, and formed at the top of the flattened end with a shoulder adapted to engage the inside face of said wing at the top of the said slot after engagement of both sides of the connector member at the bottom of the slot, and a stabilizing member secured to the wing of the connector member which extends in the direction of the length of the bed, said stabilizer defining with said wing a slot through which the flattened end of a rail passes, and engaging said rail to prevent lateral and rotary movement thereof.

---

**2,389,581**
**CONTROL DEVICE**
**Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application February 22, 1943, Serial No. 476,796**
**3 Claims. (Cl. 201—48)**

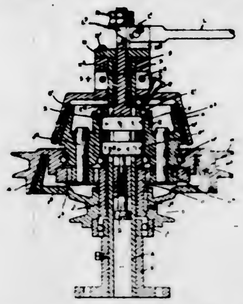


2. Control apparatus, comprising in combination, a rotatable shaft, a mass rotatably mounted on said shaft, means resiliently connecting said mass and said shaft to permit relative angular movement of said mass and shaft upon acceleration and deceleration of said shaft, said shaft having a slot adjacent said mass and a hollow portion extending from an end of said shaft to said slot, a member projecting into said slot and providing a connection through which said mass may be driven by said shaft, a thrust rod movable within said hollow portion and engaging said member, means carried by said mass for moving said member upon relative angular movement of said mass and said shaft to modulatingly position said thrust rod axially of said shaft and at a given ratio to said angular movement, said connected member being disposed to normally assume a neutral position, said resilient means being operable to yieldably resist departure of said shaft or said mass from said neutral position, means for altering the location of said neutral position and thus altering said ratio between said angular movement and the modulating movement of said rod, an elongated electrical resistance element, a contact slidable along said resistance element, and a connection between said thrust rod and said contact for positioning said contact along said element.

---

**2,389,582**
**BELT DRIVE REVERSING UNIT**
**Theodore E. Gohlke, Detroit, Mich., assignor of one-half to Helen Gohlke, Detroit, Mich.**
**Application April 10, 1944, Serial No. 530,868**
**2 Claims. (Cl. 74—296)**

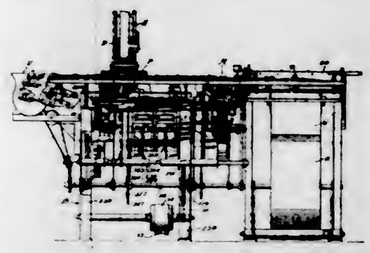
1. A reversible transmission mechanism comprising a hollow post, adjacent drive and driven pulleys surrounding said post provided with a direct clutch engagement with each other, said driven pulley being revolubly mounted directly upon said post to be axially immovable thereon, a head surrounding said post on which said drive pulley is revolubly mounted to be axially movable therewith, said head also having a brake element thereon, a sleeve surrounding and axially movable upon said post on which sleeve said head is revoluble to be axially movable therewith, a brake element fixed upon said post for cooperation with the brake element on said head to hold the latter from rotation, a planetary gear



train enclosed by said pulleys in a space therebetween having the gears thereof respectively mounted on said pulleys and said head, and a member axially movable within said hollow post and connected through a slot therein with said sleeve, said member being adapted when moved in one direction to engage the clutch between said pulleys to directly couple the same and when moved in the opposite direction to engage the brake element on said head with the brake element fixed on said post thereby transmitting the rotary movement of said drive pulley through said planetary gear train into reverse rotary movement of the driven pulley.

---

**2,389,583**
**PRINTING MACHINE**
**Walter T. Gollwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware**
**Application July 21, 1941, Serial No. 403,272**
**33 Claims. (Cl. 101—58)**



1. In a machine through which printing or like devices arranged in groups by having a group designating means included on one device in each group are advanced seriatim to at least one station in the machine whereat at least one operation is performed on or under control of the device at each station and wherein the groups of devices are sequentially advanced through the machine, discharge means into which the devices are advanced after passage thereof through a station such as the aforesaid in the machine, at least two positions in the machine arranged in spaced relation one with the other and with the discharge means and to which the devices may be passed from the discharge means, means for effecting the passage of the devices from the discharge means to said positions, sensing means for sensing the group designating means of such devices, and means governed by said sensing means and operative in response to repeated and like sensing operations of said sensing means to so actuate the means for effecting passage of the devices to said positions that the devices in one group thereof pass to one of said positions and the devices in the succeeding group thereof pass to another of said positions whereby the groups of devices are collected together at the respective positions to which they are passed after passage thereof from the discharge means.



---

**2,389,584**
**FISHLINE ASSEMBLY CONNECTOR**
**Steven Lee Hardin, Philadelphia, Pa.**
**Application March 29, 1944, Serial No. 528,523**
**2 Claims. (Cl. 42—28)**

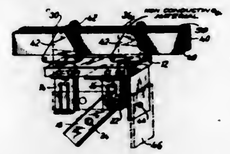


1. A fish line connector comprising a flat, smooth, single piece member having a pin projecting from one end thereof, a hole adjacent the opposite end of the member, and a second hole intermediate said first hole and the pin, whereby a bight of the line may be inserted in one direction through said first hole, then through a loop in the line to be connected, then in the opposite direction through said second hole, and finally passed over the pin.

---

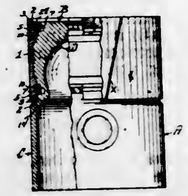
**2,389,585**
**DISCONNECT SWITCH**
**Cornelius Hartley, Prospect Park, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York**
**Application February 15, 1943, Serial No. 476,012**
**3 Claims. (Cl. 200—162)**

1. A switch adapted to be secured directly to a laminated bus bar structure, said switch comprising a body portion, a pair of switch contacts secured to said body portion, a switch arm operable to bridge said contacts, a flat electrically conducting strip having one end connected to one of said contacts and having its other end extending from said switch body portion, and a second flat strip insulated from the other of said contacts and extending from said switch body portion in spaced relation and parallel to said first mentioned strip, said two spaced flat strips each being adapted to be clamped between the laminations of said bus bar structure at spaced points thereon such that there is substantially no voltage difference between said points whether said switch is open or closed.



---

**2,389,586**
**PISTON AND RING CONSTRUCTION**
**Charles Emerson Hastings, Riddle, Idaho**
**Application May 6, 1944, Serial No. 534,432**
**8 Claims. (Cl. 309—14)**



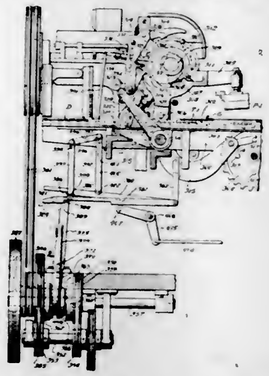
1. A piston ring construction, comprising an outer ring means formed with beveled parts providing knife edges adjacent the walls of a cylinder, said outer ring mounted on a piston, a sealing means between the outer ring means and the piston and interengaging with the outer ring means to be carried thereby, said sealing means having beveled parts forming knife edges cooperating with those of the ring means, and inherently expansible means associated with the sealing means and exerting expansible action, both with respect to the sealing means and the outer ring.

---

**2,389,587**
**PRINTING MACHINE**
**Robert L. Hatfield, Cleveland Heights, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware**
**Application January 16, 1942, Serial No. 426,973**
**4 Claims. (Cl. 101—47)**

1. In a printing machine having advancing means for moving printing devices sequentially therethrough and operable in productive cycles with respect to selected of such printing devices and operable through non-productive cycles with respect to other of such printing devices, control means for causing selective operation of the machine through productive and non-productive cycles, a high speed drive having a clutch through

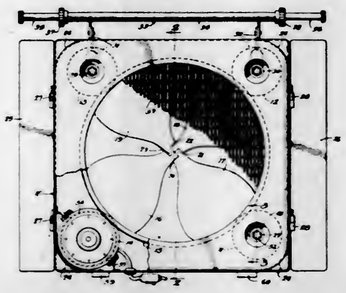
which it may be rendered operative to drive said advancing means, a low speed drive having a clutch through which it may be rendered operative to drive said advancing means, clutch shifting means for said clutches operable to disengage the engaged one of said clutches and then to engage the other of said clutches, selectively oper-



able actuating means for said clutch shifting means operated from the driven element of the engaged one of said clutches and governed by said control means, and inertia means associated with the driven elements of said clutches and operable to substantially maintain the operating speed of said driven members during clutch disengaging and engaging operations.

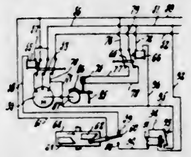
---

**2,390,588**
**FAN**
**John A. Heckman, Elmhurst, Ill., assignor to James F. Barnes, as trustee**
**Application October 25, 1943, Serial No. 507,527**
**6 Claims. (Cl. 230—117)**



1. A ventilating fan comprising a circular casing, a plurality of resilient rollers disposed in spaced relation about said casing and engaging the spaced portions of the periphery thereof, said casing being supported by said rollers for rotation about the central axis thereof, one of said rollers being arranged in frictional drive relation with the periphery of said casing whereby rotation of the roller produces rotation of the casing, means for rotating said last-mentioned roller, and a plurality of fan blades mounted in spaced relation about the inner surface of the periphery of said casing and extending radially inwardly therefrom.

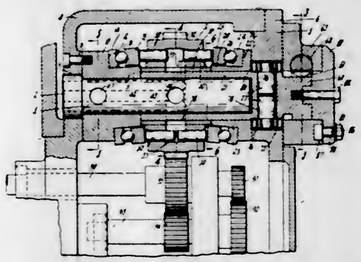
**2,390,589**
**TWO-SPEED DRIVE MECHANISM**
**Morris P. Holmes, Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont**
**Application January 4, 1944, Serial No. 516,986**
**2 Claims. (Cl. 192—144)**



1. In combination, a driven member, a low speed drive mechanism connected to drive said driven member, an over-running clutch in such connection, a motor connected to drive said member at a relatively high rate of speed, a spring applied electrically-released brake mechanism for said driven member, said electrically released mechanism being energized by said motor circuit to hold said brake released when said motor is energized and to permit the spring to apply the brake when said motor is de-energized, and a time delay mechanism for again energizing said brake release mechanism to release said brake a predetermined time after the deenergization of said motor.

---

**2,390,590**
**HYDRAULIC DEVICE**
**Morris P. Holmes, Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont**
**Application February 18, 1944, Serial No. 522,889**
**2 Claims. (Cl. 121—62)**

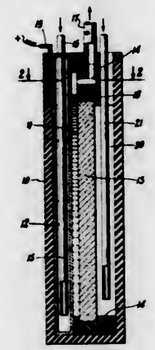


1. A fluid device, comprising a stationary shaft, an angularly adjustable valve member journaled on said shaft and having a pair of diametrically oppositely disposed vanes, a cage journaled on said valve member concentric with said shaft, said cage having a plurality of chambers arranged about its axis and having ports for cooperation with said vanes, said shaft having a pair of longitudinally disposed passages opening laterally between said vanes, a pair of plungers movable parallel to said axis through end walls of said chambers, a pair of abutments one having a face in position to be operatively engaged by the outer ends of the plungers at one of said end walls and the other having a face in position to be operatively engaged by the outer ends of the plungers at the other of said end walls, each of said faces being inclined to the perpendicular to said axis, means for angularly adjusting one of said abutments about said axis relative to the other abutment to adjust the relative angular relation of their inclined faces, means for delivering fluid to one of said shaft passages and discharging fluid from the other of said passages, and means actuated by said adjusting means for turning said valve member one-half the angular distance as the relative angular adjustment of said abutment plates.



---

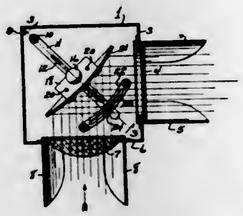
**2,390,591**
**ELECTROLYTIC METHOD FOR PRODUCING OXYGEN**
**Milton Janes, Lakewood, Ohio, assignor to National Carbon Company, Inc., a corporation of New York**
**Application November 8, 1941, Serial No. 418,390**
**3 Claims. (Cl. 204—129)**



1. In a process for producing oxygen by electrolyzing an aqueous solution between an anode and a cathode to produce oxygen at the anode, the improvement which comprises continuously depolarizing the cathode with oxygen to prevent the evolution of hydrogen, and promptly electrolyzing at the anode the product of such cathodic depolarization.

---

**2,390,592**
**TRAFFIC SIGNAL LIGHT**
**William E. Jones, Tulia, Tex.**
**Application September 16, 1943, Serial No. 502,681**
**1 Claim. (Cl. 88—82)**



A traffic light of the character described, comprising a rectangular housing, a glass panel in one wall of the housing, a lens in the adjoining right angle wall of the housing, an arm pivoted at one end within the rear end of the housing and extending at an angle of forty five degrees to the panel and lens and having a vertical slot therein, a standard adjustably supported within the slot of the arm, a reflector arranged transversely of the arm and having a universal connection with the upper end of the standard, and a slotted segment secured to the housing opposite the pivot point of said arm for supporting the free end of the arm and having means for adjustably securing the arm within the slot.

---

**2,390,593**
**DICARBOXYLIC ACID DERIVATIVES OF LOWER ALKYL ETHERS OF VITAMIN $B_6$, AND A PROCESS OF PREPARING THE SAME**
**John C. Keresztesy, Westfield, and Joseph R. Stevens, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application December 16, 1941, Serial No. 423,134**
**4 Claims. (Cl. 260—295.5)**

1. The process comprising reacting a lower alkyl ether of vitamin $B_6$ with barium permanganate, and recovering the dicarboxylic acid derivative of said lower ether.

4. An oxidation product of a lower alkyl ether of vitamin $B_6$, being further defined as containing two and not more than two carboxy groups, and being of the chemical composition

$$C_8H_7O_3N.(CH_2)_n$$

wherein $n$ is an integer.

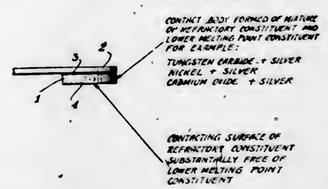
---

**2,390,594**
**HEAT-RESISTANT CAST IRON**
**Daniel E. Krause, Columbus, Ohio, assignor, by mesne assignments, to Gray Iron Research Institute, Inc., Columbus, Ohio, a corporation of Ohio**
**No Drawing. Application August 6, 1943, Serial No. 497,681**
**3 Claims. (Cl. 75—123)**

3. A machinable heat resistant, gray cast iron containing from 0.05 to 0.50 per cent of boron.

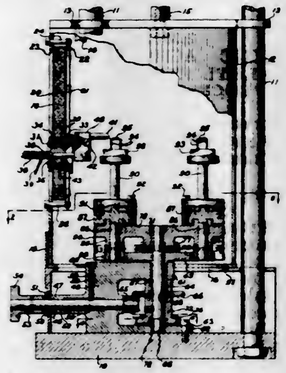
---

**2,390,595**
**ELECTRICAL CONTACT**
**Earl I. Larsen, Vernon E. Heil, and Earl F. Swasy, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application February 5, 1943, Serial No. 474,852**
**4 Claims. (Cl. 200—166)**




1. An electric contact formed of a metal composition comprising a mixture of a refractory constituent and a more fusible metal constituent, the contact face thereof being substantially free of said more fusible metal constituent and comprising said refractory constituent of the same microstructure as exists throughout the rest of the contact.

2,390,596
**APPARATUS FOR POSITIONING PARTS**
Elmer W. Larsen, Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 9, 1943, Serial No. 471,907
11 Claims. (Cl. 29—288)

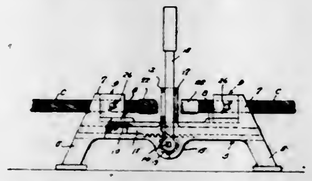


5. In an apparatus for supporting articles to be worked on, a rotatable table, work supports rotatably mounted on said table, a gear, means for rotating the gear in opposite directions, means interconnecting the table and gear and operative to rotate the table when the gear is rotated in one direction comprising a ratchet fixed to said table and pawls mounted on the gear, and means interconnecting the gear and work supports and operative to rotate the work supports when the gear is rotated in the opposite direction.

2,390,597
**INSECTICIDES**
George H. Law and John H. Purse, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application December 5, 1942, Serial No. 467,999
13 Claims. (Cl. 167—30)

1. Insecticide composition essentially containing N-cyclopentenyl N-cyclohexyl amine.

2,390,598
**CABLE OR ROPE CAPPING MACHINE**
Thomas Lepkowski, Washington, D. C.
Application May 13, 1944, Serial No. 535,537
11 Claims. (Cl. 153—1)



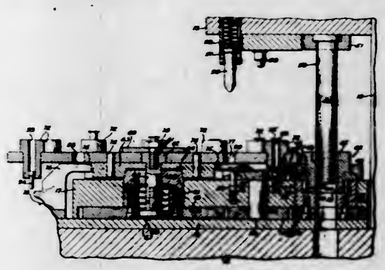
1. In a cable capping machine, a bed including supporting portions, clamps on said bed for securing lengths of cable having caps applied to adjacent ends thereof with the caps and ends of the cable spaced a selected distance apart, a rack bar slidable on the bed, a bearing formed on the rack bar, a die journaled in the bearing for the crimping of the caps onto the cable, a shaft journaled on the bed, means for rotation of the shaft in opposite directions, and a pinion secured to the shaft and meshing with the rack bar.

2,390,599
**EYE PROTECTOR**
Howard B. Lewis, Venice, Calif., assignor to B. F. McDonald Company, Los Angeles, Calif.
Application March 14, 1942, Serial No. 434,683
2 Claims. (Cl. 2—14)



1. A one-piece eye protector of a molded transparent plastic and having a horizontally curved lens to the edge of which a rearwardly projecting frame is integrally connected for spacing the lens from the eye, the rear edge of the frame being curved to fit snugly against the face around the eye, the temporal portion of the frame forming a transparent continuation of the lens with which it forms a small external angle, and said frame being formed to receive means for supporting the protector in eye-protecting position.

2,390,600
**PUNCH PRESS MECHANISM**
Alexander M. MacPhest, Brookfield, Elmer L. Moon, Western Springs, and Emil Sirp, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 18, 1944, Serial No. 527,124
10 Claims. (Cl. 153—10)



1. In a punch press, a reciprocatory press head, a work forming element on said head, an actuator rod fixed to said head for reciprocation therewith, oscillatory means positioned to be oscillated by said rod in opposite directions upon advancement and retraction of said rod, a dial plate driven from said oscillatory means, work holders on said dial plate for alignment with the forming elements upon movement of the dial, and a unidirectional drive mechanism interconnecting said oscillatory means and the dial plate to drive the dial plate in one direction only and to align a work holder with the forming element.



2,390,601
**BLOWOUT SEAL FOR WELL DRILLING ROTARIES**
August R. Maier, Oil City, Pa., assignor to Oil Well Supply Company, a corporation of New Jersey
Application August 26, 1943, Serial No. 500,167
2 Claims. (Cl. 255—23)



1. In a well drilling rotary including a rotatable table and a stationary base, a blow out seal therefor including a flexible sealing ring secured to the lower portion of the table structure and extending laterally beneath and beyond the joint between said table structure and an adjacent portion of the stationary base in proximity to the latter, said sealing ring being normally out of contact with said portion of the base and actuated by the force of the blow out into sealing contact with said base portion, and said sealing ring having a tapered cross-section terminating in a peripheral slinging lip.

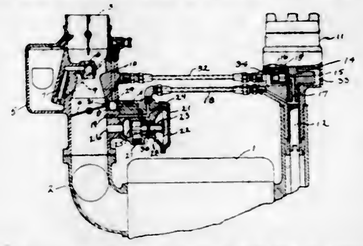
2,390,602
**PUMP PISTON ROD PACKING ASSEMBLY**
August R. Maier, Oil City, Pa., assignor to Oil Well Supply Company, a corporation of New Jersey
Application March 20, 1944, Serial No. 527,282
1 Claim. (Cl. 286—19)



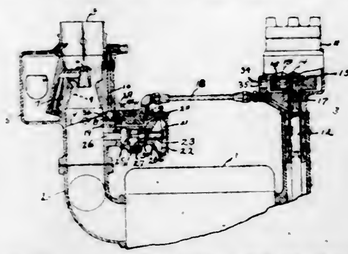
A piston rod packing assembly for the fluid end of reciprocating slush pumps and the like having a conventional rod packing, including a cylindrical gland on the rod having one end thereof engaging said conventional packing, said gland having upper and lower openings and cylindrical side portions spaced from the rod for the application of a washing fluid to and the discharge thereof from said rod, a packing container on the rod abutting the other end of said gland, means for adjusting the position of said container in relation to the rod packing to adjust the latter through the intervening gland, and a self-acting packing on the rod in said container operable to prevent the passage of fluid from said gland outwardly along the rod through said container irrespective of the adjusted position of the latter.

2,390,603
**DEGASSER FOR INTERNAL-COMBUSTION ENGINES**
Marion Mallory, Detroit, Mich.
Application August 1, 1944, Serial No. 547,621
6 Claims. (Cl. 123—103)

1. In an internal combustion engine having an intake passageway and a throttle valve in said passageway, a port to atmosphere for said intake passageway on the engine side of said throttle valve, a second valve controlling said port, means actuated through changes of pressure in the intake passageway on the engine side of said throttle valve for imparting movement to said second valve, a conduit connecting said pressure actuated means with the intake passageway on the engine side of the throttle valve, a second conduit connecting into the intake passageway on the atmosphere side of said throttle valve and communicating with said first mentioned conduit, and means actuated in response to a predetermined engine speed for controlling communication between said first and second conduits whereby the pressure in said pressure actuated means is modified and the second valve opens and bleeds air into said intake passageway on the engine side of said throttle valve when the throttle valve is closed and the engine is operating above a predetermined speed.



2,390,604
**DEGASSER FOR INTERNAL-COMBUSTION ENGINES**
Marion Mallory, Detroit, Mich.
Application August 1, 1944, Serial No. 547,612
9 Claims. (Cl. 123—103)

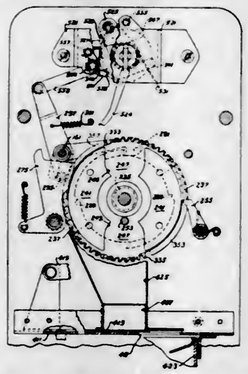


1. In an internal combustion engine having an intake passageway and a throttle valve in said passageway, a port on the engine side of said throttle valve, a second valve controlling said port, means actuated through changes of pressure in the intake passageway on the engine side of said throttle valve for imparting movement to said second valve, an orifice in the intake passageway positioned adjacent said throttle valve and on the atmosphere side of the same when the throttle is closed, said orifice passing on to the engine side of said throttle valve as the same moves toward open position, a conduit connecting said pressure actuated means with the intake passageway on the engine side of the throttle valve, a second conduit connecting said orifice with the aforementioned conduit between the intake passageway and the below-mentioned speed actuated means, and means actuated in response to a predetermined engine speed for modifying the pressure in said pressure actuated means whereby said second valve opens and bleeds air

into said intake passageway on the engine side of said throttle valve when the vacuum in the intake passageway exceeds a predetermined vacuum and the engine is operating above a predetermined speed.

---

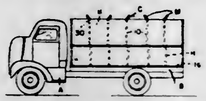
2,390,605
**CHECK CONTROLLED STOP DEVICE**
Harvey E. Marvel, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application December 23, 1942, Serial No. 469,963
6 Claims. (Cl. 194—66)



1. In a stop mechanism, the combination of a check presettable predetermining mechanism having preset and stop positions, means for receiving checks and variably presetting said mechanism in proportion to the value of the checks received, a control device having starting and stopping positions, manual means for moving said control device to starting position, including a manually operable element and disengageable means for connecting said element to actuate said control device, means operable by said mechanism when it occupies its stop position for actuating said disengageable means to disconnect said element and said control device, and releasable means for holding said control device in starting position, said operable means also being adapted to release said holding means when credit is exhausted.

---

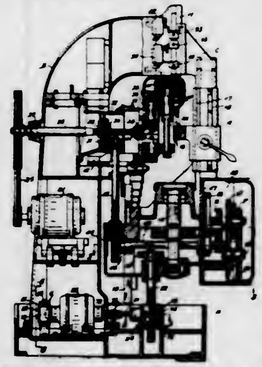
2,390,606
**PARTITION STRUCTURE FOR TRUCKS**
Clifford H. McCurdy, Detroit, Mich.
Application February 22, 1943, Serial No. 476,756
7 Claims. (Cl. 296—33)



1. The combination with an open top truck body adapted to haul loose material, of a plurality of upright partitions within said body at spaced points thereof and cooperating with upright walls of the body to provide compartments for the reception of said material, hingedly mounted flaps at the upper edges of said partitions adapted to swing in opposite directions from an upright position substantially in vertical alignment with the partitions to upwardly inclined positions upon opposite sides thereof, means carried by the flaps and engageable with the partitions to hold the flaps in the upwardly inclined positions mentioned, and reinforcing and stiffening strips for said partitions, certain of said strips being in the path of and constituting abutments for a part of the holding means just mentioned.

---

2,390,607
**HOBBING MACHINE**
George L. Merrill, East Cleveland, Theodore F. Carlin, Cleveland, and Edward J. Batorski, Garfield Heights, Ohio, assignors to The Cleveland Hobbing Machine Co., Euclid, Ohio, a corporation of Ohio
Application December 13, 1943, Serial No. 514,004
8 Claims. (Cl. 90—4)

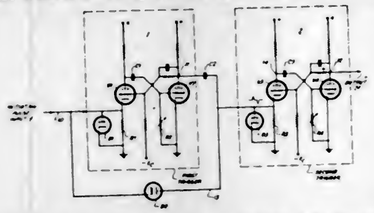


1. A hobbing machine of the character described comprising: a frame; a work spindle; means for rotatably supporting said work spindle; a hob or tool spindle; means for rotatably supporting said hob or tool spindle; a lead screw member and a cooperating nut member for producing relative movement between said work spindle and said tool spindle; means for rotatably supporting said lead screw member; means for rotatably supporting said nut member; means for holding one of said members against rotation; power actuated means for rotating the other of said members to effect a relative movement between said spindles; means for initiating operation of said power actuated means; and means for automatically rendering said fifth named means inoperative upon said spindles reaching a predetermined relative position.

---

2,390,608
**FREQUENCY MULTIPLIER**
William A. Miller, Port Jefferson, and Eugene R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application October 5, 1943, Serial No. 505,013
11 Claims. (Cl. 250—36)

1. A frequency multiplier comprising first and second triggers, each of which has only one degree of stability and is so constructed and arranged that a pulse of suitable polarity will trip the trigger for a predetermined time interval depending upon its time constants, after which it restores itself to normal, a source of pulses of fundamental frequency connected to the input electrodes of both triggers in parallel, the time constants of said triggers being such that the second trigger restores itself to normal prior to the first trigger and both triggers restore themselves to normal between pulses of fundamental frequency, said pulses having a polarity and magnitude which will trip said triggers simultaneously, and a connection from an output electrode of said first trigger to an input electrode of said second trigger to thereby retrip the second trigger upon the said first trigger being restored to normal but before the occurrence of another pulse of fundamental frequency, and an output circuit connected to said second trigger for deriving pulses whose repetition rate is a multiple of the fundamental pulse frequency.



---

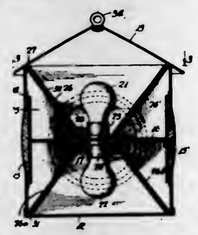


2,390,609
**BODYING AGENT FOR LIQUID HYDROCARBONS**
Arthur Minich, Mountainside, N. J., assignor to Nuodex Products Co., Inc., Elizabeth, N. J., a corporation of New York
No Drawing. Application July 29, 1942, Serial No. 452,758
1 Claim. (Cl. 252—316)

As a bodying agent for liquid hydrocarbons, a homogeneous multiple hydroxy aluminum soap of a mixture of organic acids comprising naphthenic, oleic and cocoanut acids, said acids being in the ratio of approximately 25 parts naphthenic acid, 25 parts oleic acid and at least 40 parts of cocoanut acid, based on 100 parts of the acid mixture.

---

2,390,610
**TRAFFIC LIGHT**
Albert E. H. Modern, West New York, and James L. Burke, Weehawken, N. J.
Application July 14, 1942, Serial No. 450,872
6 Claims. (Cl. 177—327)



1. A traffic light unit comprising a rectangular box having a face plate provided with a window opening, a horizontal septum within and midway between the top and bottom of said box, a pair of vertical walls extending obliquely inward from the lateral edge of said face plate and across said septum, the outer edges of said vertical walls extending obliquely from the respective corners of said face plate to the septum, plane filters of contrasting color supported at their outer edges near the respective upper and lower edges of the face plate, laterally upon the outer edges of the upstanding walls and engaging the horizontal septum at their inner edges and lamps attached to opposite faces of said septum in back of the respective filters.

---

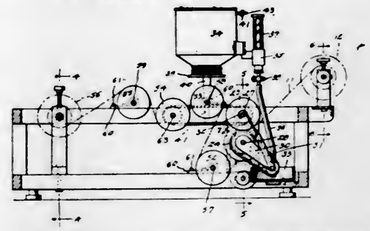
2,390,611
**WEDGE GRIP SCRAPER BLADE**
Virgil H. Nixon, Joplin, Mo.
Application May 17, 1944, Serial No. 535,959
2 Claims. (Cl. 37—143)



1. In a scraper of the character described, a back member having a marginal portion, wedge-shaped in transverse cross section, along one edge thereof said marginal portion having a series of spaced cavities formed therein with openings in communication therewith and extending to the outer faces of the marginal portion, said openings having their longitudinal axes at angles to each other; a blade provided with a longitudinal wedge-shaped groove along one edge thereof for receiving the said wedge-shaped marginal edge of the back member, said blade having holes formed therein in register with the openings in the back member; and bolts in the openings and holes, whereby certain of said bolts are disposed at an angle to exert transverse pressure on the blade to force the wedge-shaped marginal portion of the back member into the said groove of the blade when the bolts are tightened.

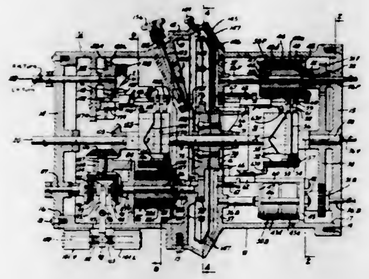
---

2,390,612
**REINKING MACHINE FOR TYPEWRITER RIBBONS**
Leon L. Ogg, Creston, Iowa
Application November 4, 1942, Serial No. 464,487
5 Claims. (Cl. 91—54)



1. A machine of the class described having means to mount a reel from which an inking ribbon is unwound, means to mount a reel for rewinding of said ribbon, and means to apply ink to the ribbon in its passage from one reel to the other comprising a roll, a shaft therefor, an endless absorbent applicator engageable with the ribbon in opposition to the roll providing a squeegee action on the ribbon and applicator, a roll over which the applicator passes, a shaft for the latter roll, a second roll over which the applicator passes, means pivoted on the second mentioned shaft journaling the said second roll from the second mentioned shaft, means mounting the second mentioned roll, and an inkwell into which one end of the applicator extends.

2,390,613
**VECTOR RESOLVING INTEGRATOR**
Willard E. Oliphant, New York, N. Y.
Application April 25, 1942, Serial No. 440,431
5 Claims. (Cl. 235—61)



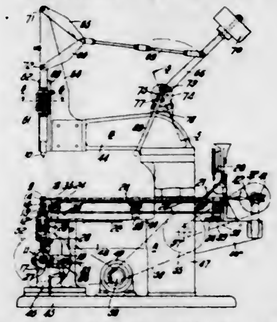
1. A mechanism of the class described including in combination a prime mover for imparting movement corresponding to the length of a vector, four members capable of being driven by said prime mover, means for connecting and disconnecting said members independently of each other with said prime mover to be driven thereby, a device positionable according to the quadrant angle of the vector in any quadrant thereof, said device having control instrumentalities movable proportionately to the sine of such quadrant angle for controlling said connecting and disconnecting means to connect selected ones of said four members to the prime mover for periods proportional to the sine of such angle, said control instrumentalities also being movable proportionately to the cosine of said angle for controlling said means to connect other of said members to the prime mover for periods proportional to said cosine.

2,390,614
**METHOD OF AND APPARATUS FOR MAKING ANNULAR ARTICLES**
Robert Pash, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 28, 1941, Serial No. 400,311
5 Claims. (Cl. 29—156)



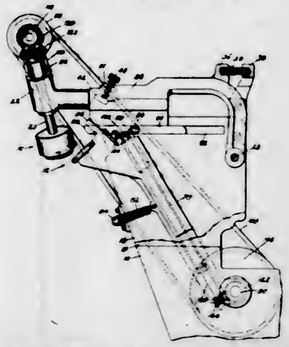
1. The method of making an incompletely annular ring of extreme accuracy and uniformity of circularity, which comprises steps of shaping on one side of an annularly cylindrical blank of hardenable material a peripherally disposed portion of desired radially cross-sectional form and approximate predetermined diameter and accurate circularity, treating the blank to harden a relatively thin portion thereof over substantially the entire surface thereof, removing the hardened portion from the blank except over the said shaped peripheral portion, removing a sector from the ring to render the same annularly incomplete, holding one end of the ring, and moving the other end in an arcuate path to permanently set the ring to a desired diameter while retaining its circularity.

2,390,615
**RIVET SETTING MACHINE**
Leslie Martin Paterson, Aylesbury, England, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass., a corporation of Massachusetts
Application June 7, 1940, Serial No. 339,390
In Great Britain June 7, 1939
5 Claims. (Cl. 78—48)



1. In a rivet setting machine, rivet setting mechanism including an anvil and a rivet driving head beneath said anvil, a rivet track leading toward said setting mechanism and having means for supporting rivets therein with their shanks upwardly presented, an endless feeding member located beneath said track and having a rivet engaging member positioned while in one stretch of its path to project into said track, and means for driving said feeding member in a direction to cause said engaging member to move a rivet in said track toward said setting mechanism.

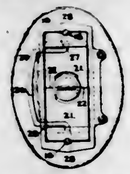
2,390,616
**CHANNEL CLOSING MACHINE**
Leonard E. Proulx, Arlington, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 15, 1944, Serial No. 518,384
6 Claims. (Cl. 12—29)



1. A channel-flap-laying tool comprising a rotary tool body, a plurality of wipers arranged annularly about the axis of the tool body and extending from an end face of the tool body for engagement with the work, said wipers being mounted in said tool body for yielding movement having an axial component under pressure of the work, and resilient means acting upon said wipers to oppose said yielding movement.

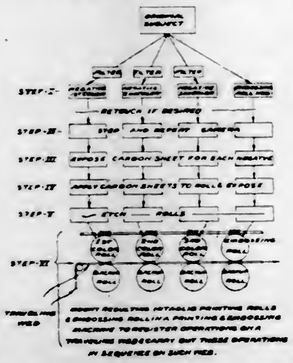


2,390,617
**WINDOW OPERATOR**
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application May 23, 1944, Serial No. 536,875
11 Claims. (Cl. 268—125)



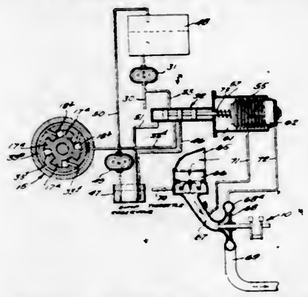
1. A window system comprising a vertically slidable window, a motor having a fluid operable member, means connecting the member to the window in a unit for movement back and forth by a force applied to either the window or the member, said connecting means having a play connection with the piston enabling limited relative movement with respect thereto, a lock shoe movably carried by the member, means operable by a window imparted movement of the unit during such relative movement and connected to the shoe to set the latter against a fixed part to lock the unit, and resilient means acting independently of said setting means normally to maintain the shoe lightly in engagement with the fixed part for imposing a drag on the unit against the window over-running the member and setting the shoe when the motor is operating.

2,390,618
**ART OF PRINTING AND EMBOSSING AND APPARATUS FOR PERFORMING THE SAME**
William A. Rechm, Rockville Centre, N. Y., assignor to Royal Lace Paper Works, Brooklyn, N. Y., a corporation of New York
Application April 12, 1944, Serial No. 530,737
7 Claims. (Cl. 101—32)



1. The method of producing an embossed printed web, which comprises: photographically reproducing a subject onto at least one intaglio printing roll, photoengraving predetermined portions of the surface of an embossing roll corelated with the portions of the web which it is desired to emboss, and thereafter coacting the resulting rolls in succession directly with a moving web with the corresponding printing and embossing portions thereof in predetermined corelation.

2,390,619
**CONTROL SYSTEM**
Earl O. Setterblade, Glen Rock, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application July 2, 1942, Serial No. 449,537
7 Claims. (Cl. 123—117)

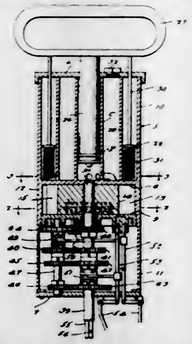


1. A system for automatically changing the spark timing of an aircraft magneto relative to an aircraft engine in accordance with variations in engine performance from time to time, the magneto having driven means controlling the spark and spark timing relative to the engine, and the engine having drive means adapted to drive the said driven means of the magneto, said system comprising a variable shaft coupling connecting said engine drive means with said magneto driven means, said shaft coupling including a shaft portion fixed to said engine drive means and a separate shaft portion fixed to said magneto driven means, said shaft portions being so interengaged as to normally cause said magneto to be driven at one spark timing, but as to afford leeway for limited rotation of said magneto shaft portion, relative to and independent of said engine shaft portion, to a position for causing said magneto to be driven at a different spark timing; vane means rigidly connected with said magneto shaft portion; fluid-pressure conduit means terminating at said vane means and adapted to project fluid under pressure against said vane means and to thus cause the said limited rotation of said magneto shaft portion relative to and independent of said engine shaft portion, as well as maintenance of the new position of said magneto shaft portion so long as the said fluid under pressure is maintained in said conduit; means for supplying said conduit with fluid under pressure; valve means associated with said conduit means for controlling fluid flow from said fluid-pressure supplying means to said vane means; pressure-responsive means; means for impressing differential pressures, existing within the intake system of the said engine, upon said pressure-responsive means so as to effect response thereof in accordance with the resultant pressure differentials; and means for controlling said valve means in accordance with the varying responses of said pressure-responsive means occurring from time to time during operation of said engine.

2,390,620
**HYDRAULIC DRIVING DEVICE**
David L. Shapiro, New York, N. Y.
Application September 26, 1944, Serial No. 555,868
4 Claims. (Cl. 74—189.5)

1. A hydraulic driving device of the character described, comprising a casing affording a liquid reservoir, a transmission housing, and a motor

cylinder between said reservoir and said housing, a rotary power piston in said motor cylinder, a hand pump associated with said reservoir for forcing fluid from the latter into the motor cylinder for driving said power piston, exhaust means for returning the expanded liquid from the motor cylinder to the reservoir, and a manu-



ally controlled variable speed and reverse drive gearing in said transmission housing, said gearing including a driving shaft projecting into the motor cylinder and carrying the power piston, and a driven shaft projecting from the transmission housing and provided with tool-holding and driving means.

---

**2,390,621**
**TREATING OLEFIN POLYMERS**
**Bernard H. Shoemaker, Hammond, Ind., and Edmond L. d'Ouville, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**No Drawing. Application March 30, 1942, Serial No. 436,769**
**13 Claims. (Cl. 260—94)**

1. The process of preparing an unsaturated high molecular weight hydrocarbon polymer from a substantially saturated linear polymer having a molecular weight above 1000 resulting from the polymerization of an olefin hydrocarbon with a Friedel-Crafts catalyst at a temperature below 0° F. comprising subjecting the said substantially saturated polymer to the action of a halogen in the presence of at least 10% by weight of a Friedel-Crafts catalyst at about 32 to 175° F. whereby substantially all the added halogen is eliminated as halogen acid, then separating the catalyst from the resulting unsaturated polymer product.

---

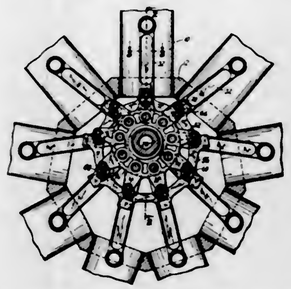
**2,390,622**
**NAVIGATIONAL AID**
**George Sidney Stanton, Kansas City, Mo.**
**Application October 22, 1942, Serial No. 462,951**
**6 Claims. (Cl. 33—75)**



1. In a navigational aid of the character described, a combined rule and protractor, the rule being calibrated on a longitudinal edge thereof in units of eight and sixteen miles per inch, said miles per inch calibrated edge having a designation "TH line" thereon and a hole midway the length of said "TH line," said protractor projecting laterally from said "TH line" uniformly with relation thereto, said protractor having a "right" and "left" indicia on corresponding ends of said "TH line."

---

**2,390,623**
**TRUE MOTION CONNECTING ROD**
**Edward C. Steiner, Oklahoma City, Okla., assignor to Wright Aeronautical Corporation, a corporation of New York**
**Application April 24, 1943, Serial No. 484,460**
**14 Claims. (Cl. 74—51)**



1. In a connecting rod assembly for a radial cylinder engine including a crankpin, a member journaled about said crankpin, a plurality of connecting rods articulated to said member, means for preventing rotation of said member about the axis of the crankpin, said means comprising a reaction ring pivotally connected to said member by a plurality of interconnecting links, and bearing blocks pivotally mounted on said connecting rods and received within correspondingly spaced radial grooves in the reaction ring.

---

**2,390,624**
**METHOD OF BUILDING UP TUBULAR JOINT MEMBERS**
**Albert L. Stone, Palos Verdes Estates, Calif.**
**Original application September 25, 1939, Serial No. 296,452. Divided and this application October 7, 1941, Serial No. 413,962**
**8 Claims. (Cl. 29—148.2)**



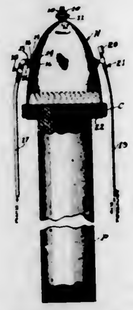
1. The method of reconditioning a tubular joint member that has a body portion, a reduced-diameter pin portion at one end of the body portion and an annular shoulder extending transversely of the joint member from the body portion to the pin portion and in predetermined longitudinally spaced relation with the free end of the pin, the reconditioning to include the reforming of said shoulder; that includes turning down the body portion, fitting a sleeve to said turned-down body portion, with the end of the sleeve projecting beyond the end thereof over the pin portion adjacent the shoulder, forming an annular, peripheral groove in and spaced from one end of the sleeve and located approximately



over the predetermined location of the re-formed shoulder, melt-welding through the groove bottom and weld integrating the sleeve at both sides of the groove with the joint member, substantially filling the groove with weld material and weld-integrating the material with the defining walls of the groove, and cutting an annular shoulder in the sleeve material and in the zone of weld in said predetermined spaced relation with the free end of the pin.

---

**2,390,625**
**PILE CAP**
**William N. Swarthout, Washington, D. C.**
**Application June 25, 1941, Serial No. 399,757**
**3 Claims. (Cl. 61—54)**

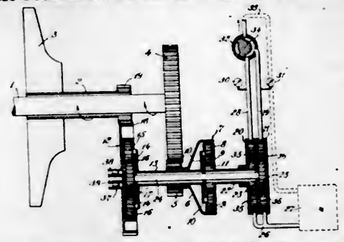


3. A method of preserving and protecting the butt-end of a wood pile comprising the following steps: leveling the butt-end, removably attaching a band to the pile adjacent the butt-end with one edge thereof projecting above the butt-end, confining a quantity of preservative material within said band and in contact with said end for a period sufficient for penetration of the wood a substantial distance from said end, removing the band, applying a plastic sealing coat over the thus treated end, applying a metallic mesh disk over the sealing coat and securing same to the end, removably attaching a band to the pile with an edge thereof projecting substantially above the mesh disk, introducing a mass of cement-sand-aggregate mix into contact with the disk with the edge thereof confined by the band, forcing the mix through the mesh disk into intimate contact with the sealing coat and slightly doming the top of the mix mass to provide a cap, thereafter removing the band and curing the cement-sand-aggregate mix.

---

**2,390,626**
**AIRCRAFT SUPERCHARGER DRIVE**
**Otto E. Szekely, Philadelphia, Pa., assignor to The Szekely Company, Inc., Philadelphia, Pa., a corporation of New York**
**Application November 18, 1942, Serial No. 465,980**
**17 Claims. (Cl. 74—293)**

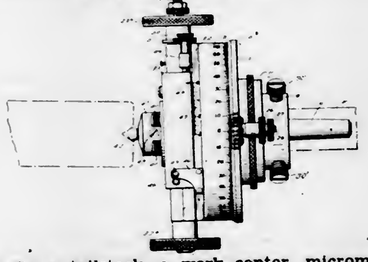
1. In a supercharger drive for internal combustion engines, primary and secondary epicyclic gear mechanisms, the primary mechanism having an input element driven by the engine, an output element and a control element, the secondary mechanism having output and control elements, the output element being connected to drive the supercharger impeller, and an input element driven by the output element of the primary mechanism, the control element of each epicyclic mechanism being connected to drive a rotary hydraulic resistance device having a predetermined



slip when hydraulically locked, and means for effecting hydraulic lock thereof.

---

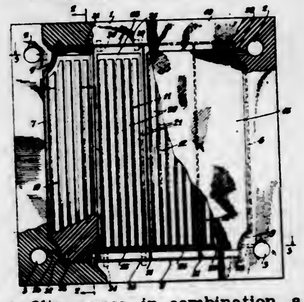
**2,390,627**
**TAPER CUTTING ATTACHMENT FOR LATHES**
**Dean O. Truba, South Gate, and Elmer T. Liller, Los Angeles, Calif.**
**Application September 5, 1944, Serial No. 552,754**
**3 Claims. (Cl. 82—15)**



1. In a tailstock, a work center, micromatic adjusting means for off-center adjusting said center, a protractor carriage for said center and adjusting means, and means for rotating said carriage, said carriage consisting of an internal ring gear, said carriage rotating means including a hand rotated shaft and a pinion on said shaft meshing with the ring gear.

---

**2,390,628**
**FILTER**
**Paul Van Winkle, Scarsdale, N. Y., assignor, by mesne assignments, to George B. Finnegan, Jr., New York, N. Y., as trustee**
**Application July 28, 1943, Serial No. 496,466**
**4 Claims. (Cl. 210—188)**



1. In a filter press, in combination, a filter-press plate having an outer frame and a drainage

grid removably mounted within said frame, a filter medium in the form of a sheet overlying the surface of said outer frame and drainage grid, and a hollow rectangular spacing frame mounted and adapted to be pressed into close engagement with said filter medium, the border portion of said spacing frame being wider than that of said first-mentioned plate frame so as to overlap the junction between said plate frame and the drainage grid removably mounted therewithin, and means for pressing said spacing frame tightly against the plate frame to seal the press for filtration.

---

**2,390,629**
**METHOD FOR PREPARING PHENYL-PENTACHLORO-ETHANE**

**Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application December 8, 1943, Serial No. 513,479**
**5 Claims. (Cl. 260—651)**

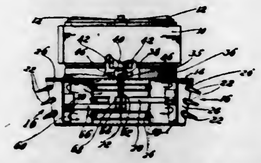
1. A process of making phenyl-pentachloro-ethane which comprises heating a mixture of alpha-trichloro-acetophenone and phosphorus pentachloride at a temperature of about 120° C. to about 180° C. until phenyl-pentachloro-ethane is formed, and separating the product from the reaction mixture.

---

**2,390,630**
**HEATING MEANS**

**Harry Stewart Wheller, Elizabeth, N. J., assignor to L. J. Wing Mfg. Co., New York, N. Y., a corporation of New York**

**Application April 6, 1943, Serial No. 481,967**
**17 Claims. (Cl. 98—40)**



1. In a device for circulating a stream of air into a space in which the device is positioned, a support, a casing on the support for rotation thereabout means for rotating the casing, an outlet on the casing for continuously directing a stream of air in succession to all points of the space upon rotation of the casing about the support, a fan for circulating a stream of air through the casing and discharging it from the outlet, said outlet of selected dimensions, and a damper mounted on the support in fixed position to the axis of rotation of the casing and at the periphery thereof, said damper of selected dimensions to obstruct the outlet and shut off discharge of air therethrough upon bringing the outlet into registration with the damper during rotation of the casing about the support.

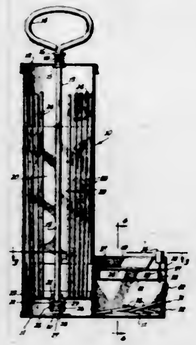
---

**2,390,631**
**WELDING ROD HOLDER**

**Edgar C. Young, Long Beach, Calif., assignor of one-fourth to Irving Hertz and one-fourth to Nathan Nagel, both of Long Beach, and one-fourth to Herbert A. Huebner, Los Angeles, Calif.**

**Application July 17, 1942, Serial No. 451,286**
**5 Claims. (Cl. 312—78)**

2. A container for welding rods and the like comprising a tubular member, a platform slidable therein and adapted to sustain welding rods or the like within said member, a cap to cover the upper end of said member, a rod attached to said cap and to said platform and provided with a handle for simultaneously removing the cap and elevating the platform to raise the welding rods above the upper end of the tubular member, a base supporting the tubular member, and a latch device between the platform and the base removably locking the platform in its lower position, said latch device comprising a hollow boss at the lower end of the rod, a pedestal secured to the



base of the tubular member with a flange at the upper end thereof adapted to lie within the hollow boss, a ring adapted to slide on the pedestal, and a spring within the hollow boss adapted in one position to expand into the area between the flange and the ring for locking the parts together and adapted to be compressed by depressing it upon the ring whereby upon moving the rod upwardly the ring carries the spring with it in a compressed condition in which it will pass the flange and allow the rod and its dependent parts to be withdrawn.

---

**2,390,632**
**FITTING INSULATING COVER**

**Oliver A. Abrams and Otto Schubert, Portland, Oreg., assignors to The E. J. Bartells Company, Seattle, Wash., a corporation of Washington**

**Application May 16, 1942, Serial No. 443,222**
**7 Claims. (Cl. 154—28)**



2. A preformed fitting insulating cover adapted to be used on fittings of irregular shape comprising a plurality of complementary sections, each of said sections comprising two spaced apart sheets of woven asbestos cloth, the outer of said sheets being supported by a shaped lining of hardened casting plaster adhering to the inner surface thereof, and a blanket of heat insulating material located between said plaster lining and the inner of said sheets.



**2,390,633**
**SOLE ROUGHING TOOL**

**William Scott Andersen, Philadelphia, Pa., assignor to Penn-Standard Sole Cementing Process, Inc., Philadelphia, Pa., a corporation of Delaware**

**Application January 13, 1945, Serial No. 572,726**
**3 Claims. (Cl. 69—20)**



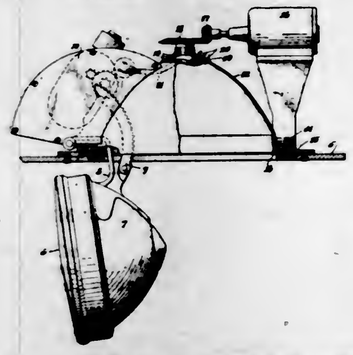
1. A leather roughening tool comprising an arcuate holder having a roughing strap receiving groove formed therein extending the full length of its convex side and around one end thereof and along a portion of its concave side, a handle formed integral with said holder, said handle being at an acute angle to said strap receiving groove, a leather roughing strap in said groove and extending the full length thereof, and means, including clamp plates confined within said groove and lying substantially flush with the contour of said holder, clamping each end of said roughing strap to said holder.

---

**2,390,634**
**LAMP**

**John R. Auflero, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York**

**Application March 16, 1942, Serial No. 479,329**
**4 Claims. (Cl. 240—7.7)**



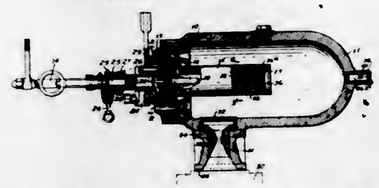
1. A lamp including in combination a housing having an opening, flange means secured to said housing, bearing means for engaging and confining said flange means for rotation thereof, a reflector shell pivotally supported with respect to said housing and adapted for retraction into or projection from said housing, means for projecting and retracting said projector shell with respect to said housing, a drive wheel fixed to said housing and power driven means coupled with said drive wheel whereby said housing may be rotated in said bearing means.

---

**2,390,635**
**TORPEDO LAUNCHING MECHANISM**

**Stuart Netherwood Barker, George Sidney Selman, and Victor George Bull, Hythe, and Vivian Charles Eric Marten-Gwilliam, Barton-on-Sea, England, and Robert Wark, Irvine, and Thomas Thomson, Kilmarnock, Scotland, assignors to The British Power Boat Company Limited, Hythe, Southampton, England, a company of Great Britain, and Imperial Chemical Industries Limited, London, England, a company of Great Britain**

**Application January 12, 1942, Serial No. 426,406**
**In Great Britain May 14, 1940**
**9 Claims. (Cl. 114—238)**



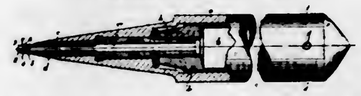
1. A torpedo launching cartridge comprising a casing containing a fast burning charge in the form of cord about .047 inch in diameter and comprising 41% nitroglycerine, 50% nitrocellulose, 9% diethyl diphenyl urea and a slow burning charge in the form of tubes about 6.7 inches long and having a web-thickness of about .137 inch, which tubes comprise 35.5% nitroglycerine, 5.5% nitrocellulose, 4.75% diphenylurea, 7% diamyl phthalate, .25% mineral jelly, and 1% potassium nitrate, the weight of which slow burning charge is from three and a half to five times the weight of the fast burning charge.

---

**2,390,636**
**WRITING INSTRUMENT**

**Laszlo Jozsef Biro, Buenos Aires, Argentina.**

**Application June 17, 1943, Serial No. 491,206**
**In Argentina April 17, 1943**
**11 Claims. (Cl. 120—43)**



1. A writing instrument of the type comprising a reservoir for charging dense ink having an air-intake and a free ball tip located in a corresponding setting and fed through a single conduit derived from said reservoir, wherein said ball setting is constituted by channels provided in the walls thereof and leading from said conduit to the sides of the setting socket, said channels being spaced so as to remain in alternate relation with bearing seats for said ball in said setting.

---

**2,390,637**
**ENGINE CYLINDER CONSTRUCTION**

**William Elmer Brill, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application November 18, 1942, Serial No. 465,458**
**4 Claims. (Cl. 123—65)**

3. A hollow cylinder having a plurality of circumferentially spaced fluid entrance ports of

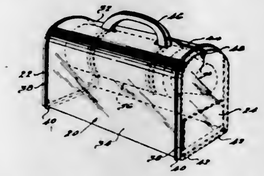
frustum shape, the wall of each port being projected from a separate point within the cylinder and in a plane transverse to the longitudinal axis



of said cylinder, each of said points being displaced from the cylinder axis to cause rotary motion of the fluid within said cylinder by entrance of fluid through said ports.

---

**2,390,638**
**LUNCH BOX**
**Vern W. Busch, Rushton, Mich.**
**Application July 26, 1943, Serial No. 496,135**
**12 Claims. (Cl. 206—4)**

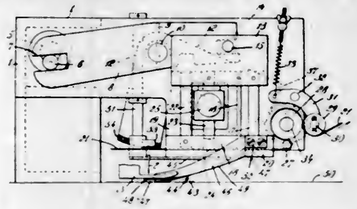


1. In a lunch box, in combination, a container having sides, top, and an open end, a removable closure for said open end, a carrying handle at the top of said container on the outside thereof, a pair of Thermos bottle carrying elements within said container spaced longitudinally of said container from one another, and means for supporting a Thermos bottle within said container and transmitting the weight thereof to said handle comprising a pair of members within said container spaced from each other by a distance approximately corresponding with the spacing of the opposite ends of said handle, and means extending between each of said members and the corresponding end of said handle passing through the top wall of said container interconnecting said members and handle.

---

**2,390,639**
**MACHINE FOR MAKING AND APPLYING SPANGLES**
**Cesar Bustamante, New York, N. Y., assignor of one-third to Sol Bookstein, Belle Harbor, N. Y., and one-third to Boris Weisman, New York, N. Y.**
**Application August 22, 1942, Serial No. 455,813**
**15 Claims. (Cl. 112—99)**

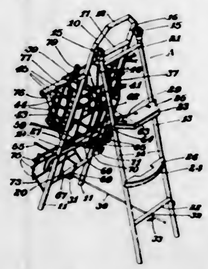
1. In a machine for making and applying spangles to sheet material, mechanism for sewing spangles to said material, mechanism for forming complete individual spangles, a carrier for receiving an individual spangle from the forming mechanism and transferring it to the sewing



mechanism, and means for actuating the forming mechanism and carrier in timed relation to the sewing mechanism to transfer complete individual spangles to the sewing mechanism as they are formed.

---

**2,390,640**
**METER TESTING INSTRUMENT SUPPORT**
**Ralph R. Carlson, St. Paul, Minn.**
**Application August 21, 1942, Serial No. 455,667**
**3 Claims. (Cl. 211—71)**

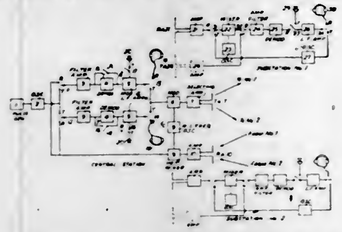


2. A meter testing instrument support comprising a frame including a pair of substantially parallel frame members and connecting members between said parallel frame members, a basket between said frame members for supporting a meter testing instrument, an inverted basket for accommodating the upper extremity of a second meter testing instrument, clamping means connected to said frame for holding the second meter testing instrument in place, guides for slidably supporting containers on said frame, and containers slidably supported in said guides.

---

**2,390,641**
**MULTICHANNEL CARRIER COMMUNICATION SYSTEM**
**Prafulla Kumar Chatterjea and Leslie Wilfred Houghton, London, England, assignors to Standard Telephones and Cables Limited, London, England, a British company**
**Application February 16, 1943, Serial No. 476,073**
**In Great Britain March 13, 1942**
**8 Claims. (Cl. 250—9)**

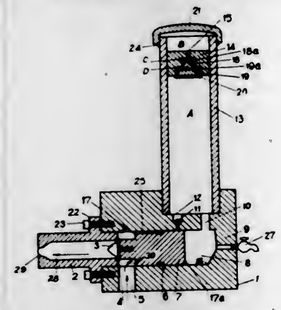
1. In a radio communication system for communication between a central station and a plurality of sub-stations, transmitting means at the central station including a plurality of means for producing signal frequency waves, a plurality of means for producing a sub-carrier frequency wave, means for producing a principal carrier frequency wave, means for modulating the wave from each of the sub-carrier producing means with the waves from a signal producing means, means for modulating the principal carrier frequency wave with the modulated sub-carrier frequency waves and means for radiating at least one side-band of the modulated principal carrier frequency wave; at each of said sub-stations means for producing signal frequency waves, means for producing a sub-carrier frequency wave, means for producing a principal carrier frequency wave, means for modulating the sub-station sub-carrier frequency wave by the sub-



station signal frequency waves, means for modulating the principal sub-station carrier frequency wave by the modulated sub-station sub-carrier frequency wave, and means for radiating at least one side-band of the modulated principal sub-station carrier frequency wave, frequency and side-band of the modulated principal sub-station carrier frequency wave being positioned so that the side-band radiated from the sub-station will cover a frequency band on the opposite side of the principal central station carrier frequency to that occupied by the side-band radiated from said central station.

---

**2,390,642**
**VALVE**
**Paul N. Curry, Kalamazoo, Mich., assignor to Dura-metallic Corporation, Kalamazoo, Mich.**
**Application March 17, 1943, Serial No. 479,414**
**9 Claims. (Cl. 137—153)**



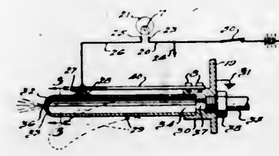
1. A retaining valve comprising in combination: a body part having a cylindrical opening therein and a side opening providing communication from said cylindrical opening intermediate its ends through the side of said body part to the exterior thereof; a cylindrical plunger having two diameters along its length of which one provides a close sliding fit with the walls of said cylindrical opening in said body part, and the other is of reduced diameter forming a valve, and a channel along the side of the portion of large diameter beginning at its end adjacent the portion of smaller diameter and extending partway to the other end thereof; a nipple having a cylindrical opening therethrough communicating at one end with the end of said cylindrical opening in said body part approached by the valve portion of said plunger and fitting within said opening forming a valve seat coacting with said valve, and said cylindrical opening in said nipple being constricted at one point thereof; the whole arrangement placing said side opening between the valve seat and the larger diameter of said plunger in any position thereof; a tank which is air tight excepting for two openings therein of which one is provided with a check valve and communicates with said channel in said plunger when the plunger is in fully withdrawn position and the other communicates freely with the said cylindrical opening in said body part at the end thereof approached by the larger diameter portion of the plunger; means within said tank limiting the extent to which it will fill with liquid; and means permitting selective draining of said tank.





---

**2,390,643**
**INDICATOR DEVICE**
**Pierre Stuart de Beaumont, Washington, D. C., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan**
**Original application October 15, 1941, Serial No. 415,064. Divided and this application November 8, 1943, Serial No. 509,417**
**4 Claims. (Cl. 200—81.8)**



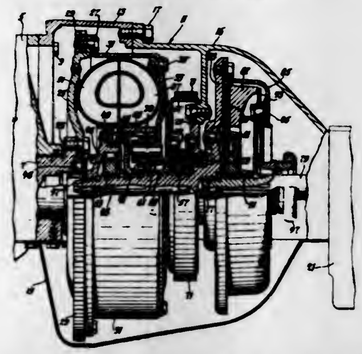
1. In an electric indicator system for a pressure lubricating system having a stationary contact connected with a source of energy, a Bourdon tube having an anchored end with an inlet opening communicating with the lubricating system, means grounding the tube, and a contact fixed to the free end of said tube for engaging the stationary contact, the free end of said tube having a lubricant outlet orifice therein materially smaller than the inlet opening and flexing in one direction relative to the stationary contact in response to high temperature or low pressure of the lubricant passing therethrough and in the other direction in response to low temperature or high pressure of the lubricant passing therethrough.

---

**2,390,644**
**METHOD OF DRAWING**
**Karl H. Diehn, Dundalk, and Leonard C. Crewe, Baltimore, Md., assignors to Bethlehem Steel Company, a corporation of Pennsylvania**
**No Drawing. Application July 21, 1943, Serial No. 495,602**
**3 Claims. (Cl. 205—21)**

1. The method of drawing coils of metal rod into wire, which consists in dipping the coils into a 1 to 5 per cent aqueous solution of sodium silicate only at about 200° F. temperature, and then drawing the rod.

**2,390,645**
**OVERDRIVE GEARING**
**Mark H. Frank, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application April 12, 1943, Serial No. 482,669**
**3 Claims. (Cl. 74—189.5)**



1. In a power unit, a source of power, a fluid coupling impeller connected thereto, a runner driven by said impeller, a shaft, an overrunning clutch between said runner and shaft, planet gearing located rearwardly of said runner, connections with said source of power to revolve said planet gearing about the axis of said shaft, means whereby the planet gearing may drive said shaft at double its own speed of rotation, with the overrunning clutch inoperative, a driven shaft, a releasable friction clutch between said shaft and driven shaft, said means comprising a drum, a band adapted to be contracted upon said drum in response to an operative characteristic of said source of power, a sleeve connected to said drum, a sun gear on said sleeve meshing with said planet gearing, a ring gear surrounding and meshing with said planet gearing and a driving connection between said ring gear and said shaft.

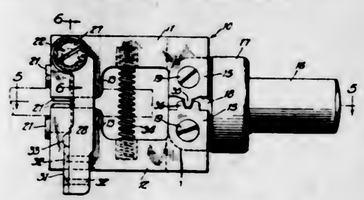
**2,390,646**
**WELL DRILLING APPARATUS**
**Russell R. Hays, Lawrence, Kans.**
**Application May 10, 1943, Serial No. 486,446**
**7 Claims. (Cl. 255—1.6)**



1. In pneumatic engines, a fluid pressure supply conduit, a longitudinally extensible chamber comprising a soft rubber tube surrounded by a helical spring, a head carried by the extending end of said coiled spring, inlet and exhaust ports carried by said head, a valve structure alternately operative to control said ports, a spring tension means carried by the extensible end portion of said chamber for throwing said valve structure, a restraining means integral with the relatively fixed end of said extensible cylinder and alternately contacting said spring tension means in response to reciprocating longitudinal movement of the extensible chamber whereby the operations of the valve structure are synchronized with the reciprocal movement of the head carried by the coiled spring, in response to tension thus induced in said spring tension means.

4. In a well drilling mechanism for drilling lateral holes from a well bore, a pressure fluid supply conduit, an elastic tube constituting a longitudinally expansible and transversely flexible chamber communicating with and secured to said conduit, a drill head having an outlet port and carried on the free end of said chamber, and a valve responsive to the fluid flow in said chamber to open and close said outlet port whereby the fluid flow in said chamber is varied to cause expansion and contraction of said chamber whereby said drill head is reciprocated.

**2,390,647**
**SCREW DIE-HEAD**
**August E. Heckman, Seaford, N. Y.**
**Application June 13, 1944, Serial No. 540,077**
**6 Claims. (Cl. 10—116)**



1. In a die-head, the combination of pivotally connected die supporting jaws, resilient means constantly acting on said jaws and having a normal tendency to move said jaws to open relation with respect to each other, and a device to releasably retain said jaws in a closed relation, said device including a fixed abutment on one of said jaws, a trigger, a pivot consisting of eccentrically related portions integral with each other, the first of said portions secured to one of said jaws, the second of said portions engaged with said trigger, said trigger thus being mounted for pivotal movement and also being adjustable, said trigger being releasably engageable with said abutment, and resilient means coacting with said trigger to keep the trigger under suitable tension while it is engaged with said abutment.

**2,390,648**
**MANUFACTURE OF SULPHAMIC ACID**
**Donald P. Hill, Wilmington, Del., and George A. Peirce, Westfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 6, 1943, Serial No. 509,276**
**10 Claims. (Cl. 23—166)**

8. In the manufacture of sulphamic acid the steps of continuously bringing urea into contact with oleum in a liquid reaction medium made up of components of the sulphamic acid-forming reaction while effecting cooling adequate to inhibit formation of sulphamic acid and to maintain the reaction mass in a liquid state throughout the reaction, the proportions being such that when the reaction is complete there shall have been brought together not substantially more than one mole of sulphuric acid for each mole of urea, and thereafter converting the resulting product to sulphamic acid, the strength of the oleum being sufficient to provide at least about 15 and not more than about 40% $SO_3$ in excess of that required to produce the sulphamic acid.

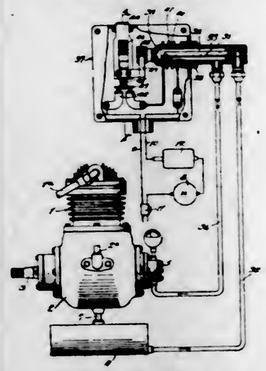


**2,390,649**
**INDEXING MECHANISM**
**Homer Verlin Hoffman, South Whitley, and Von Renold Kaufman, Piercetон, Ind., assignors to K M & H Corporation, Fort Wayne, Ind., a corporation of Indiana**
**Application May 22, 1944, Serial No. 536,732**
**14 Claims. (Cl. 10—107)**



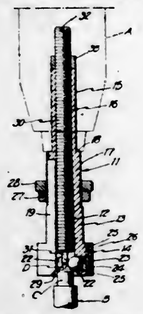
1. An indexing mechanism of the class described, comprising a rotatable table having blank receiving notches in its periphery each dimensioned to receive a blank in a definite position relative to said table, means for rotating said table the distance between centers of adjacent blank receiving notches, guide means for retaining each of said blanks in a receiving notch in said definite position relative to said table, and clamping means engaging a blank independently of the table and holding said blank in position during a work operation.

**2,390,650**
**CONTROL FOR REFRIGERATING SYSTEMS**
**Arthur C. Hollatz and Ray G. Thomas, Bloomington, Ill., assignors, by mesne assignments, to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan**
**Application June 27, 1941, Serial No. 400,070**
**12 Claims. (Cl. 62—4)**



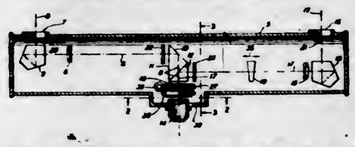
1. In a refrigerator having the usual compressor and motor for driving the same and means to cause automatic intermittent operation of said motor in accordance with refrigerating requirements, said compressor having an oil circulating system, a normally closed switch in the power controlling circuit of said motor, resilient means tending to open said switch, fusible metal means in heat conductive relationship to an oil circulation conduit of said circulating system to make said resilient means ineffective to open said switch, and a heater for fusing said metal to permit said switch to open, said heater being normally of insufficient capacity to fuse said metal when the oil circulation is maintained at a predetermined normal speed and sufficient to fuse said metal and release said switch when the oil circulation drops below said normal.

**2,390,651**
**ROTARY BURNISHING TOOL**
**John W. Iseman, New York, N. Y., assignor of one-half to Luis De Urzais, New York, N. Y.**
**Application June 28, 1944, Serial No. 542,590**
**7 Claims. (Cl. 29—90)**



1. A rotary burnishing tool comprising in combination, a tubular body having a head end, a group of like spherical burnishing elements mounted in the head end of said body in concentric relation to the axis thereof, like tension means urging the burnishing elements toward the axis of said body, whereby the conical end of a piece of work may be inserted axially into the head end of said body for engagement with the burnishing elements, and a stop member threaded in said tubular body having its inner end disposed adjacent the group of spherical burnishing elements for regulating the distance of insertion of the work into the head end of the tool.

**2,390,652**
**OPTICAL RANGE FINDER**
**Herbert E. Ives, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 25, 1943, Serial No. 511,664**
**12 Claims. (Cl. 88—2.7)**



1. A range finder comprising means to produce overlapping images of a target area from separated points of view, means to eliminate said images intermittently and alternately at a frequency to produce observable flicker in each image if viewed by itself, and means to adjust said

images transversely relatively to each other whereby coincidence of the images of a selected target may be effected as indicated by the absence of flicker in such target images.

---

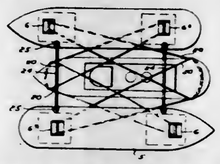
**2,390,653**
**CUTOFF TOOLHOLDER**
**Robert E. Kilgore, Detroit, Mich., assignor to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan**
**Application March 14, 1944, Serial No. 526,443**
**3 Claims. (Cl. 29—96)**



1. A cut-off tool holder comprising, in combination, a rigid one-piece body having a longitudinally extending recess in one side face thereof, said recess having an upper wall and a lower wall, said walls being arranged at an acute angle with respect to each other longitudinally of said holder and one of said walls being inclined inwardly of said face away from the other of said walls, a relatively elongated wedge member arranged for surface-to-surface contact with the last-mentioned wall and in abutting relationship with respect to an inner wall portion of said recess, the upper edge of said wedge being formed to provide a generally horizontally directed face arranged in longitudinally parallel relation with respect to said other of the first-mentioned walls of said recess and a vertically directed wall lying in the same plane as the inner wall of said recess immediately adjacent but outwardly spaced from said other wall of said recess, and means for mechanically controlling the position of said wedge member longitudinally of said recess.

---

**2,390,654**
**RAISING SUNKEN SHIPS**
**Charles E. Kittinger, Missoula, Mont.**
**Application October 6, 1944, Serial No. 557,441**
**4 Claims. (Cl. 114—51)**



1. The method of raising a sunken ship, which consists in disposing two salvage ships on the surface parallel with and to opposite sides of the sunken vessel, coupling said salvage ships so as to maintain them in spaced parallel relation and permit them to relatively rise and fall with the waves, lowering hoisting loops from each salvage ship and through the latter respectively adjacent the bow and stern thereof, crossing the hoisting loops of each salvage ship beneath the latter and above the sunken ship and engaging them under opposite ends of the sunken vessel so that an upward pull upon the hoisting loops will tend to draw the same toward the transverse center of the sunken vessel, and simultaneously winding all of the hoisting loops of the two salvage ships at a substantially uniform speed to raise the sunken vessel in a substantially horizontal position adjacent and between the salvage ships.

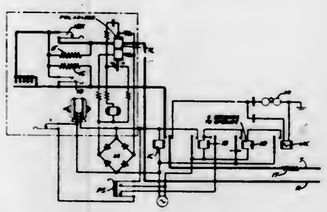
**2,390,655**
**HAND PUNCH PRESS**
**Francisco Lago, Staten Island, N. Y.**
**Application January 20, 1945, Serial No. 573,792**
**6 Claims. (Cl. 164—96)**



1. A punch device comprising a base, side walls extending upwardly from said base, a die supported on said base, a block rigidly secured to said side walls, a guide supported between said side walls having a slotted flange overlying said block, a bolt in said slot securing said guide to said block for movement relative thereto, means carried by said block for moving said guide, a cam member journaled in said side walls over said die, a punch holder pivotally secured to said cam member for sliding movement vertically along said guide, a backing plate backing said punch holder on the side thereof remote from said guide, a punch secured in said punch holder in alignment with said die, and a handle for operating said cam member to move said punch toward and away from said die.

---

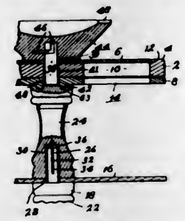
**2,390,656**
**SATELLITE TELEGRAPH EXCHANGE SYSTEM**
**Karl E. Fitch, Summit, N. J., and Wayne V. K. Large, Glenwood Landing, and Charles W. Lucek, Forest Hills, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 11, 1937, Serial No. 173,958**
**242 Claims. (Cl. 178—2)**



1. A telegraph switching system comprising a switching office, a plurality of lines terminating thereat each provided at a remote point with a teletypewriter set, a plurality of trunks extending therefrom to a central exchange office, a circuit controlling connection in a predetermined order of the first idle one of said trunks to a calling line, and permutation code controlled instrumentalities controlling the connection of one of said lines to a calling trunk in a back and forth intercommunicative relation.



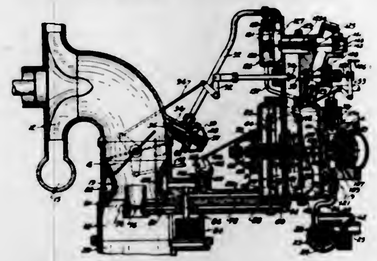
**2,390,657**
**COMBINATION CIGARETTE DISPENSER AND ASH TRAY**
**Earl R. Loudermilk, Kansas City, Mo.**
**Application June 28, 1943, Serial No. 492,637**
**5 Claims. (Cl. 312—97.1)**



2. A dispensing device comprising a magazine having a horizontally disposed rotatable member provided with a plurality of radial compartments open at the top and bottom, a lid resting on top of said rotatable member to cover the compartments, a stationary bottom plate disposed immediately beneath the rotatable member and provided with a delivery opening with which the compartments are adapted to successively communicate when the rotatable member is operated, and supporting means for the magazine provided with a vertical element upon which the rotatable member is journaled.

---

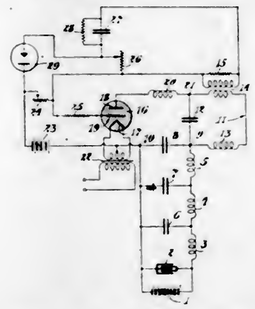
**2,390,658**
**LIQUID CONTROL MECHANISM**
**Frank C. Mock, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana**
**Application April 15, 1938, Serial No. 202,206**
**17 Claims. (Cl. 261—69)**



1. A charge forming device comprising an induction passage having an air inlet, a venturi in said passage, a fuel conduit leading from a fuel source and discharging into said passage, fuel metering means in said conduit, manually operable means for varying the effective area of said fuel metering means, a valve having a conical seat controlling the fuel conduit, a balancing diaphragm connected to said valve and subjected on opposite sides to the pressure in said conduit anterior and posterior to the valve for balancing the differential pressure across said valve, a control rod connected to said valve, a pair of diaphragms connected to said control rod, means for subjecting two of the faces of said diaphragms to the pressures at the venturi and air inlet respectively, means for subjecting the remaining two faces of the diaphragms to the fuel pressure in said conduit anterior and posterior to said fuel metering means, a by-pass around said fuel metering means, and means responsive to the fuel pressures in said conduit anterior and posterior to said fuel metering means for controlling said by-pass.

---

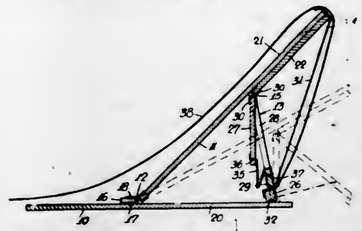
**2,390,659**
**OSCILLATION GENERATOR SYSTEM**
**Montford Morrison, Upper Montclair, N. J.**
**Substituted for abandoned application Serial No. 131,286, March 17, 1937. This application July 24, 1943. Serial No. 496,093.**
**3 Claims. (Cl. 250—36)**



1. An oscillation generator system comprising a closed circuit having a given natural frequency, a normally open circuit coupled with said closed circuit and when closed having a higher natural frequency than the given natural frequency, a direct current source of electric power coupled with said open circuit, and means for closing said normally open circuit for an interval of time equal to one-half the natural period of the open circuit when closed, thereby impulsing the said closed circuit for the said one-half period of time.

---

**2,390,660**
**FOLDING RECLINING BEDBOARD**
**Frank R. Muensen, New Rochelle, N. Y.**
**Application July 18, 1944, Serial No. 545,417**
**8 Claims. (Cl. 5—71)**

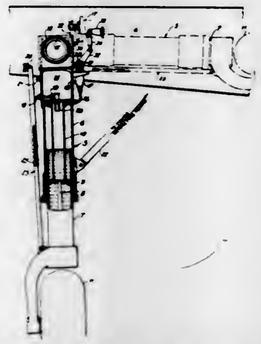


1. A foldable bed frame comprising a main body adapted to be set substantially horizontally, a back-rest hinged to said main body, a pair of props of different effective lengths independently hinged to said back-rest along a common axis for supporting said back-rest in either one of two inclined positions, said props being foldable into inoperative position against said back-rest and being selectively movable into back-rest supporting position, a flexible strap between said props, whereby said props may be moved in unison to-

wards folded inoperative position, while permitting limited relative angular movement therebetween about their hinged connections, and a draw strap connected to the longer prop and adapted to be pulled to fold said longer prop towards said back-rest.

---

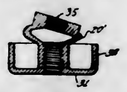
2,390,661
**AIRCRAFT STRUCTURE**
Arthur R. Parilla, Garden City, N. Y., assignor to Republic Aviation Corporation, a corporation of Delaware
Application October 23, 1940, Serial No. 362,387
8 Claims. (Cl. 244—102)



1. In a retractable landing gear having a shrinkable shock absorber strut including an oleo-pneumatic cylinder hinged to the aircraft and a plunger slidable in said cylinder, the upper part of said cylinder normally containing only air: a transverse partition subdividing said upper part of said cylinder, that is more specially reserved for air, into two separate and normally closed cylindrical chambers for containing precompressed air; the air pressure in both of said closed air chambers being maintained always at a value above atmospheric; a conduit between said chambers; an air transfer valve mounted in said conduit, said valve being normally closed; and mechanical means responsive to movements of the landing gear between extended and retracted positions for momentarily opening said valve when said strut is being shrunk.

---

2,390,662
**ONE-PIECE SELF-LOCKING NUT**
Walter M. Perry, Glenbrook, Conn.
Application June 28, 1944, Serial No. 542,521
9 Claims. (Cl. 10—86)



7. The method of forming a self-locking nut from sheet metal, which consists in extruding a hub from the sheet as a base, forming a bolt-receiving passageway in said hub so that the wall of the passageway forms a surface of revolution throughout its length, the axis of revolution of the passageway being perpendicular to the base, and then bending the upper portion of said hub so that the axis of revolution of the passageway in the upper portion is inclined at an angle to the perpendicular.

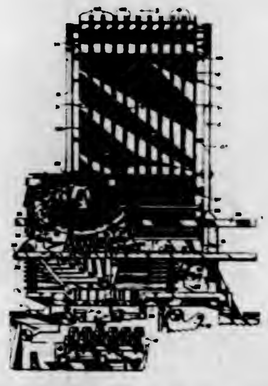
2,390,663
**EMBOSSED DISPLAY**
John H. Pollard, Dallas, Tex.
Application June 1, 1942, Serial No. 445,342
4 Claims. (Cl. 40—136)



1. A display including, a section of ordinary wire screen having a portion thereof raised and upset to provide an integral embossed panel, translucent filler material filling the interstices of the embossed panel, display characters applied to the filler material on said panel, an auxiliary smaller section of screen wire secured to the rear surface of the wire screen and having an embossed panel formed therein, the panel in the auxiliary section being of substantially the same size as the embossed portion of the wire screen, whereby said panels are spaced from each other, a translucent filler material filling the interstices of the panel of the auxiliary section, illuminating means mounted in the space between the embossed panels whereby said panels are illuminated, and display characters applied to the filler material in the embossed panel of the auxiliary section whereby a double sign is provided.

---

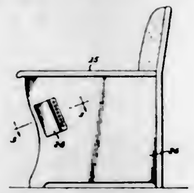
2,390,664
**TABULATION CONTROL SYSTEM**
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application April 6, 1944, Serial No. 529,753
24 Claims. (Cl. 178—27)



1. In a permutation code signal selecting mechanism, a set of coded selectors, a selectably positionable device adapted to be moved longitudinally of said selectors and to traverse said selectors, means carried by said device responsive to the coded notchings in said selectors, means for limiting the movement of said device to one character space, means for rendering said limiting means ineffective, thereby to enable continuous movement of said device through a plurality of character spaces at a time, and apparatus for restoring the effectiveness of said limiting means upon encounter with a distribution of notchings corresponding to said device.



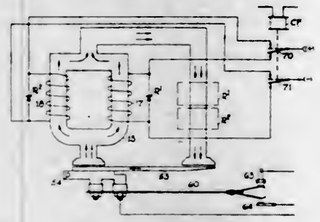
2,390,665
**SEAT LOCATOR**
Harold L. Putt, Long Beach, Calif.
Application September 4, 1943,
Serial No. 501,229½
1 Claim. (Cl. 177—311)



Seat locating means as described comprising a cabinet positioned adjacent the endmost of a row of chairs, said chairs each having a resilient seat, said cabinet having directional visual indicating means designating each of said chairs, operative when one of said chairs is unoccupied, said means including an angular disposed end wall of said cabinet a lamp and a lens tube for each of said chairs, each said lens tube extending inwardly from said angularly disposed end wall into said cabinet, and an indicia bearing lens positioned in each said lens tube adjacent the inner end thereof, there being a baffle plate in said cabinet between each pair of said lamps and said lens tubes.

---

2,390,666
**DECODING RELAY SYSTEM**
Frank X. Rees, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 17, 1942, Serial No. 469,346
10 Claims. (Cl. 175—320)

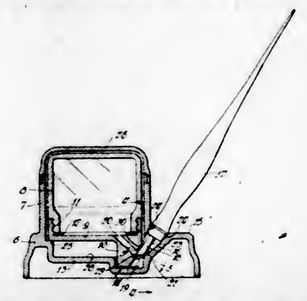


1. In an electro-magnetic relay, a U-shaped core structure one leg of which is divided into bifurcated portions and the other leg of which has mounted thereon short-circuited windings, two operating windings one on each bifurcated portion, and two asymmetric means, each for shunting its respective one of said operating windings.

---

2,390,667
**INKSTAND**
Gustav J. Sengbusch, Milwaukee, Wis.
Application February 3, 1944, Serial No. 520,858
7 Claims. (Cl. 120—59)

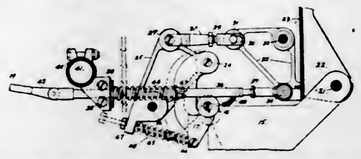
1. In an inkstand of the class described, the combination of a base having an upwardly extending side wall portion and a bottom wall portion co-operating with said side wall portion to form a receptacle, an ink bottle disposed in said receptacle and having a depending projection adjacent one side of the bottle, said depending projection being provided with an ink duct communicating at one end with the interior of said ink bottle, and having its other or discharge end communicating with a side surface portion of said depending projection, and means for supporting a pen in upwardly extending position with its pen point extending across and substantially closing



the discharge end of said ink duct, said duct being of such size as to normally resist the free flow of ink therethrough but permitting ink to be drawn therefrom and delivered to the pen point as an incident to capillary forces provided by said pen when placed in communication with said duct upon being positioned as aforesaid in said supporting means.

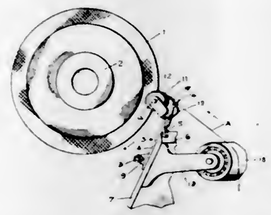
---

2,390,668
**AIRCRAFT STRUCTURE**
Edward W. Shaw, Babylon, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y., a corporation of Delaware
Application February 4, 1943, Serial No. 474,645
12 Claims. (Cl. 244—102)



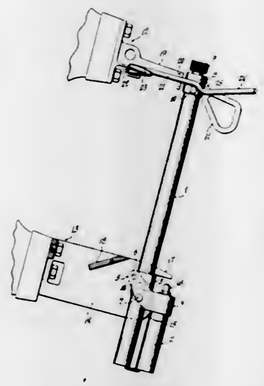
1. In an aircraft having a fixed structure and a landing gear retractable within said structure, means for securing said landing gear in its retracted position, comprising a pivoted part of said securing means; a roller carried by said pivoted part; a shiftable pivot mounted on said fixed structure and movable to an upper and to a lower operative position; locking means to normally immobilize said pivot in its upper operative position; a hook freely mounted on said pivot and adapted to come into engagement with said roller when said pivot is in its upper position and when the landing gear reaches its retracted position; gravity-actuated locking means operated by the weight of the landing gear to normally lock said hook and roller in said engaged position; and releasing means, manually operable from the cockpit of said fixed structure, for releasing said first-mentioned locking means and thereby freeing said pivot to drop from said upper into its lower operative position under the weight of the landing gear and simultaneously adapting said hook to clear the path of said roller and thereby release said gravity-locking means without necessitating any lift at all of the roller.

**2,390,669**
**CONE WINDER GUIDE**
**William T. Stearn, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware**
**Application September 19, 1944, Serial No. 554,748**
**3 Claims. (Cl. 242—157)**



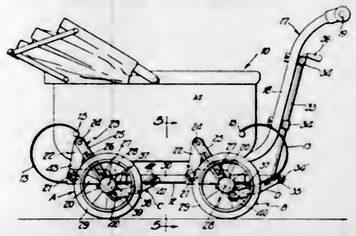
1. A guide for winding yarn onto packages comprising a roller guide having a guide groove therein for receiving and guiding the yarn being wound onto the package being formed, a forked wire guide for maintaining the yarn in the groove and a carriage supporting said roller guide and forked wire guide.

**2,390,670**
**CUTOUT**
**Alwin G. Steinmayer, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware**
**Application March 29, 1944, Serial No. 528,499**
**17 Claims. (Cl. 200—114)**



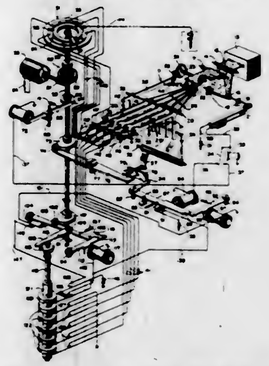
1. A fuse construction comprising an elongated main fuse tube having a closed end, a relatively short auxiliary fuse tube having a closed end, both said fuse tubes having open ends, retracting means in said main fuse tube biased for motion towards the closed end of said main fuse tube, and a fuse link extending outwardly from the open end of each of said fuse tubes, said fuse link having two spaced fusible sections arranged with a fusible section in each fuse tube, said fuse link being attached at one end to said retracting means and at its other end adjacent the closed end of said auxiliary fuse tube.

**2,390,671**
**BABY CARRIAGE**
**Henry Tannenbaum, New York, N. Y.**
**Application April 26, 1944, Serial No. 532,765**
**6 Claims. (Cl. 280—43)**



1. In a wheel vehicle having a chassis, front and rear sets of wheels, means on said chassis for supporting said sets of wheels for movement to raised and lowered positions, manually actuated means for locking said sets of wheels in raised position and for releasing the same for movement to lowered position, auxiliary wheels respectively aft of the front and rear sets of wheels, means for mounting the auxiliary wheels on said chassis for downward movement into engagement with the ground when the front and rear wheels are respectively moving from a raised position to a lowered position when the vehicle is descending a curb and when the vehicle is subsequently ascending a curb, and means operable by the manually actuated means for lowering the auxiliary wheels upon actuation thereof to release the front and rear sets of wheels and for raising said auxiliary wheels upon actuation of the manually actuated means to wheel locking position.

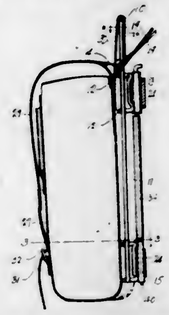
**2,390,672**
**STATION IDENTIFIER**
**Harold A. Wahlstrand, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware**
**Application April 27, 1944, Serial No. 533,023**
**16 Claims. (Cl. 178—17)**



1. In combination, a tape sensing device including means to sense the tape and means to feed the tape, a bail controlling said tape sensing and said tape feeding means, means to operate said bail, means to block the operation of said bail operating means, said blocking means including a blocking lever under the control of a magnet, whereby said bail will not be operated to cause the operation of said tape sensing device, and means to latch said blocking lever in its blocking position.



**2,390,673**
**PACK FRAME AND BAG**
**Milton S. Wallace, Tacoma, Wash., assignor to Tacoma Tent and Awning Company, Tacoma, Wash.**
**Application January 11, 1944, Serial No. 517,819**
**2 Claims. (Cl. 224—8)**



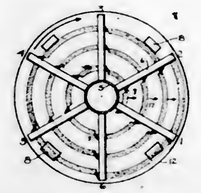
1. A pack of the character described comprising a frame structure with means for securing it upon the back of a wearer, and a pack sack; said frame structure comprising a central vertical frame member made from a single piece of spring wire bent to form a rounded upper end loop and two spaced vertical legs; cross frames fixed to the legs of the central frame member with opposite end portions extended equally to opposite sides thereof; tubular guide members fixed to the ends of the cross members; said tubular guides at corresponding ends of upper and lower cross members being in axial alinement; said pack sack having a back wall with tunnel strips fastened thereto for registering between alined guide tubes, a downwardly opening pocket fixed to the back wall and containing said upper end loop of the central frame therein, and pins extended through alined guides and tunnels to attach the sack to the frame; said pins being removable to release the sack and said sack being adapted to be lifted to release said pocket from the upper end loop of the central frame member.

**2,390,674**
**SERVING TOOL**
**William E. White, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania**
**Application July 1, 1942, Serial No. 449,373**
**10 Claims. (Cl. 140—123)**



1. A tool for serving with wire a metallic strand, comprising a lever arm provided at one end with a concave strand receiving seat having thereabove two fingers, one of which is curved to partially embrace the serving wire, and the second finger spaced above and apart from the first finger to deflect the wire from its normal course sufficiently to set up the required tension for tight wrapping.

**2,390,675**
**DRYING AND CALCINING FURNACE**
**Robert H. Abbott and Thomas A. Dickson, Denver, Colo., assignors to Colorado Iron Works Company, Denver, Colo., a corporation of Maine**
**Application June 5, 1942, Serial No. 445,950**
**2 Claims. (Cl. 259—107)**



1. In a furnace for drying and calcining lime mud, a substantially horizontal hearth, a rotatable shaft extending vertically through the hearth, at least three rabble arms extending radially from the shaft, each arm having a plurality of equally spaced rabble blades projecting downwardly towards the hearth, means for securing the blades to the arms and for holding them in a predetermined fixed relation thereto during operation, the blades on the several arms being inclined in the same direction relative to the axes of the arms and the direction of rotation, the blades being so positioned that the path of the blades on each arm will overlap the paths of the corresponding blades on the arm immediately in advance, the blades on each arm being so spaced that the distance between corresponding points on adjacent blades will be substantially equal to the effective width of the blades minus the overlap multiplied by the number of arms, whereby a continuous radial displacement of the lime mud is effected with a blade spacing of sufficient length to prevent the material from massing in front of the blades.

**2,390,676**
**SYSTEM FOR DETONATING EXPLOSIVES IN DEEP WELLS OR THE LIKE**
**Ford I. Alexander, Whittier, Calif.**
**Application August 25, 1942, Serial No. 456,031**
**4 Claims. (Cl. 102—20)**

1. Detonation apparatus for deep wells and the like, comprising in combination an explosive charge, a detonation controlling instrument which controls an electrical detonating circuit, means for lowering and raising the instrument and charge in the well, said means including a depending supporting line and means for attaching the instrument and the charge to the supporting line with the instrument spaced at a distance above the charge sufficient to prevent damage to the instrument by charge detonation, an electrical conductor forming a part of the detonating circuit and extending between the controlling instrument and the charge alongside the supporting line, and means for physically break-

ing the conductor embodying a drag loosely mounted on the supporting line, draggingly en-



gaging the wall of the well, and engageable with the conductor.

---

2,390,677
**CATAPULT DEVICE FOR AUTONOMOUS AERIAL TORPEDOES**
Robert Alkan and Amedee Costa de Beauregard, New York, N. Y.
Application May 21, 1942, Serial No. 443,864
1 Claim. (Cl. 244—63)

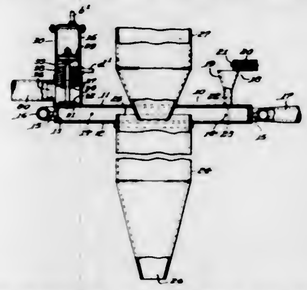


A catapult device for an autonomous aerial torpedo equipped with an engine, with wings and with a fixed pitch propeller comprising in combination a substantially horizontal runway, a trolley movable along the runway and adapted to carry the aerial torpedo, a tunnel at the rear end of the runway for housing the torpedo and trolley prior to take-off, said tunnel being formed with a central longitudinal chamber the smallest cross-sectional area of which is substantially coincident with the propeller circle and with a pair of shallow chambers extending laterally from the central chamber for accommodation of the propeller wings, means for creating a localized air stream through said tunnel from front to rear thereof to boost the engine speed when the torpedo is positioned in the tunnel with its propeller substantially in the plane of said smallest cross-sectional area of the central chamber and means for towing said trolley along the runway from the tunnel at a speed sufficient for take-off of the aerial torpedo from the trolley.

---

2,390,678
**METHOD AND APPARATUS FOR REFINING DRY MATERIALS**
Norwood H. Andrews, Moorestown, N. J., assignor to International Pulverizing Corporation, a corporation of New Jersey
Continuation of application Serial No. 348,733, July 31, 1940. This application April 25, 1942, Serial No. 440,480
4 Claims. (Cl. 241—5)

1. The method of pulverizing and separating a frangible material from a partially comminuted mixture of said frangible material and a less frangible material comprising: introducing a gas into a chamber near the periphery thereof and causing same to create a reentrant circulatory path; venting said gas from a point inwardly of said circulatory path; introducing said mixed material into said chamber in the region of said circulatory path; regulating the speed of said circulatory gas to hold the less frangible particles near the periphery of said chamber by their centrifugal force while the frangible particles are pulverized and pass out from said chamber with said gas being vented; continuing said action until substantially all of the frangible material has



been pulverized and removed from said chamber, without pulverizing and similarly removing any substantial amount of the less frangible material; then terminating the raw feed into said chamber and substantially concurrently therewith venting the material near the periphery of said chamber therefrom, by which to withdraw from said chamber material remaining therein, then being substantially the less frangible portion of said mixture and especially the larger particles thereof; then terminating said venting and substantially concurrently readmitting said raw feed; and, repeating the cycle.

---

2,390,679
**PROCESS FOR TREATING VITAMIN B CONCENTRATES**
Aaron Arnold, East Orange, and Carl Bernard Schreffler, Montclair, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application September 5, 1942, Serial No. 457,454
9 Claims. (Cl. 167—81)

1. A process for removing bitter taste principles from vitamin B complex concentrates prepared from natural sources which comprises extracting an aqueous cereal concentrate substantially free from water-insoluble gummy constituents with a water-insoluble organic fat solvent until substantially all the bitter taste principles are dissolved and removing the organic solvent solution of the extracted matter from the refined concentrate.

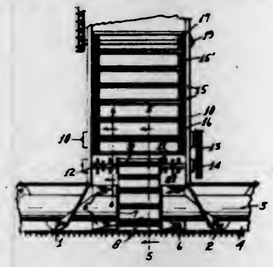
---

2,390,680
**FEEDING MECHANISM FOR THRESHING COMBINES**
Harry S. Ausherman, Wichita, Kans.
Application April 10, 1944, Serial No. 530,412
2 Claims. (Cl. 198—9)

1. In a feeding mechanism for a threshing combine of the class described comprising a trough rearward of a cutting sickle, an auger positioned in the trough and power means to turn the auger, said auger comprising a tubular



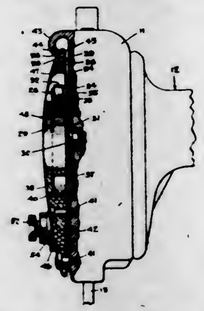
shaft having spirally wound vanes to convey straw from its ends toward the center of the auger, said vanes terminating at their inner ends with plate-like elements radially extending and being in parallelism with the worm shaft, the confronting ends of said plates being spaced apart, a flanged drum secured to the auger shaft, said drum being between the confronting ends of said plate-like elements, a feeder house having side walls and a bottom slanting upward and extending rearward from the trough and communicating therewith, the width of the house from wall to wall being equal to the length of the drum and both adjoining plates combined, a fingered shaft, and a flanged pulley secured to the last



named shaft at its longitudinal center while the fingers are staggered and positioned in spaced relation along the shaft each way from the pulley, said fingered shaft being journalled in the side walls adjacent the auger, and power means to turn the fingered shaft, a belt conveyor engaging on the flanged drum and pulley and a slat conveyor extending across from wall to wall of the feeder house, said slat conveyor having chain belts for the sides thereof to be engaged by sprocket wheels that are mounted on a pair of shafts, said shafts being journalled in the side walls of the feeder house, and power means to rotate one of last said shafts which in turn rotates the other shaft all as and for the purpose specified.

---

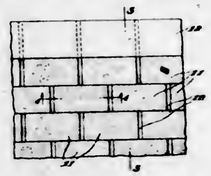
2,390,681
**THREAD TAKE-UP DEVICE**
Clarence Robert Backlin, Floral Park North, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York
Application November 5, 1941, Serial No. 417,895
5 Claims. (Cl. 112—248)



1. In a sewing machine having a frame, the combination of thread-guiding means; a rotary take-up plate; a take-up element having a free end, carried by and projecting from said plate, for operating on thread from said guiding means; a normally stationary take-up guard carried by said frame, spaced from said plate to provide a thread compartment, and having a raceway for receiving said free end; and means on said frame for confining said thread against movement out of said compartment over the edge of said guard, said confining means and said guard being normally maintained in yielding engagement.

---

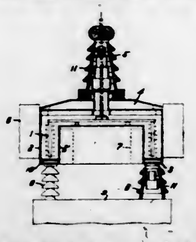
2,390,682
**STRIP SHINGLE CONSTRUCTION**
Reid G. Badeau, Wausau, Wis.
Application August 23, 1944, Serial No. 550,709
4 Claims. (Cl. 108—7)



1. A strip shingle construction comprising a plurality of shingles, a strip of substantially thin and highly flexible material adhered to the outer faces of the shingles and connecting same in strip form with their adjacent edges in uniform and slightly spaced relation, the strip extending to the ends of the shingles to be concealed and the width of the strip being equal to the width of lap between the shingles and those of an adjacent strip when laid on a roof and completely filling the space between the lapped portions of the shingles of the strips.

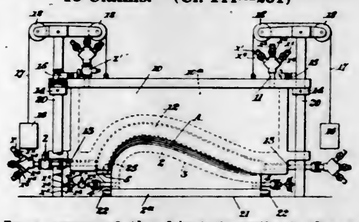
---

2,390,683
**DEMOUNTABLE HIGH-VACUUM HOT-CATHODE RECTIFIER**
Fritz Beldi, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application April 24, 1943, Serial No. 484,456
In Switzerland February 14, 1942
16 Claims. (Cl. 250—27.5)



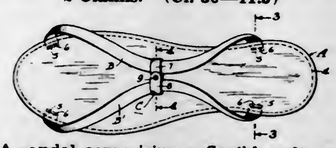
1. Demountable high-vacuum hot-cathode rectifier of the type including a rectifier vessel, a cover extending over the top of the vessel in vacuum-tight manner, a connection from the vessel to a vacuum pump, and a hot cathode and a grid within the vessel cooperating with an anode, characterised by the feature that the cathode of the rectifier is surrounded by a double ring-shaped anode and is supported by fluid cooled insulators within the confines of said anode.

**2,390,684**
**VENEER PRESS**
**Vincent Bendix, South Bend, Ind., assignor, by mesne assignments, to Langley Aviation Corporation, New York, N. Y., a corporation of Delaware**
**Application December 5, 1940, Serial No. 368,577**
**13 Claims. (Cl. 144—281)**



1. In a press of the kind described, the combination with a lower press member of light construction having its upper face conforming to the lower face of the article to be produced, and provided with interior space for the reception of heating and cooling fluids, a pressure bag having its lower face conforming to the upper face of the article to be produced, means for supplying heating and cooling fluid under pressure separately to said bag and to the interior of said press member whereby the pressure inside said press member opposes the pressure of said bag, a confining member for engaging said bag when inflated, and provided with interior space for the reception of heating and cooling fluids, and pipe connections for supplying said fluids separately thereto, and means for securing said confining member in fixed relation to said lower press member.

**2,390,685**
**SANDAL**
**Frederick J. Benson, North Sacramento, Calif.**
**Application November 29, 1943, Serial No. 512,203**
**2 Claims. (Cl. 36—11.5)**



1. A sandal comprising a flexible sole, a strap having both its ends directly secured to the same lateral edge of the sole near the toe and heel portions thereof, a second strap having both its ends directly secured to the other lateral edge of the sole near the toe and heel portions thereof, and a buckle slidably receiving both straps near the toe portion and holding the enclosed strap portions close together, the movement of the buckle from the toe toward the heel portion of the sole when the foot is in place causing the buckle to move up toward the top of the foot to cause the straps to move the sole into engagement with the bottom of the wearer's foot.

**2,390,686**
**RODENT EXTERMINATOR**
**William C. Bishop, Vernon, Tex., assignor of one-half to George W. Lisenbee, Vernon, Tex.**
**Application May 6, 1943, Serial No. 485,939**
**2 Claims. (Cl. 111—95)**

1. A rodent exterminator comprising a vertical elongated cylinder having means to facilitate the introduction of poison material into the sense, a slender outlet pipe rigid with and depending from the bottom of said cylinder, said outlet pipe having a solid pointed lower end adapted to penetrate the ground and provided with a lateral outlet opening immediately above said pointed end, a movable channel-shaped shield normally embracing said outlet pipe above the pointed end and closing said lateral outlet opening, a lateral arm rigid with said outlet pipe and operable by the foot to assist in forcing the pointed end of the



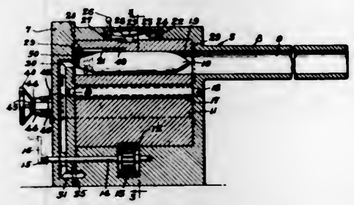
outlet pipe into the ground, said shield being pivoted to said arm and having a longitudinally curved lever rigid with and rising therefrom, said lever curving outwardly from the shield and then inwardly toward the outlet pipe, an operating rod vertically slidable on said cylinder, an operated member connected to said operating rod and arranged to actuate said lever, and a spring interposed between said lever and said outlet pipe for normally swinging the shield to the position wherein the same embraces the outlet pipe and closes the outlet opening.

**2,390,687**
**PREPARATION OF COMPOUNDS OF TUNGSTEN AND SIMILAR METALS FROM THEIR ORES AND RESIDUES**
**Gideon Boericke, Wynnewood, and Edward E. Boericke, Lansdowne, Pa.; said Edward E. Boericke assignor to said Gideon Boericke**
**No Drawing. Application February 10, 1945, Serial No. 577,344**
**5 Claims. (Cl. 23—18)**

1. In the extraction of tungsten and similar metals from ores and residues, the process which comprises digesting the metal bearing material at a temperature above 100° C., together with an excess of an alkaline solution of an alkali metal compound and a quantity of bauxite sufficient to provide a freely filtering gangue and to convert a substantial amount of the compounds of silicic, phosphoric and stannic acids into insoluble aluminum salts of those acids, filtering and washing the gangue, cooling the solution, adding sufficient slacked lime to complete precipitation of silicic acid and other remaining inorganic impurities, decolorizing the solution by treatment with activated carbon, separating a compound of the desired metal from the solution, as by crystallization or precipitation, and, finally, using the alkaline mother liquor in a subsequent digestion of ore or residue.



**2,390,688**
**TORPEDO DISCHARGE MEANS**
**Henrietta Bradberry, Chicago, Ill.**
**Application January 8, 1945, Serial No. 571,744**
**4 Claims. (Cl. 114—238)**



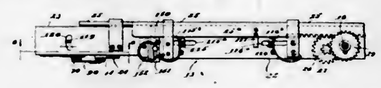
1. Torpedo discharge means comprising, a body, a magazine having a multiplicity of torpedo holding sections, the said magazine being rotatably confined within the said body, each of said torpedo holding sections provided with an elongated recess terminating in an abutment to trip the propelling mechanism of a torpedo, torpedo outlet means provided on said body extending into and below the surface of a body of water, gearing means secured within said body associated with the said magazine adapted to index the said torpedo holding sections in co-axial alignment with the said torpedo outlet means, locking pawl means secured within the said body and cooperating with the said gearing means adapted to maintain fixedly and releasably the co-axial alignment of said torpedo holding sections and the said torpedo discharge outlet, pressure means located in the said body and communicating with the said torpedo holding sections adapted to initially direct a torpedo thru the said torpedo holding sections and the said torpedo outlet means, and loading cover means articulately secured to the said body and adapted to be releasably and sealably secured to the said body.

**2,390,689**
**ZINC BASE ALLOYS**
**Edward S. Bunn, Baltimore, Md., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland**
**No Drawing. Application November 23, 1943, Serial No. 511,474**
**6 Claims. (Cl. 75—178)**

1. Zinc base alloys containing copper, silicon and arsenic within ranges and proportions approximately as follows: copper 0.2 to 5%, silicon 0.05 to 0.6%, arsenic 0.1 to 0.6%, the balance constituting approximately 93.8 to 99.65% of the alloy being substantially zinc, the sum of the percentage amounts of silicon and arsenic present not exceeding the percentage amount of copper present.

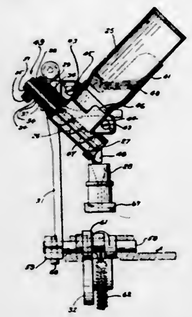
**2,390,690**
**AUTOMOBILE DOOR WINDOW MECHANISM**
**Daniel L. Chandler, Salem, Mass., assignor to The Aresee Company, Inc., Swampscott, Mass., a corporation**
**Application January 25, 1944, Serial No. 519,599**
**5 Claims. (Cl. 268—19)**

1. An improved automobile door mechanism comprising, a door frame having a sliding sash and a swinging ventilator, an electrically operated driving unit mounted in said door comprising a casing, a reversible electric motor mounted in said casing, said motor being connected with a multiple clutch mounted in said casing, said multiple clutch having a central drive member and a frictionally engaged pinion located on each side of the drive member, a rack and pinion member connecting said sash with one of said pinions, a rack and pinion and geared driving rod connected with said swinging ventilator and the other of said pinions, a switch lever member mounted in said casing and door, means com-



prising a cam and slide member located in said casing and connecting with said lever and said clutch for the purpose of locking the pinion connected with said sash rack, another locking means located in said switch casing comprising a second cam and connecting lever engaging with a slide member located in said casing and connecting said lever with said clutch for locking the second said pinion and connecting mechanism to said ventilator, means for engaging said motor in a reversible manner with said clutch comprising a pivoted switch member connected with said switch lever and in circuit with said motor.

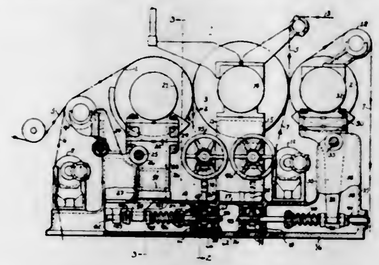
**2,390,691**
**MEASURING DEVICE**
**Lewis D. Christie, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**
**Application April 24, 1943, Serial No. 484,407**
**2 Claims. (Cl. 86—31)**



1. A device for filling an ammunition component with measured quantities of a relatively flowable highly combustible material comprising a reservoir for the material; a worm feeder communicating with said reservoir; a ratchet for rotating said worm feeder a predetermined amount; a rack and pinion means for operating said ratchet; an open cam for moving said rack in one direction and a spring for moving said rack in the opposite direction; adjustable means for limiting the movement of the rack in said last mentioned direction; and means directing the discharge of said feeder to an ammunition component.

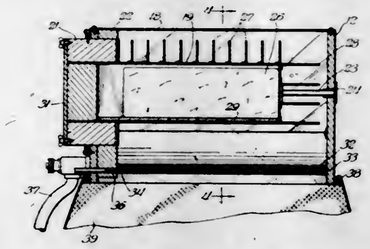
**2,390,692**
**PAPERMAKING MACHINE PRESS ROLL ASSEMBLY**
**Everett W. Clem, Shrewsbury, and Gustaf E. Winter, Worcester, Mass., assignors to Rice Barton Corporation, Worcester, Mass., a corporation of Massachusetts**
**Application December 3, 1943, Serial No. 512,758**
**5 Claims. (Cl. 92—49)**

1. A paper making machine press roll assembly comprising a movable pressure roll and a second roll mounted in parallel axial arrangement with their axes near a horizontal plane for pressing a paper web therebetween, two separate levers pivoted below and carrying the opposite ends of the pressure roll, two separate springs, one associated with each lever and located below the pressure roll axis, which urge the pressure roll towards the other roll, means for leading an endless felt



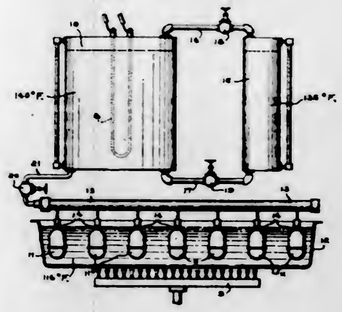
around and beneath the pressure roll, mechanism for independently adjusting the force applied by each of said springs, and mechanism associated therewith for adjusting the springs simultaneously and moving the levers in unison, said springs being so located that the pressure roll may be removed and the felt replaced without disassembling the springs and their adjustment mechanism.

**2,390,693**
**OXYGEN TENT UNIT**
**David J. Cohn, Chicago, Ill.**
**Application March 20, 1942, Serial No. 435,443**
**2 Claims. (Cl. 128—191)**



1. In an oxygen tent unit of the character described, an outer shell and a container for a solid refrigerant, said container having a cross section comprising a number of sides and being so supported within said shell as to be rotatable about its longitudinal axis, exterior fins on at least part of the sides of the container and at least one side being without fins, said shell and container being so constructed and arranged as to provide a generally annular circulation space with intake and outlet positions for tent atmosphere, the cooling effect of the refrigerant being controlled by the position of the said container.

**2,390,694**
**APPARATUS AND METHOD FOR CHARGING CONTAINERS WITH VOLATILE MIXTURES**
**George E. Coyle, Jr., Southampton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 6, 1943, Serial No. 474,921**
**12 Claims. (Cl. 62—1)**



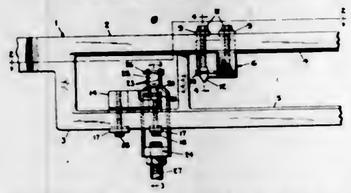
9. Those steps in the method of maintaining a constant proportion of the parts of a mixture being withdrawn from a closed container, which mixture comprises a highly volatile liquid and a relatively nonvolatile substance, which steps comprise providing a supply of said highly volatile liquid in another container so positioned that a common liquid level is maintainable in both containers, the cross-sectional areas of the containers being so proportioned that sufficient volatile liquid will be added to the mixture to compensate for the amount of volatile liquid from the mixture which goes into the vapor phase in the mixture container when mixture is withdrawn therefrom and so that the correct amount of volatile fluid in the other container will vaporize as the level in said other container drops, equalizing the pressures in the two containers and placing the liquid phases in the two containers in communication.

**2,390,695**
**METHOD OF TREATING PAPER STOCK**
**John C. Dean, Douglaston, and Roy T. Edwards, New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**No Drawing. Application April 25, 1942, Serial No. 440,488**
**4 Claims. (Cl. 92—1.6)**

1. That method for the removal of pitchy materials from paper pulp stocks comprising the steps of contacting the stock while in a digested and acid condition with an invert emulsion of a solvent for such pitchy material to substantially dissolve the pitchy material therein, then changing the phase relationships of the emulsion and washing the emulsion, containing dissolved pitch, from the stock.

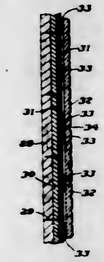


**2,390,696**
**WEIGHING SCALE BEAM**
**William A. Dimick, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois**
**Application April 28, 1945, Serial No. 590,882**
**3 Claims. (Cl. 265—53)**



1. In combination in a weighing scale, a channeled scale beam, an adjustable pivot assembly comprising a block positioned against one horizontal surface of said beam and adapted for adjustment therealong, a retainer bar seating against the opposite horizontal surface of the beam, a clamping bolt extending vertically through the beam and interconnecting said block and retainer bar, and a pivot member secured to said block.

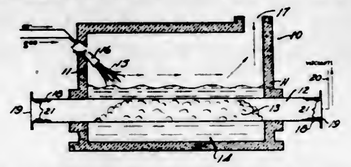
**2,390,697**
**ROOFING OR SURFACING MATERIAL**
**Sidney Lanier Eason, Charleston, S. C.**
**Application July 4, 1942, Serial No. 449,747**
**3 Claims. (Cl. 108—7)**



1. In building construction, an inner course of building material, an intermediate course of backing material nailed thereto, and an exposed course of surfacing sheets disposed in joint-forming relation to each other, the outer face of the backing course and the inner face of said surfacing course carrying solidified coatings of adhesive substance which have cohesive affinity for each other but will not adhere to any surface not similarly treated so that when said surfacing course is pressed against said backing course it will be interiorly adhered thereto by said mutually-contacting treatments.

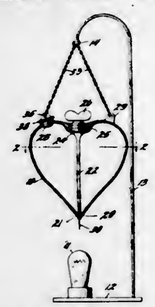
**2,390,698**
**MAGNESIUM RETORT**
**Elbert E. Ensign, Ypsilanti, and Frank G. Shaub, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application August 12, 1942, Serial No. 454,580**
**5 Claims. (Cl. 266—19)**

1. In a reaction furnace, an enclosure, a metal retort tube supported within said enclosure and having a portion extending therefrom, a bath in said enclosure submerging said tube, said bath comprising molten sodium silicate, and means to



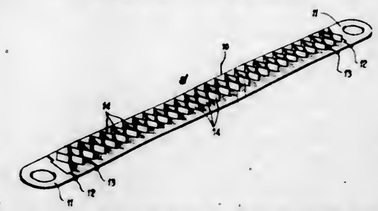
heat said bath to the reaction temperature, said tube being formed of substantially pure iron.

**2,390,699**
**VAPORIZER**
**Marjorie E. Eustathopulo, New York, N. Y.**
**Application March 10, 1941, Serial No. 382,670**
**2 Claims. (Cl. 222—420)**



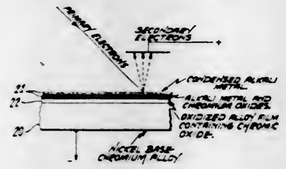
1. In combination, a container having a cylindrical exit opening in its bottom and a conical portion forming a valve seat merging therewith, a stopper for the container, a central regulator having a threaded engagement with the container and carrying a spindle having a conical valve seating in the conical portion of the opening at the bottom of the container, a needle-like extension extending from the spindle thru the opening appreciably beyond the margin of the container, having its largest diameter less than half the diameter of the junction of the conical and cylindrical openings, and means for resiliently suspending the container.

**2,390,700**
**FLEXIBLE BAND KNIFE**
**Phyllis K. Fellner, Los Angeles, Calif.**
**Application October 23, 1944, Serial No. 559,961**
**3 Claims. (Cl. 30—304)**



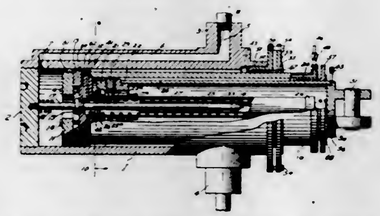
1. A knife comprising a flexible band for encircling the fruit and diamond-shaped blades projecting inwardly from said flexible band in operative position.

**2,390,701**
**SECONDARY ELECTRON EMITTER**
**Warren R. Ferris, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 27, 1943, Serial No. 473,663**
**3 Claims. (Cl. 250—174)**




1. An electrode comprising a foundation of an alloy containing 10% to 20% chromium and the balance metal of the iron group, an oxidized alloy film of which a substantial part is chromic oxide on the surface of said foundation and of a thickness which produces interference colors, and a coating having a ratio of secondary electron emissivity greater than unity and comprising alkali metal condensed on the surface of said film.

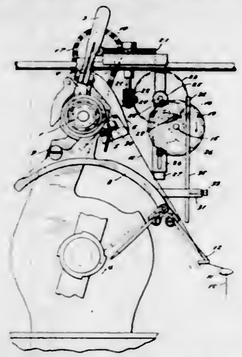
**2,390,702**
**HYDRAULIC HOIST**
**Charles P. Gail, Monrovia, and James B. Kendall, Los Angeles, Calif.**
**Application July 20, 1942, Serial No. 451,674**
**10 Claims. (Cl. 121—46)**



1. A hydraulic hoist comprising, a casing, an outer piston axially slidable within the said casing, pressure fluid, means forcing said fluid against said piston to advance the latter through the casing, a pilot axially extending through the center of said casing, a valve in said piston axially slidable on said pilot and held closed by pressure of the pressure fluid, an inner piston slidable within said outer piston, and a stop on said pilot for checking the movement of said valve at the end of the outer piston advance stroke thereby to cause said valve to open and to admit pressure fluid to the inner piston.

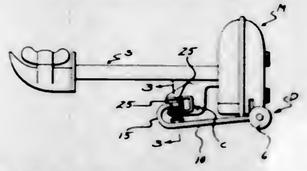
**2,390,703**
**YARDAGE CONTROL MECHANISM**
**John H. Garrott, Bloomfield, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey**
**Application December 17, 1943, Serial No. 514,600**
**10 Claims. (Cl. 242—39)**

1. In a yarn winder having detent mechanism adapted to be disengaged to stop the winder, the combination of a timer wheel geared to the winder to make one complete revolution during the winding of a complete package, detent release means, and a cam mounted on the timer wheel to rotate therewith and with freedom for limited movement



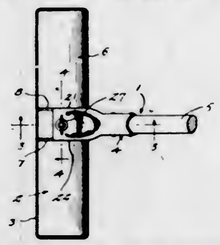
relatively to the wheel, said release means including a member adapted to be engaged by said cam.

**2,390,704**
**OUTBOARD MOTOR DOLLY**
**Armedeo O. George, North Hollywood, Calif.**
**Application November 13, 1944, Serial No. 563,182**
**3 Claims. (Cl. 280—61)**



1. A dolly for an outboard motor comprising an axle, wheels on the axle, a pair of side bars secured at their inner ends to the axle, the outer ends of the bars being bent upwardly and backwardly to present U-shaped portions, and a clamping block secured endwise between said backwardly bent portions to receive the clamping element of an outboard motor.

**2,390,705**
**BRUSH**
**Henry D. Haase, Claremont, Calif.**
**Application March 6, 1944, Serial No. 525,189**
**5 Claims. (Cl. 306—27)**

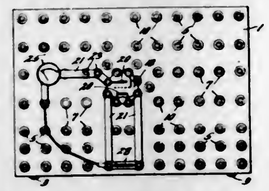


1. A brush including a semi-cylindrical head provided with spaced apart grooves, a shank, side walls depending from the shank having arcuate edges adapted to be seated frictionally within



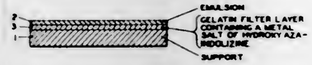
said grooves, a bolt having its head embedded within said head and projecting therethrough, said shank including a tongue having a hole therein through which the bolt projects, ears projecting from the rear of said walls, a pin connecting and secured to said ears, a brace secured at one end to said pin, said shank including a handle socket split throughout its length to form a spring clamp into which a handle can be forced and a screw securing the upper end of the brace to said handle between the split edges of the socket.

**2,390,706**
**DEMONSTRATION APPARATUS**
**Robert J. Hearon, Arlington, Va.**
**Application November 29, 1943, Serial No. 512,231**
**5 Claims. (Cl. 35—19)**



1. In apparatus for demonstrating electrical phenomena, a panel board, a vacuum tube socket mounted on one face thereof, a plurality of connecting jacks mounted on said board and arranged in a circular series about said tube socket, said jacks extending through the board and presenting electrical connection terminals on opposite faces thereof, there being as many jacks as there are tube prong contacts on the socket, means electrically connecting the respective tube prong contacts and said jacks, a diagram plate bearing a pictorial representation of the electrodes of the vacuum tube mounted in said socket, and means for removably mounting said plate on the opposite face of the panel and overlying that area of the panel opposed to said socket with the respective electrodes represented thereon disposed in juxtaposed relation to the jack members which are in circuit with the actual electrodes of the tube in said socket.

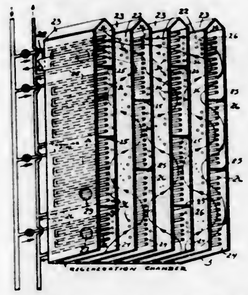
**2,390,707**
**PHOTOGRAPHIC FILTER AND ANTI-HALATION LAYERS**
**Newton Heimbach, Johnson City, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**Application April 19, 1944, Serial No. 531,770**
**11 Claims. (Cl. 95—8)**




1. A photographic material which comprises a support, a light-sensitive gelatino-silver halide emulsion and a filter layer containing a silver salt of a hydroxy aza-indolizine in which the nuclear carbon atom adjacent to the five-membered heterocyclic ring of the aza-indolizine nucleus is substituted by a hydroxy group, the hydrogen atom of which is replaced by silver and which compound contains at least one chromophoric group and at least one water solubilizing group.

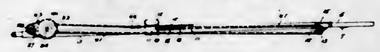


**2,390,708**
**REGENERATING CONTACT MATERIAL**
**Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Original application April 1, 1939, Serial No. 265,388. Divided and this application April 19, 1943, Serial No. 483,602**
**22 Claims. (Cl. 252—242)**



13. A method of regenerating solid contact material which has become contaminated with carbonaceous deposits, which comprises passing the contact material by gravity in a relatively thin moving bed through a regeneration zone, passing an oxidizing gas through the moving bed in a direction generally across the bed, passing the oxidizing gas over cooling tubes alongside the moving bed and containing a heat exchange medium so that heat is absorbed from the oxidizing gas, passing the cooled oxidizing gas through the bed and again cooling the gas.

**2,390,709**
**PORTABLE DRILL SUPPORT**
**James A. Henderson, Empire, Oreg.**
**Application March 17, 1944, Serial No. 526,971**
**1 Claim. (Cl. 255—51)**

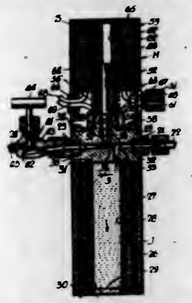


In a portable jack hammer support, an elongated frame embodying a rod formed into a substantial U-shaped member, the ends of the rod converging and being secured together providing a wide extension at the forward end of the frame adapted to be positioned in a pilot opening in the surface being bored, supporting the frame, laterally spaced spurs extending downwardly from the extension, adapted to dig into the wall of the pilot opening securing the frame against twisting, and a carriage on the frame to which a jack hammer is secured and fed to its work.

**2,390,710**
**DENTAL ENGINE ACCESSORY EQUIPMENT**
**Chester J. Henschel, New York, N. Y.**
**Application July 18, 1944, Serial No. 545,499**
**6 Claims (Cl. 32—28)**

1. In a dental engine installation of the type which includes an electric motor, a dental tool driven therefrom and a spray bottle electric heater well; the combination of a feed unit for feeding fluid under pressure, said unit being removably located in heat absorbing relationship with the heater of the well, said unit having an inlet, an outlet, a connection from the latter to the dental tool, a valve constituting an element

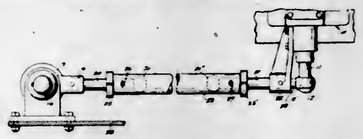
of the feed unit and at the upper part thereof for interrupting the flow from said inlet to said outlet and electric control equipment adjacent to



said valve and also constituting part of the feed unit and adapted to open said valve when the motor is in circuit.

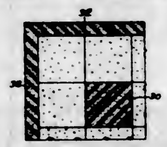
---

2,390,711
**REMOTE CONTROL FOR VARIABLE-SPEED TRANSMISSION**
**John G. Holmstrom, Seattle, Wash., assignor to Kenworth Motor Truck Corporation, Seattle, Wash., a corporation of Washington**
**Application November 26, 1943, Serial No. 511,891**
**6 Claims. (Cl. 74—473)**



1. In a variable-speed transmission assembly providing a transversely disposed control shaft fitted with a controlling lever arm, the shaft being supported for endwise and rocker movements with the said endwise movement acting to select and the said rocker movement to change the gears in accordance with the selection, and having a remote-control shift-lever longitudinally removed from the transmission and providing an activating lever arm whose free end, by operation of the shift-lever, is selectively moved in either a transverse or a longitudinal direction, the combination with said control shaft and its lever arm, and with the lever arm of the shift-lever: a stud disposed in proximal and fixed relation to the fulcrum of the shift-lever pointing in the general direction of the transmission and occupying a position spaced above the free end of the activating lever arm midway between the two extremes of the latter's transverse movement; a complementing and opposingly disposed stud mounted in proximal and fixed relation to the rocker axis of the transmission's lever arm and occupying a position midway between the extremes of the latter's axial movement above the free end thereof; and a tube of a length exceeding the span between said studs introduced between the transmission and the shift-lever and having its ends journaled for both rocker and endwise movements over the studs, and formed upon each said end with a crank extension of which the one connects by its free end with the free end of the activating lever arm and the other by its free end with the free end of the transmission's lever arm.

2,390,712
**DECORATIVE MATERIAL AND METHOD FOR PRODUCING THE SAME**
**Houlder Hudgins, Greenwich, Conn., assignor to Sloane Blabon, Trenton, N. J., a corporation of New Jersey**
**Application February 11, 1943, Serial No. 475,572**
**6 Claims. (Cl. 154—26)**



1. Floor covering or the like comprising a layer of backing material having secured thereto a plurality of blocks or tesserae each of which embodies a layer of thermo-plastic supporting material that is continuous throughout the block and located adjacent the backing material and has the upper surface thereof completely covered by a single layer of decorative material embodying a plurality of differently colored individual, cut pieces of thermo-plastic material which are complementary in shape and arranged in predetermined position in the block and side by side in said layer so as to have abutting sharply defined cut edges bonded together and presenting a straight-line inlaid design.

---

2,390,713
**ALKYLSULPHENYL DITHIOCARBAMATES**
**Madison Hunt, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application March 16, 1944, Serial No. 526,816**
**6 Claims. (Cl. 260—567)**

1. An alkylsulphenyl dialkyldithiocarbamate.

---

2,390,714
**ROTARY TOOL BOOSTER**
**Arthur E. Johnson, Taft, Calif.**
**Substituted for abandoned application Serial No. 480,256, March 23, 1943. This application September 8, 1945, Serial No. 615,151**
**2 Claims. (Cl. 255—27)**



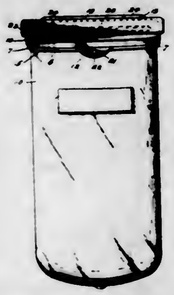
2. A tool string assembly for jarring objects in a well hole and including a cylinder connectible



at one of its ends to a relative string section and having an internal, rigid, fast pitch screw thread and carrying a hammer part, a mandrel telescopically and turnably fitting in the cylinder and having a rigid thread complementary to and constantly meshing with the said cylinder thread and the mandrel having an anvil part to be struck by the hammer part under tension of the thread connected cylinder and mandrel, said meshing threads setting up mutual frictional resistance against relative axial shift of the cylinder on the mandrel, and a trippable device to lock the cylinder with the hammer spaced from the anvil and which is released by a desired string tension in the assembly; said threads operative to maintain a substantial degree of the initial tension in the assembly after hammer release by said device, whereby to effect the impinging stroke of the cylinder with its hammer.

---

2,390,715
**MAILBOX**
**Clifford E. Jones, Peru, Ind.**
**Application March 20, 1944, Serial No. 527,254**
**3 Claims. (Cl. 248—312)**

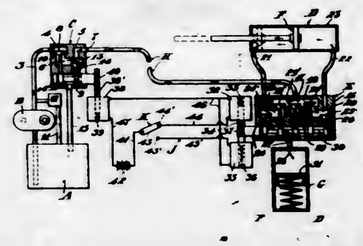


1. A receptacle supporting and covering means comprising a substantially horizontal yoke to surround the upper end of a receptacle and support the same, the rear portion of said yoke having a pair of attaching eyes both disposed in a single vertical plane, a horizontal cover-mounting rod above said rear portion of said yoke and having downwardly projecting ends, said ends being provided with a pair of attaching eyes disposed in a vertical plane, these eyes being disposed against and in alinement with the aforesaid pair of eyes, whereby fasteners may be passed through the two pairs of attaching eyes and into a support to fixedly secure said yoke and rod, a support, and a receptacle cover hingedly mounted directly on said rod to swing upwardly from the fixedly secured yoke.

---

2,390,716
**POWER PUMP OPERATED SINGLE LINE HYDRAULIC SYSTEM**
**John William Kelly, La Canada, Calif., assignor to Adel Precision Products Corp., a corporation of California**
**Application May 8, 1944, Serial No. 534,638**
**10 Claims. (Cl. 60—52)**

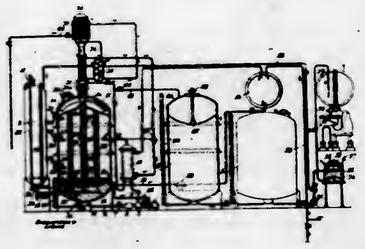
10. In a hydraulic system, a main reservoir, a pump having its intake connected to said main reservoir, a three-way valve at the discharge side of said pump and having communication with said reservoir, an actuating means for said valve operable to hold it normally open to said reservoir and closed against the discharge of said pump, a reversible hydraulic motor, a sub-reservoir, a flow reversing valve operably connected to said hydraulic motor and said sub-reservoir, a single fluid conduit extending between said valves, means for simultaneously operating said valves, said means being constructed and arranged to selectively shift said flow reversing valve from a normally-occupied neutral position and to open



said three-way valve to said pump discharge and to close it to said reservoir, thereby effecting movement of said hydraulic motor, and means associated with said flow reversing valve operable to permit fluid discharged from said motor to be stored in said sub-reservoir under pressure, said flow reversing valve including means operable automatically to effect the return of fluid from said sub-reservoir through said single fluid conduit to said main reservoir during periods when said flow reversing valve is in neutral position.

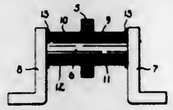
---

2,390,717
**MANUFACTURE OF VINEGAR**
**Ernst Julius Bruno Knebel, Upsala, Sweden**
**Application January 11, 1943, Serial No. 472,065**
**In Sweden August 21, 1940**
**8 Claims. (Cl. 99—245)**



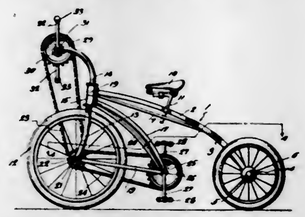
1. In an apparatus for manufacturing vinegar of the kind described the combination of a fermenting vessel having a vapour outlet at the top thereof, an external circulation conduit connected with the lower part of said fermenting vessel, and with a nozzle arranged in the said vapour outlet to introduce the mash therein so as to condense and cool vapours in the outlet, and means to convey fermenting mash through said conduit from the lower part to the outlet of said fermenting vessel and a distributing device arranged in the interior of the fermenting vessel at the top thereof the supply of which opens into the vapour outlet.

**2,390,718**
**OVERLOAD CIRCUIT BREAKER**
**Clarence W. Kuhn, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware**
**Application October 27, 1943, Serial No. 507,815**
**7 Claims. (Cl. 200—124)**



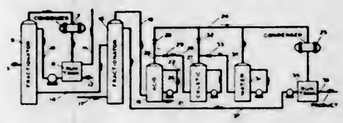
7. A thermal restraining device for electric switches and other devices, comprising a core member having supporting terminals restraining the same against rotation, said core member comprising high resistance material and having intimately bonded thereto an oxide insulating covering extending from terminal to terminal and a second covering of substantially like extent and of material intimately bonding with said oxide covering and affording a bonding surface for solder, said two coverings having a combined thickness of the order of .002 inch, a film of solder bonded to said second covering and an element rotatable about said core member and having a sleeve bonded to said covered core member through the medium of said solder film subject to release upon melting of said film, said core member affording a current conducting path of uniform conductivity from terminal to terminal and having surroundings minimizing danger of hot spots therein when subjected to current flow of the order of a short-circuit.

**2,390,719**
**TRICYCLE**
**Fred W. Kurth, Farmingdale, N. J.**
**Application December 28, 1944, Serial No. 570,160**
**2 Claims. (Cl. 280—234)**



1. A tricycle comprising a frame having a vertical bearing at its front end and forks at its rear end, a rear axle carried by said forks, wheels carried by the rear axle, front forks having a shank extending upwardly therefrom and journaled through the bearing, a transverse bearing at the free end of said shank, a front wheel having an axle rotatably carried by the front forks, a bar extending rearwardly from the shank over the front wheel and downwardly back of the front wheel, a bearing at the rear end of said bar, a crank shaft journaled through the bearing of said bar and provided with pedals for engagement by the feet of a rider, a crank shaft journaled through the bearing of said shank and provided with handles for gripping by the rider, sprockets carried by the crank shafts and the front axle, and chains trained about said sprockets.

**2,390,720**
**PROCESS FOR THE SEPARATION OF HYDROCARBONS**
**John W. Latchum, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application November 11, 1943, Serial No. 509,892**
**5 Claims. (Cl. 260—676)**



1. A process for the separation of paraffins comprising chiefly 2,2,4-trimethylpentane from a mixture of hydrocarbons containing 2,2,4-trimethylpentane and olefins comprising fractionally distilling said mixture to produce an overhead stream of hydrocarbons containing 2,2,4-trimethylpentane in concentration together with close boiling olefins, contacting said stream with sulfuric acid of sufficient concentration to remove substantially all olefins from said stream, withdrawing a part of the resulting treated hydrocarbon stream as product, and passing a part of said treated stream of hydrocarbons in liquid phase to the fractional distillation as reflux therefor.

**2,390,721**
**NONMETALLIC FERRULE FOR CAPS OF CONTAINERS**
**Ferdinand Maligraf, Little Neck, N. Y.**
**Application May 25, 1942, Serial No. 444,482**
**1 Claim. (Cl. 215—43)**

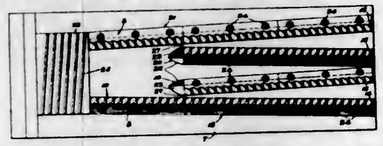


A non-metallic cap for containers of the character described, comprising a three layer ferrule member having two inner layers and an outer layer and being formed from a tape-like strip of paper-board having laterally spaced thread portions pressed in one end of said strip with flat surfaces between said thread portions, the other end of said strip being without any thread, said flat surfaces between said thread portions having glue applied thereto, said strip being wound to form said three layer ferrule member, said thread portions being in said two inner layers with the thread portions of each of said two inner layers being in registration with each other, and said outer layer having no thread and providing means for any suitable covering for the complete cap, said glue securing said two inner layers and said outer layer together.

**2,390,722**
**SURFACE BROACH**
**John A. Markstrum, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan**
**Application June 26, 1942, Serial No. 448,597**
**11 Claims. (Cl. 29—95.1)**

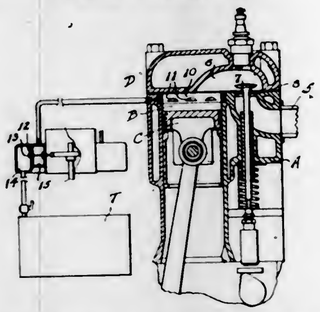
1. A surface broach comprising, in combination, a rectilinearly movable support, an elongated broach section removably mounted on said support and having a longitudinal series of transverse teeth of uniform height and width extending completely across the body of said section and chamfered at opposite ends to provide oppositely inclined side cutting edges and intermediate top cutting edges, and means for securing said section to said support in a longitudinally





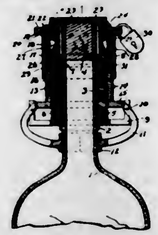
inclined position and laterally tilted at the angle of said side cutting edges to present one set or the other of said side cutting edges of said series of teeth to the work.

**2,390,723**
**INTERNAL-COMBUSTION ENGINE**
**Raymond H. Masters, Salt Lake City, Utah**
**Application April 14, 1943, Serial No. 483,034**
**1 Claim. (Cl. 123—76)**



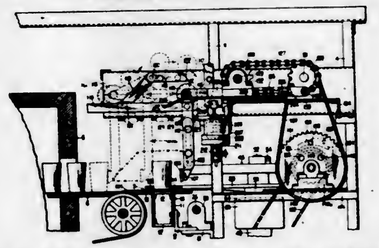
A power charger for an internal combustion engine comprising a valve for the cylinder, said valve being opened by timed means to cause a forced draft, or air under compression, to be introduced into the cylinder at predetermined intervals and an annular distributing hollow ported member mounted between the cylinder and the cylinder head to distribute the air into the cylinder in the proper directions for best performance.

**2,390,724**
**BOTTLE CLOSURE RETAINER**
**Wilburt W. Mays, Steelton, Pa.**
**Application December 1, 1943, Serial No. 512,507**
**6 Claims. (Cl. 215—98)**



1. The combination with a bottle neck having an external bead and a stopper: cover members; a support embracing the bottle neck to which support said members are hinged; a bottle neck gripper carried by said support; and means mounted on said support for applying said gripper into holding contact with said neck below said bead; means for holding said cover members closed; and means for securing said gripper applying means unmovably in a gripper applying position.

**2,390,725**
**LEHR LOADER**
**William L. McNamara, Lancaster, Ohio, and James McFee, Camp Cooke, Calif., assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware**
**Application August 17, 1942, Serial No. 455,136**
**9 Claims. (Cl. 198—31)**



1. A lehr loader of the pusher bar type comprising a supporting frame, a cross conveyer mounted on said frame, means carried by the frame for driving said cross conveyer continuously, a pusher bar extending longitudinally of said conveyer, means for supporting said pusher bar for movement in a closed path transversely of the conveyer whereby the bar will move behind a row of articles and push them transversely off the conveyer, said means including trackways supported by the frame and rollers which support said pusher bar and operate on said trackways, said trackways each comprising a horizontal lower portion and a horizontal upper portion disposed in spaced relationship, said upper portion being shorter than the lower portion, a pivoted track section having its upper end pivoted to the forward end of said upper portion and its lower end resting on the lower portion, said lower portion having a vertical section adjacent its rear end spaced from the rear end of the upper portion, means including endless chains for moving said rollers along said trackways, and means for connecting said rollers to said chains.

**2,390,726**
**THREADED FASTENER**
**Robert Mitchell, Detroit, Mich.**
**Application October 20, 1942, Serial No. 462,685**
**12 Claims. (Cl. 151—7)**



1. A threaded fastener, comprising a body portion having a threaded bore extending inwardly from one side thereof, said bore terminating in an enlarged bore extending to the opposite side of the body portion, a series of serrations formed on the wall of the enlarged bore, a fibre insert having serrations meshing with the serrations on the wall of the bore and a disk received in said bore to anchor the insert in position, said insert

having an unthreaded opening of a smaller diameter than the diameter of said bore and said disk being provided with a threaded opening of the same diameter as the threaded bore in the body member.

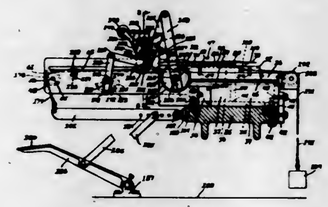
---

2,390,727
**TREATMENT OF BLOOD**
**Maurice M. Nesset, Glenview, Ill., assignor to Baxter Laboratories, Inc., Glenview, Ill., a corporation of Delaware**
No Drawing. Application August 15, 1942, Serial No. 454,931
3 Claims. (Cl. 167—78)

1. A method for obtaining the bulk of the plasma from blood in a single treatment, comprising mixing untreated blood with an anticoagulant and a minor proportion of methyl cellulose, thoroughly distributing the anti-coagulant and the methyl cellulose throughout the blood, maintaining the mixture in a quiescent state for a period of time sufficiently long to permit settling of the blood cells and the formation of separate layers of plasma and blood cells and thereafter separating the plasma from the blood cells.

---

2,390,728
**ORNAMENTING MACHINE**
**Charles E. Newton, Marlboro, Mass., assignor to Benjamin W. Freeman, Cincinnati, Ohio**
Application May 13, 1940, Serial No. 334,915
13 Claims. (Cl. 101—316)

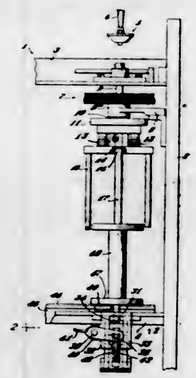


1. In a marking and cutting die structure, the combination with a support, a stripper plate mounted for movement toward and away from the support, marking and cutting dies mounted on the support, each die having a base portion and the marking edges of the marking die being normally in a retracted position with respect to the plane of the cutting edges of the cutting die, of means, forming part of the die structure and including flat springs having portions interposed between the two die base portions and engageable with the marking die base portion, actuable by the stripper plate during its movement toward the support to move the marking die so that its marking edges approach the plane of the cutting edges.

---

2,390,729
**TEXTILE TWISTING MACHINE**
**Gustaf Eugen Nordstrom, Gardner, Mass., assignor to American Fibre Corporation, Gardner, Mass., a corporation of Massachusetts**
Application June 2, 1944, Serial No. 538,351
12 Claims. (Cl. 57—54)

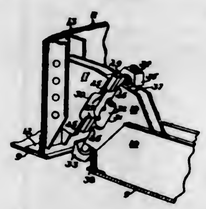
1. A twisting machine of the kind in which the strand material is twisted and wound by a flyer upon a tubular support to form a package, and wherein the tubular support is arranged to turn on a normally fixed spindle and is moved axially of the spindle, thereby to distribute the strand material and wherein the upper end of the spindle is normally held in a socket coaxial with the flyer, characterized in having a support for the lower end of the spindle, said support being mounted to swing about an axis transverse of the



spindle, a latch normally operative positively to prevent swinging of the support, the support having therein a bearing in which the spindle may move axially, spring means opposing downward movement of the spindle, and a single manually actuable element operative concomitantly to withdraw the latch, thereby to permit the support to be swung, and to move the spindle downwardly thereby to disengage its upper end from the socket.

---

2,390,730
**AIRPLANE STRUCTURE**
**John K. Northrop, Los Angeles, and Vladimir H. Pavlecka, Pacific Palisades, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California**
Application June 10, 1940, Serial No. 339,645
6 Claims. (Cl. 244—124)

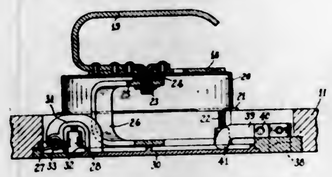


1. A monocoque type airfoil comprising a plurality of beam components; each beam component having a plurality of spaced rib arches extending transversely thereof, a web extending longitudinally thereoof in a position to lie adjacent the extremities of rib arches of an adjacent beam component, and a monocoque skin secured to said spaced rib arches; means for removably securing said beam components together along said webs and within the profile of said airfoil, with the monocoque skin of one beam component terminating in spaced relationship to the monocoque skin of the adjacent beam component to form a gap for access to said securing means; and a skin insert bridging said space and lying substantially flush with the skin of each of said adjacent beam components.



---

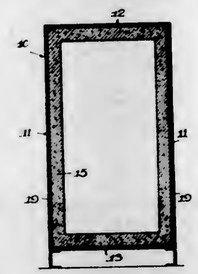
2,390,731
**AIRPLANE DOOR LOCK**
**Samuel Oxhandler, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut**
Application May 24, 1943, Serial No. 488,111
3 Claims. (Cl. 292—37)



1. In combination with a door having an opening therethrough, a cup-shaped mounting member secured at the inner surface of the door in a position to face said opening, a bolt-operating member rotatably mounted on the base of said mounting member, an inner handle secured to said operating member and having a hub projecting through the base of said mounting member, and an outer handle secured to the projecting end of said hub and lying within the space provided by said mounting member and by the opening through the door.

---

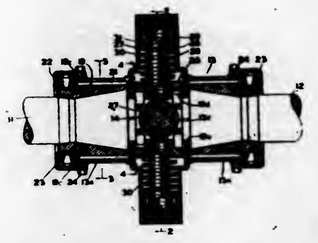
2,390,732
**FIRE-RESISTING CABINET**
**John H. Page, Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan**
Application July 3, 1944, Serial No. 543,402
4 Claims. (Cl. 109—84)



1. In a fire-resisting container, an outer metal casing having an associated molded hydrous lining of heat-resisting material, and a quantity of vermiculite in its natural unexpanded state disposed in a relatively thin layer between said casing and its lining so as to increase the effective thickness of the insulation within said casing when said vermiculite becomes expanded under abnormal heat.

---

2,390,733
**AIRPLANE PROPELLER**
**Edward W. Perry, Euclid, Ohio, assignor of thirty percent to Wallace A. Stuart, Cleveland Heights, and thirty percent to Theodore F. Schilling, Elyria, Ohio**
Application April 13, 1942, Serial No. 438,775
4 Claims. (Cl. 170—162)

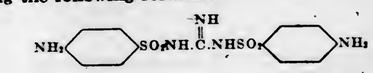


1. In a variable pitch propeller, the combination of an engine shaft, a hub rotatable with said shaft, two axially alined propeller blades carried by said hub with their inner ends spaced apart, said blades having mountings in said hub preventing axial movement of said blades and permitting blade rotation to vary the blade pitch angle, rigid pitch-controlling block members one on each side of said shaft and movable at right angles to the axes of said blades in the space between the inner ends of said blades, block members rigid with the inner ends of said blades, interlocking cam and follower pairs forming operative connections between each of said first named block members and each of said second named block members so arranged that movement of said pitch-controlling members away from said shaft turns said blades in pitch-increasing direction, and yieldable means resisting said movement of said pitch-controlling members.

---

2,390,734
**DISULPHANILYLGUANIDINE AND PROCESS OF PREPARING SAME**
**Alan E. Pierce, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
No Drawing. Application May 17, 1944, Serial No. 536,021
4 Claims. (Cl. 260—397.7)

1. The compound, disulphanilylguanidine having the following formula:

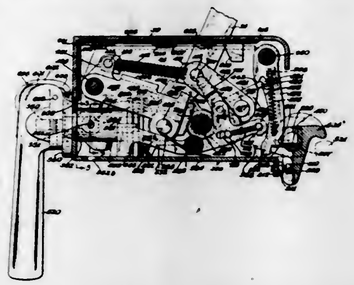



---

2,390,735
**CIRCUIT BREAKER OPERATING MECHANISM**
**Frank J. Pokorny, Philadelphia, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
Application June 10, 1940, Serial No. 339,682
12 Claims. (Cl. 200—89)

1. A movable contact having a circuit closing and a circuit opening position, spring means for normally urging said movable contact to opening position; a latch having a locking position for normally locking said contact in closing position and also having a tripped position; a toggle mech-

anism having a collapsed and a set position; link members for operating said movable contact, a direct mechanical connection from said toggle mechanism to said link members, a direct mechanical connection from said latch to said link members bipassing said toggle mechanism whereby either said latch or toggle members independently operates said movable contact to open po-

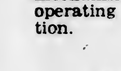


sition; means for tripping said latch to permit said spring means to operate said contact to open position, said toggle mechanism collapsing in response to the operation of said contact to its open position for resetting said latch in its set position; and means for resetting said toggle mechanism, with said latch in its set position, for operating said contact to circuit closing position.

---

**2,390,736**
**KETONIC ROSIN DERIVATIVES**
**Donald Price, New York, N. Y., and Everette L. May, Chevy Chase, Md., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey**
**No Drawing. Application December 3, 1943, Serial No. 512,840**
**18 Claims. (Cl. 260—97)**

1. A compound having the formula:



wherein A represents the residue of a rosin substance selected from the group consisting of rosin, hydrogenated, dehydrogenated, disproportionated and decarboxylated rosin; the free acids corresponding to rosin and hydrogenated, dehydrogenated, and disproportionated rosin; and esters of the aforementioned acids; and

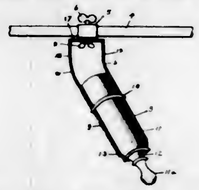


represents a fatty residue containing from 8 to 22 carbon atoms.

---

**2,390,737**
**BABY'S BOTTLE HOLDER**
**Garold W. Prosser, Rock Island, Ill.**
**Application December 13, 1943, Serial No. 514,048**
**1 Claim. (Cl. 248—103)**

A device of the class described, comprising a frame formed of a pair of parallel spaced wires and circular wires connecting the same centrally and at one end, with the end one of a diameter preventing the passage of a bottle, formed at its rear end into a vertical support by a pair of integral wire connections of varying length calculated to cause an incline of the bottle-holding frame with the side of a bed, a clamp adapted for connection with the side of a bed and the like,



and means on said clamp for engagement with said vertical support, to hold the same fixedly in place.

---

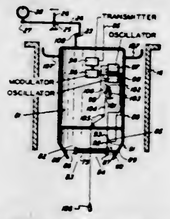
**2,390,738**
**GRENADE LAUNCHER**
**Peter B. Rutherford and Donald R. Luster, Herkimer, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**
**Application June 25, 1943, Serial No. 492,254**
**6 Claims. (Cl. 42—1)**



1. A device for launching projectiles from a firearm comprising a tube; a sleeve slidable thereon; resilient means on said tube constructed and arranged to resist sliding movement of said sleeve on said tube; and means on said sleeve for fastening said tube to said barrel by sliding said sleeve on said tube against the resisting force of said resilient means.

---

**2,390,739**
**SYSTEM AND APPARATUS FOR MEASURING CLOUD HEIGHT AND THICKNESS**
**Serge Alexander Scherbatskoy, Tulsa, Okla.**
**Application October 15, 1942, Serial No. 462,152**
**12 Claims. (Cl. 250—1)**



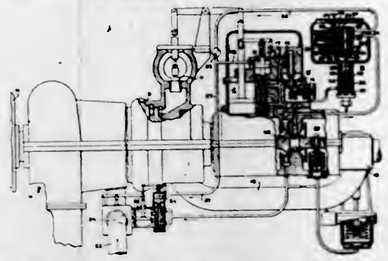

1. In a system for determining the distance from a base of a cloud to the earth's surface or the surface of a body of water in the territory below an aircraft; radio signal translating means in said aircraft; and a radio signal transmitting device releasable from said aircraft to fall at a known speed and operative to transmit signals to said signal translating means during at least a part of its falling movement, said device including means responsive to the emergence of said device from the base of a cloud for causing said signal translating means to provide one indication, and means responsive to the subsequent contacting of at least a portion of said device with the earth's surface or the surface of a



body of water for causing said signal translating means to provide a different indication; whereby the elapsed time between said indications provides an indication of the distance between the base of said cloud and the surface contacted by said part of said device.

---

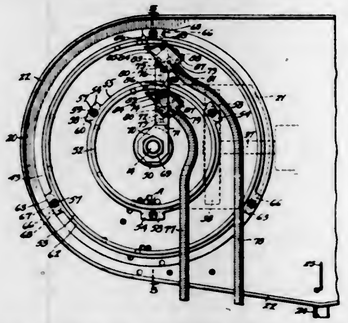
**2,390,740**
**GOVERNING APPARATUS**
**Anthony F. Schwendner, Ridley Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 26, 1942, Serial No. 444,538**
**9 Claims. (Cl. 60—43)**



7. In a turbine installation having a throttle valve closed in response to a predetermined overspeed, a governor valve; an induction passage for supplying steam to an intermediate stage of the turbine installation; an induction valve for controlling the flow of steam through the induction passage; primary and secondary governors operated by the turbine installation; and means actuated by each governor for controlling both the governor and induction valves; said secondary governor including means for adjusting its speed setting, means for reducing the speed change thereof due to load change, and means for adjusting the last-named means.

---

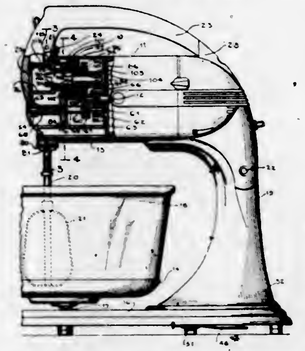
**2,390,741**
**GAUGING MACHINE**
**Wilson W. Scott, Independence, Mo., and Clifford L. Lewis, Hanford, Wash., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**
**Application February 10, 1944, Serial No. 521,860**
**15 Claims. (Cl. 209—90)**



1. In a gauging machine for gauging the height of articles placed therein, a rotatable hopper having a base and an annular side wall, there being an annular height-gauging gap between said side wall and said base, whereby articles of a height corresponding to said gap are caught therein while articles of less height pass through said gap, removable spacer bearing means between said base and said side wall arranged out of the annular path of said gap adapted to determine the height of said gap, and article removing and conveying means including a stationary part disposed and extending into said gap in the path of articles carried therein adapted to remove positively such articles therefrom to said conveying means.

---

**2,390,742**
**FOOD MIXER**
**Sidney N. Setterlund, Fort McClellan, Ala., assignor to A. F. Dormeyer Mfg. Company, Chicago, Ill., a corporation of Illinois**
**Original application November 3, 1939, Serial No. 302,732. Divided and this application July 21, 1942, Serial No. 451,781**
**16 Claims. (Cl. 74—301)**



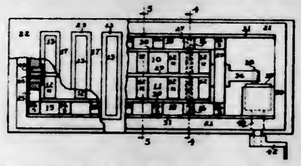
1. In a food mixer having a transmission housing, a power unit the shaft of which has a gear upon one end thereof extending into the housing, a pair of gears in speed reduced engagement therewith upon opposite sides thereof, a shaft driven by each gear disposed parallel with each other on opposite sides of the power unit shaft, a multi-thread worm upon one of the driven shafts, spaced worm wheels disposed proximate the front of the housing upon opposite sides of the worm for rotation in opposite directions and driving shafts for supporting a plurality of beaters thereon, a driving gear upon each of said driven shafts, a gear driven by one of the driving gears driving in turn another gear with which is meshed a differential gear in mesh with the other of said driving gears, and means for driving a power take-off shaft from the differential gear.

---

**2,390,743**
**PERMANENT MAGNET HOLDING DEVICE**
**Frank L. Simmons, Woonsocket, R. I.**
**Application May 5, 1943, Serial No. 485,740**
**10 Claims. (Cl. 175—367)**

4. A magnetic holding device comprising a work plate having two sets of alternately arranged, spaced pole pieces provided with lower contact surfaces, a single massive permanent magnet forming one arm of a U shaped magnet unit, a non-energizing magnetic metal body of high

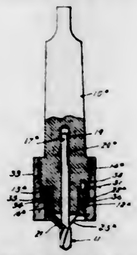
permeability which is connected magnetically to the lower pole of said magnet and is arranged to form a second arm of the unit, each arm extending lengthwise beneath the two sets of work plate pole pieces, a plurality of spaced polar face members which are always connected magnetically to each of the two arms and provide a set of spaced terminal polar faces for each arm, the polar faces of the terminal members of one arm contacting with the lower surfaces of alternate pole pieces of the work plate when in an opera-



tive position and the polar faces of the terminal members of the other arm contacting simultaneously with the remaining pole pieces, said members being movable relative to the work plate to positions where they contact simultaneously with the surfaces of adjacent pole pieces and thus form a shunt path for the flux, and means for moving the members to and from the operative and flux shunting positions while they remain magnetically connected to the magnet and said metal body.

---

**2,390,744**
**DRILLING AND COUNTERSINKING TOOL**
**Lawson A. Smith, Los Angeles, Calif., assignor to Robert H. Clark, Los Angeles, Calif.**
**Application December 23, 1942, Serial No. 469,860**
**7 Claims. (Cl. 77—66)**

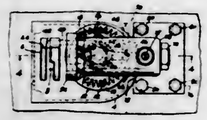


2. A drilling and countersinking tool including an elongate body having a reduced stem projecting from its forward end and an opening extending longitudinally through the stem and adapted to receive a drill so that the drill projects from the end of the stem, a member surrounding the stem to be removably supported thereon, countersink cutting parts projecting axially from said member and adapted to engage about the drill, and a collar threaded directly on the exterior of the body and engaging the member to clamp it against said end of the body.

---

**2,390,745**
**TRIMMING AND PINKING DEVICE AND THE LIKE**
**Nellie C. Smith, Santa Barbara, Calif.**
**Application April 26, 1943, Serial No. 484,665**
**4 Claims. (Cl. 112—124)**

1. In a device of the class described comprising a mounting plate means, a circular plate means disposed over said mounting plate means, a stem means in said circular plate means extending downwardly therefrom, a locating bushing means disposed at said stem means, a collar means disposed around said locating bushing means, a plurality of frictionless ball bearings disposed between said locating bushing means and said collar means and at the under side of said circular plate means, a scalloping cutting edge means circularly disposed upon the top surface of said circular plate means, a pressure roller means disposed over and bearing against said cutting edges



of said scalloping edge means, an extension lever connected to and extending out of said collar means having the extended end disposed at the rear section of the feed bar member and adapted for turning said circular plate means about its stem center and in relation to the reciprocal movement of the feed bar member of the sewing machine, a bar extending out of said collar means, and a spring connecting said bar and the base plate of said sewing machine for maintaining said extension lever against said feed bar member of said sewing machine.

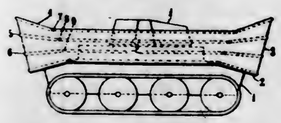
---

**2,390,746**
**SOLUBLE SULPHUR PREPARATIONS**
**Frank E. Stirn, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware**
**No Drawing. Application February 19, 1944, Serial No. 523,109**
**5 Claims. (Cl. 260—125)**

1. A composition of matter comprising the reaction product obtained by heating under anhydrous conditions from one to three parts by weight of calcium oxide, one part by weight of sulphur, and a polyhydric alcohol within the range of 100–150° C.

---

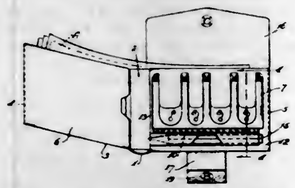
**2,390,747**
**MEANS FOR IMPARTING BUOYANCY TO VEHICLES**
**Nicholas Straussler, London S. W. 1, England**
**Application March 13, 1942, Serial No. 434,604**
**In Great Britain October 19, 1940**
**10 Claims. (Cl. 114—65)**



1. A device for imparting buoyancy to a vehicle comprising a superstructure arranged about the exterior of the vehicle and having a bottom extending round and secured to the sides thereof, a continuous wall of flexible material, secured by one margin to said bottom and mechanical means for extending said wall upwardly and supporting it in extended position.



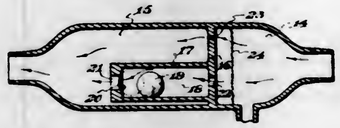
**2,390,748**
**COMBINED COIN PURSE AND BILLFOLD**
**Nels H. Swanson, Chicago, Ill.**
**Application March 25, 1943, Serial No. 480,465**
**3 Claims. (Cl. 150—35)**



1. A purse which includes an outer wall and an inner wall secured together at their ends and lower margins and forming a pocket between them which is open at the upper side, said pocket being foldable along a line midway between its ends and perpendicular to its open side, a hinge of flexible sheet material secured to the inner face of said pocket between one end and said perpendicular line of fold, a rigid coin rack of substantial thickness attached to the upwardly extending free portion of said hinge and opening in the same direction as the pocket, the portion of the hinge below its securement to the pocket forming a tube open at one end, a flap extending upwardly from a portion of the outer wall adjacent one end and foldable over the open side of the pocket and against the portion of said outer wall adjacent the other end, and a strap extending downwardly from said first mentioned portion of the outer wall and foldable upwardly around the lower edge portions of the pocket, coin rack and tube, together with means for detachably securing said flap and said strap together.

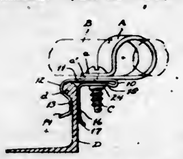
---

**2,390,749**
**STEAM TRAP GOVERNOR**
**Bert Swift, Tulsa, Okla.**
**Application June 18, 1943, Serial No. 491,356**
**1 Claim. (Cl. 251—121)**



An excess flow valve device comprising a casing having an enlarged central portion, a transverse partition in said enlarged portion spaced from the ends thereof and dividing the same into an enlarged upstream chamber and an enlarged down stream chamber, a horizontally disposed chambered valve cage carried at one end by said partition and entirely supported thereby and extending horizontally into the down stream chamber, a ball valve in said cage cooperating with a port in the free end of said valve cage, said ball having a rolling contact bearing on the bottom of the chamber of the cage, a port for admitting fluid to the valve cage chamber through the partition, means for admitting fluid from the up stream chamber to the down stream chamber through the partition above the valve cage said ports of the cage and partition being below the axis of the casing.

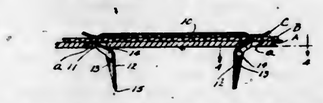
**2,390,750**
**FASTENING DEVICE**
**George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application March 8, 1943, Serial No. 478,354**
**11 Claims. (Cl. 85—36)**



1. A fastening device comprising a strip of spring material doubled on itself to provide an intermediately located doubled portion and two projecting legs extending in the same general direction at an angle to the intermediate portion, said legs lying alongside of each other and adapted to embrace a support between their opposed side faces, there being registering bolt openings through the members of the intermediate doubled portion and thread-engaging means carried by one of said members about the bolt opening, whereby a single bolt may serve to attach a device to the fastener and to force the legs of the fastener into increased clamping action against a supporting flange embraced thereby.

---

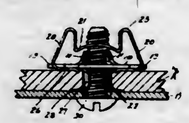
**2,390,751**
**FASTENING DEVICE**
**George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application November 2, 1943, Serial No. 508,665**
**4 Claims. (Cl. 24—153)**



1. A fastening device comprising a single strip of resilient sheet material having a body portion, integral return bends turning downwardly and inwardly at the opposite ends of the body portion and flexibly united thereto by both portions being flat at their junction, and legs projecting from the under ends of the return bends, the under portion of the return bends and the outer face of the legs being transversely bent to provide concavo-convex formations to rigidify the legs.

---

**2,390,752**
**FASTENING DEVICE**
**George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application January 31, 1944, Serial No. 520,448**
**9 Claims. (Cl. 85—32)**

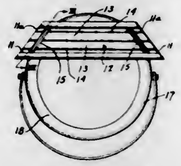


1. A two-part fastening device comprising a cage and a nut, the cage having a transverse por-

tion with an opening and having two portions extending relatively upwardly from said transverse portion and then relatively downwardly and then relatively inwardly and having a pair of spaced tongues adapted to occupy an opening in a support, whereby the cage may be positioned with its opening in axial registration with the opening of the support, said nut being mounted on the cage and loosely engaging the cage and thereby held against rotation while the nut may shift in its own plane on the cage.

---

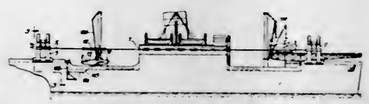
**2,390,753**
**DRAINER CONSTRUCTION**
**John Charles Trindl, Chicago, Ill.**
**Application January 9, 1943, Serial No. 471,904**
**2 Claims. (Cl. 15—260)**



2. As an article of manufacture, an elongated drainer for extension across and into a pail and formed integral from sheet material and including a substantially horizontal mop receiving base portion with upstanding wall portions at least at the ends of said drainer, said base portion and said wall portions having slots therethrough extending across said base portion and upwardly into said wall portions and terminating short of the upper ends of said wall portions for receiving the adjacent rim and upper side wall portions of the pail to support the drainer, each of the walls of said upwardly extending portion of said slots being substantially parallel with the vertical extent of the sides of the pail but being restricted in width at predetermined points whereby when the drainer is applied to the pail it will have clamping engagement therewith to be held against displacement therefrom when a mop is withdrawn from the drainer.

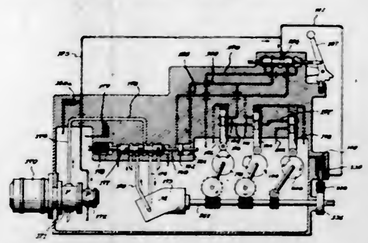
---

**2,390,754**
**APPARATUS FOR HANDLING AIRPLANES**
**Jean P. Valdene, New York, N. Y., assignor of fifty per cent to Diana Guest, New York, N. Y.**
**Application June 10, 1942, Serial No. 446,404**
**20 Claims. (Cl. 244—110)**



1. In an apparatus for handling airplanes, in combination, a track having two substantially parallel horizontal cables in spaced relation and a carriage having a trapeze device for suspending said airplane in flight therebelow, mounted to travel along and come to rest on said track with said airplane suspended from said trapeze, said carriage including a frame spanning said cables and longitudinally and laterally supported thereby so that swinging of the carriage sideways or tilting front and back is substantially prevented.

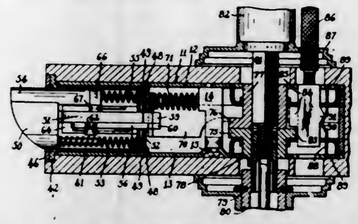
**2,390,755**
**TIMING DEVICE FOR POWER TRANSMISSION SYSTEMS**
**Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan**
**Original application January 27, 1940, Serial No. 315,889, now Patent No. 2,326,184, dated August 10, 1943. Divided and this application August 9, 1943, Serial No. 497,879**
**4 Claims. (Cl. 60—53)**



4. In a hydraulic control system, a reversible motor, control means for controlling the starting and direction of said motor, a source of pilot pressure, pressure responsive means for operating said control means, valve means for directing said pilot pressure to said pressure responsive means, conduits leading from said valve means to said pressure responsive means, each conduit arranged to direct pressure to shift said pressure responsive means to respective control positions, and control valve means for relieving said pilot pressure to render the same ineffective comprising control valves connected respectively to each of said conduits, each movable respectively to open positions upon predetermined movement of said motor in opposite directions to bypass pilot pressure, and a timing control valve arranged to receive bypassed pilot pressure from either of said control valves and adapted to bypass said pilot pressure at a predetermined point in the movement of said motor.

---

**2,390,756**
**FRONT DOOR LOCK**
**Henry G. Voight, Hamden, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut**
**Application December 27, 1943, Serial No. 515,724**
**20 Claims. (Cl. 292—169)**



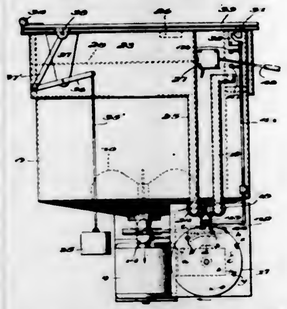
1. A door lock comprising a main case having bolt-retracting mechanism therein, a bolt case adjustably secured within the forward end of the main case, and a bolt mounted in, and supported by, the bolt case for adjustment as a unit therewith and connected to said retracting mechanism, said main case being of cylindrical shape



and open at its forward end, and said bolt case also being cylindrical and fitting snugly within the main case with its axis substantially coinciding with that of the main case.

---

**2,390,757**
**DISHWASHING MACHINE**
**Mabel A. Voris, Seattle, Wash.**
**Application October 22, 1938, Serial No. 236,516**
**11 Claims. (Cl. 134—58)**



1. In a motor driven automatic dishwasher the combination of a tank having means for cooling surfaces thereof and a self opening lid, a cold water pipe with valve thereon and a motor driven timing control member with means for automatically actuating said valve to supply cold water to said first mentioned means for cooling surface of said tank and to actuate said self opening lid after vapor in the tank has been condensed on the cooled surfaces thereof, and means for stopping the motor.

---

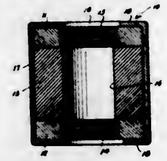
**2,390,758**
**METHOD OF PRODUCING A SIMULATED METALLIC COATING**
**Eric Clifton Wahlberg, Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application July 1, 1942, Serial No. 449,351**
**1 Claim. (Cl. 117—72)**

The method of imparting to a surface of an article a bright metallic appearance which includes, a preliminary step of applying to the surface of the article a baking lacquer under-coating comprising urea-formaldehyde and a colored pigment of a selected shade or color, baking said under-coating, then applying a second coating comprising a mixture of pearl essence, clear lacquer and lacquer thinner by spraying the same over said first coating, and after said second coating is dry for the final step spraying the coated surface with lacquer thinner to reduce the thickness of the lacquer over the pearl essence and thereby effect a lustrous metallic finish on the surface.

---

**2,390,759**
**LOCK NUT**
**Richard F. Warren, Jr., Stratford, Conn.**
**Application March 15, 1944, Serial No. 526,539**
**9 Claims. (Cl. 151—7)**

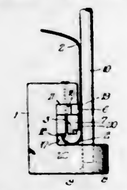
1. In a lock nut, a pair of spaced metal parts each having a threaded opening therethrough, an intermediate non-metallic part having an unthreaded opening therethrough, means securing the metal parts against opposite sides of the intermediate part and maintaining all said parts relatively fixed with their openings in register,



and said non-metallic part of a material adapted to have a thread formed therein by the threads of a bolt onto which said nut may be threaded.

---

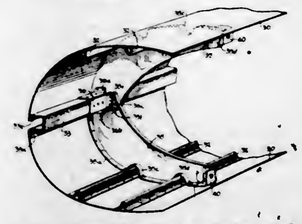
**2,390,760**
**CLAMP SUPPORT FOR FLAGSTAFFS**
**William U. Watson, Chicago, Ill.**
**Application June 7, 1943, Serial No. 489,898**
**11 Claims. (Cl. 248—43)**



1. A clamp for mounting a flag staff on a support comprising a generally rectangular body member, said member having a bight therein adapted to receive a portion of said support and opposed arms adjacent said bight, a guide member mounted in one of said arms and extending into said bight, an opening in the other of said arms and arranged in spaced relation with said guide member for receiving a flag staff, and complementary wedge members arranged in said bight in cooperative relation with said guide member and adjacent surfaces of said body member and said support.

---

**2,390,761**
**AIRCRAFT STRUCTURE**
**Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application June 16, 1943, Serial No. 491,035**
**7 Claims. (Cl. 244—124)**



5. A nose assembly for airfoils and the like comprising two mating half-shells each including rib elements and coverings thereon, the rib elements overlapping in transverse planes which are perpendicular to the front edge of the airfoil and being secured together inside the assembly by shear means, the rear end of the assembly being open to permit making the rib con-

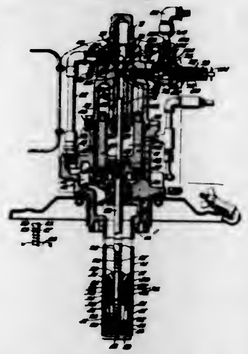
nections, the front ends of the rib elements being depressed from their most forward portions at the overlap to form together an intermediate front recess, and transverse elements comprising part of said coverings secured to said rib elements within their recesses.

---

2,390,762
**PUMP**

**Frank C. Woelfer, Jr., Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio**

**Original application March 9, 1940, Serial No. 323,195. Divided and this application May 14, 1942, Serial No. 442,923**
**1 Claim. (Cl. 103—42)**



In a lubricant pump, a cylinder, a piston in said cylinder, a piston rod for reciprocating said piston in the cylinder, said piston rod slidably mounted through said piston, a valve slidably mounted on said piston rod, said piston including a seat on its underside adapted to be engaged by said valve, an abutment of the lower end of the piston rod, a coil spring disposed under compression between the valve and the abutment, a shoulder on the piston rod adapted to engage the valve for unseating it as the piston rod is moved downwardly, a coil spring under compression between the piston rod and the top of the piston, abutment means on the piston rod arranged to engage the piston when the valve actuating abutment is moved upwardly clear of the valve, and said piston including internal clearance past the valve seat, whereby said valve will unseat to downward movement of the piston rod or will unseat on upward movement of the piston rod when the pressure above the piston reaches a predetermined amount.

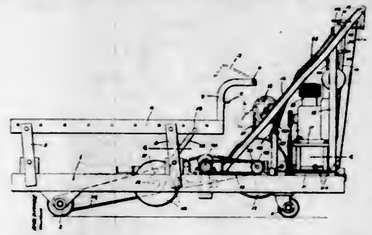
---

2,390,763
**UTILITY TRUCK**

**Edward Wolf, Stockton, Calif.**

**Application April 6, 1942, Serial No. 437,750**
**1 Claim. (Cl. 180—54)**

In a utility truck which includes a frame having side uprights at its rear end and a rotatable transverse handle bar for manipulating the truck mounted in connection with the uprights; wheels supporting the frame, friction drive means for one wheel including a friction drive wheel, a horizontal shaft rigid with said drive wheel and extending lengthwise of the frame to a termination adjacent the rear end of the same, bearings in which said shaft is slidable and turnable, a horizontal transverse lever pivoted on the frame and crossing and engaging the rear end of the shaft, a vertical lever pivoted intermediate its ends on one upright and at its lower end engaging the free end of the horizontal lever, an arm



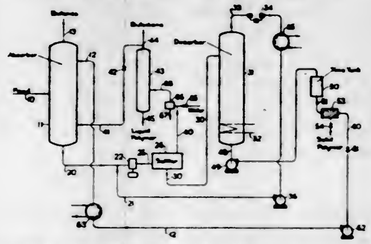
rigid with and depending from the bar substantially in line with the upper end of the vertical lever and a link connecting said arm and the vertical lever.

---

2,390,764
**BUTADIENE RECOVERY**

**Harold I. Wolff, Los Angeles, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**Application June 27, 1944, Serial No. 542,359**
**8 Claims. (Cl. 260—681.5)**



1. The process of separating butadiene from a hydrocarbon mixture containing it together with other hydrocarbons, including small amounts of acetylenes, comprising the step of absorbing butadiene from said mixture in a selective solvent having a greater solvent power for acetylenes than liquid butadiene has, contacting the butadiene-enriched solvent with liquid butadiene produced in the process and containing small amounts of acetylenes under conditions to form two liquid layers, one essentially butadiene of decreased acetylene content and the other of butadiene-enriched solvent, separating said liquid layers, subsequently desorbing butadiene from the contacted rich solvent, and passing said desorbed butadiene in a liquid state to said contacting step.

---

2,390,765
**REFRACTORY COATING MATERIAL**

**Henry H. York, Sydney, New South Wales, and William Michael Dummett, Bondi, near Sydney, New South Wales, Australia; said Dummett assignor to said York**

**No Drawing. Application October 8, 1943, Serial No. 505,578. In Australia October 21, 1942**
**2 Claims. (Cl. 106—57)**

1. Refractory coating material comprising zirconium silicate and titanium oxide in suspension with bentonite and dextrin in the presence of water and methylated spirit.



2,390,766
**COMPOSITION OF MATTER**

**Glenn F. Zellhoefer, Normal, and Carl S. Marvel, Urbana, Ill., and Michael J. Copley, Philadelphia, Pa., assignors, by mesne assignments, to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan**

**No Drawing. Original application May 10, 1940, Serial No. 334,346. Divided and this application February 23, 1942, Serial No. 432,032**
**1 Claim. (Cl. 260—583)**

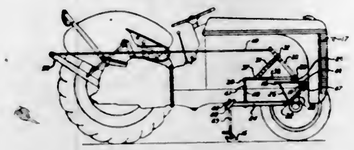
An N-methylated triethylenetetramine resulting from the interaction of 3.4 moles of triethylenetetramine, 30 moles of formic acid, and 12 moles of formaldehyde, said product averaging 4.7 methyl groups per molecule, and consisting substantially of a mixture of tetramethyl and pentamethyl triethylenetetramines.

---

2,390,767
**CULTIVATOR ATTACHMENT FOR TRACTORS**

**Artis Alderman, Lincoln Park, Mich.**

**Application August 23, 1944, Serial No. 550,773**
**4 Claims. (Cl. 97—47)**



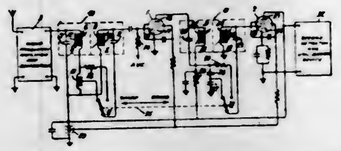
1. In combination with a tractor having an adjustable front axle and a hydraulic mechanism, a mounting bracket secured to said front axle, plow supporting arms pivoted to said bracket, plow feet secured to said arms, lugs on said bracket, secondary arms pivoted to said lugs for movement in common vertical planes with said arms, resilient means connecting the free ends of said plow carrying arms and said secondary arms, a lever pivoted to said bracket, means to connect said lever with said hydraulic mechanism, and means to connect said lever to said secondary arms, said last-named means being adjustable so that varying degrees of force may be exerted on said secondary arms.

---

2,390,768
**VARIABLE SELECTIVITY AMPLIFIER**

**Kirby B. Austin and George G. Young, Bridgeport, Conn., assignors to General Electric Company, a corporation of New York**

**Application October 7, 1944, Serial No. 557,669**
**8 Claims. (Cl. 179—171)**



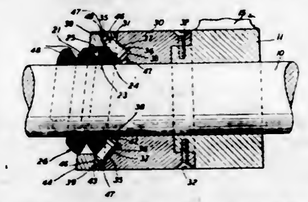
1. A variable selectivity high frequency amplifier comprising in combination, first and second pairs of tunable circuits, means for interconnecting said pairs of circuits, a reactance of one sign connected in one circuit of said first pair and having a portion common to the other circuit of said first pair for coupling said circuits of said first pair, a reactance of the opposite sign connected in one circuit of said second pair and having a portion common to the other circuit of said second pair for coupling said circuits of said second pair, said circuits being tuned to a predetermined resonance frequency, and selectively operable means for increasing the portions of said reactances common to said other circuits whereby said other circuits are detuned in opposite directions and the resonance bandwidth of said amplifier is broadened.

---

2,390,769
**APPARATUS FOR MAKING RETRACTILE CORDS**

**William T. Barrans and Victor S. Martin, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**

**Application March 10, 1944, Serial No. 525,960**
**4 Claims. (Cl. 87—31)**



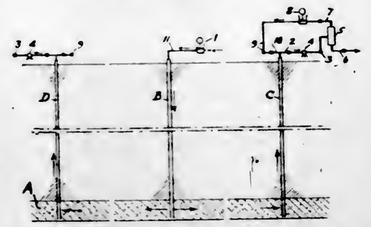
1. In an apparatus for forming retractile cords, an axial take-up capstan for drawing a cord thereon, an annular collar through which the capstan passes, said collar having a helical face and also having a plurality of sockets formed therein, a plurality of flanged rollers having bores formed therethrough, a plurality of thrust bearings for supporting the rollers therebetween, a cap having bores formed therein secured to the helical face, and a plurality of pins having bearing surfaces formed thereon secured in the bores in the rollers and the cap.

---

2,390,770
**METHOD OF PRODUCING PETROLEUM**

**Paul D. Barton, Phoenixville, and Patrick F. Dougherty, Chester, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**

**Application October 10, 1942, Serial No. 461,536**
**1 Claim. (Cl. 166—21)**



In the recovery of petroleum from a number of wells penetrating a single underground formation from which petroleum production has materially decreased, and wherein a combustion-supporting gas under pressure is introduced to said formation at one locus and the petroleum ignited and combustion supported by continuing

the supply of said combustion-supporting gas, thereby causing said zone of combustion to advance and drive petroleum through said formation from said locus toward said wells and withdrawing petroleum from said wells, the improvement which comprises more nearly equalizing the progress of combustion toward the several wells, where the zones of the formation leading thereto are of substantially different permeability, by examining and determining the quantity and character of petroleum products withdrawn from the several wells and thereby determining variations in the rates of combustion through said formation to the several wells, and then establishing substantial uniformity in said rates of combustion by decreasing the resistance to advancement of combustion through one or more said zones in which the combustion is proceeding at too slow a rate by introducing into a well communicating with a zone an acidic material for the purpose of penetrating the formation in said zone and thereby opening its pores progressively in a direction opposite to that of the direction of advancement of combustion to thus provide a free passageway for the petroleum products.

---

**2,390,771**
**SELENIUM RECTIFIER**
**Wayne E. Blackburn, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 25, 1942, Serial No. 452,263**
**4 Claims. (Cl. 175—366)**




1. The method of forming a rectifying surface on selenium which comprises annealing the selenium at a temperature not far below its melting point, immersing the selenium surface in boiling water and thereafter immersing it in a boiling solution of alkali hydroxide.

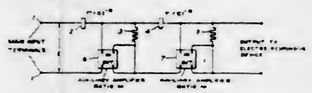
---

**2,390,772**
**ELASTIC FLUID TURBINE**
**David J. Bloomberg, Newton, Mass., assignor to General Electric Company, a corporation of New York**
**Application January 25, 1943, Serial No. 473,455**
**4 Claims. (Cl. 253—70)**



1. Elastic fluid turbine comprising a casing defining an exhaust hood, a rotor disposed in the casing and including a forward section with a plurality of bucket wheels and a reversing section with a bucket wheel having a discharge side facing the discharge side of the forward section, and means for directing elastic fluid discharged from the reversing and the ahead sections into said exhaust hood comprising a plurality of circumferentially spaced substantially flat baffles supported in the casing, each baffle being arranged at an angle of about 45 degrees to a radial plane through the center of the turbine and an inner edge of the baffle and a plurality of stationary guide vanes supported in the casing and disposed between the discharge side of one section and said baffles.

**2,390,773**
**AMPLIFIER CIRCUITS**
**Howard G. Brinton, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application July 3, 1943, Serial No. 493,335**
**11 Claims. (Cl. 179—171)**



1. In an amplifier system of the type having a source of variable voltage, a pair of output terminals, and means for impressing a voltage across said output terminals which varies when the voltage of said source varies but by a much greater percentage, the combination of an impedance connected in circuit with said source of variable voltage, said impedance having a non-linear volt-ampere characteristic expressed by the equation

$$I=\left(\frac{E}{C}\right)^{\frac{1}{1-a}}$$

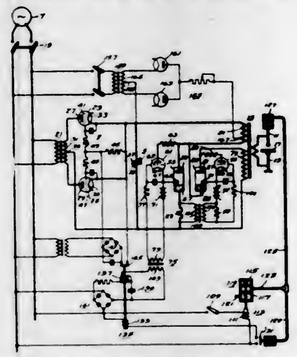
where I is the amperes through it, E is the volts across it, C is its ohmic impedance when carrying one ampere and $a$ is less than 1, a linear impedance connected in series with said non-linear impedance, the value of said linear impedance being so much smaller than the value of said non-linear impedance that substantially all of the voltage of said source of variable voltage is across said non-linear impedance throughout the entire range of variation of said voltage, a second non-linear impedance similar to the first one, means for connecting said second non-linear impedance in a circuit whose voltage is proportional to the current in the said linear impedance, a second linear impedance connected in series with said second non-linear impedance, the value of said second linear impedance being so much smaller than the value of said second non-linear impedance that substantially all of the voltage of the first linear impedance is across said second non-linear impedance throughout the entire range of variation of said voltage, means for obtaining a voltage which is responsive to the current in said second linear impedance, and means for impressing said last-mentioned voltage across said output terminals.

---

**2,390,774**
**WELDING CONTROL SYSTEM**
**Stephen L. Burgwin, Forest Hills, John R. Mahoney, Homewood, and Harry J. Bichsel, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 24, 1943, Serial No. 511,576**
**19 Claims. (Cl. 219—4)**

1. For use in supplying current to a load through a magnetic core transformer having primary and secondary windings with said secondary being connected in circuit with said load, the combination comprising a capacitor, means for precharging said capacitor, means for effecting discharge of the precharged capacitor in one direction through a first predetermined number of turns of said primary winding whereby said capacitor is subsequently charged inversely, and means for thereafter effecting discharge of the inversely charged capacitor in the opposite direction through a second predetermined number

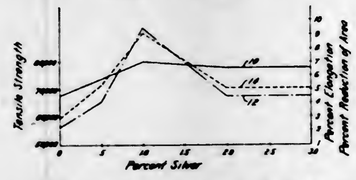




of turns of said primary winding greater than said first number.

---

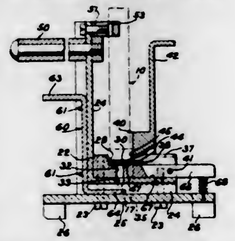
**2,390,775**
**BRAZING ALLOYS**
**Joseph G. Christ, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 25, 1944, Serial No. 528,085**
**4 Claims. (Cl. 75—153)**




1. A brazing alloy consisting of, 0.5% to 2% silver, 1% to 3% tin, 6.5% to 7.5% phosphorus, and the balance copper.

---

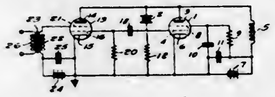
**2,390,776**
**METHOD OF MOUNTING ELECTRICAL CONDENSERS**
**Dale R. Clemons, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Original application October 24, 1941, Serial No. 416,287. Divided and this application March 12, 1943, Serial No. 478,893**
**2 Claims. (Cl. 29—25.42)**



1. A method of making an electrical device having a flat mounting surface thereon, which comprises placing an electrical unit in a container, securing a closure member to the container and molding directly on said closure member a mounting block having a flat molded surface.

---

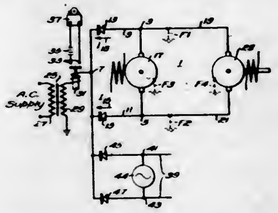
**2,390,777**
**FREQUENCY MODULATION SYSTEM**
**Donald P. Cole, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 10, 1942, Serial No. 434,033**
**1 Claim. (Cl. 179—171.5)**



In a frequency modulation system, a vacuum tube oscillator having anode, cathode and control electrodes, a vibratile frequency determining element connected between said anode and control electrode, means for causing frequency deviation of said oscillator in proportion to modulation signal intensities and at a signal frequency rate, said means including a second vacuum tube having an anode, a cathode and a plurality of control electrodes, the last mentioned anode and cathode being connected respectively to the corresponding electrodes of said oscillator tube and one of the last-mentioned control electrodes being capacitively coupled to the control electrode thereof, an input circuit between the other control electrode and cathode of said second vacuum tube, said circuit being energized with modulation signals.

---

**2,390,778**
**ELECTRICAL GROUND DETECTOR**
**Willard G. Cook, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 15, 1942, Serial No. 458,361**
**7 Claims. (Cl. 175—294)**




1. In a protective arrangement responsive to ground faults occurring on an electrical system having terminals across which a voltage is applied, said system including means for applying a voltage across the terminals, a source of electrical energy independent of said system, means for connecting said source of electrical energy between said electrical system and ground, said connecting means comprising a conductive connection for connecting said source to both of said terminals, and unidirectionally-conductive means in said conductive connection for preventing the flow of current therethrough in response to a voltage across said terminals, and translating means responsive to current supplied by said source through said connecting means when a ground fault occurs on said system.

2,390,779
**PROCESS OF PRODUCING BUTYLENE GLYCOL BY FERMENTATION AND RECOVERING THE PRODUCT**
Ralph T. K. Cornwell, Fredericksburg, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application May 27, 1943, Serial No. 488,740
6 Claims. (Cl. 260—637)

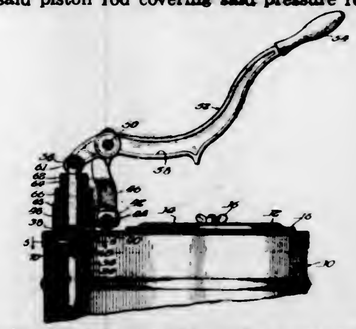
3. In a process for the production of 2,3-butylene glycol by fermenting a carbohydrate solution to produce 2,3-butylene glycol, the steps comprising distilling from said fermented solution volatile substances boiling below the boiling point of 2,3-butylene glycol, and separating the 2,3-butylene glycol from the fermented solution by dialysis through a semi-permeable membrane comprising a hydrophilic cellulosic material.

2,390,780
**PROCESS OF MAKING COATED TEXTILE MATERIALS AND THE ARTICLES PRODUCED THEREFROM**
Ralph T. K. Cornwell, Fredericksburg, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application October 2, 1943, Serial No. 504,781
4 Claims. (Cl. 117—73)

1. In a process for forming a flexible, waterproof fabric, the steps comprising coating a porous fabric with an aqueous alkaline solution of a hydrophilic alkali-soluble cellulose ether insoluble in water; coagulating said cellulose ether to form a coating and thereafter applying pressure to said cellulose-ether-coated fabric while the coagulated cellulose ether coating is in a wet gel state to cause the coating to flow and lay the nap; applying to said coated fabric an intermediate anchor coating comprising a hydrophobic thermosetting synthetic resin in an intermediate stage of polymerization dissolved in an organic solvent, said resin being selected from the group consisting of phenol-formaldehyde resins, urea-formaldehyde resins and melamine-formaldehyde resins; said cellulose ether coating preventing penetration of the fabric by said resin solution; thereafter evaporating the organic solvent and continuing polymerization of the resin to give a nontacky water-insoluble coating; applying to said intermediate coating a moisture-proofing composition comprising a film-forming cellulose compound dissolved in a volatile organic solvent, said cellulose compound being selected from the group consisting of cellulose ethers and cellulose esters; and evaporating said last-mentioned organic solvent to form a top coating; said intermediate coating anchoring said top coating and the cellulose ether coating anchoring the intermediate coating to the fabric, whereby the various coatings tenaciously adhere to the fabric without cracking or peeling therefrom.

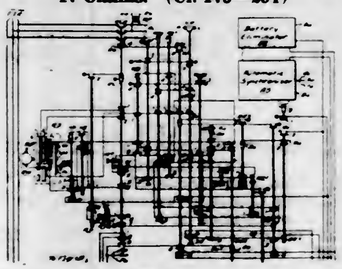
2,390,781
**LUBRICANT COMPRESSOR**
Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 30, 1942, Serial No. 463,911
2 Claims. (Cl. 222—318)

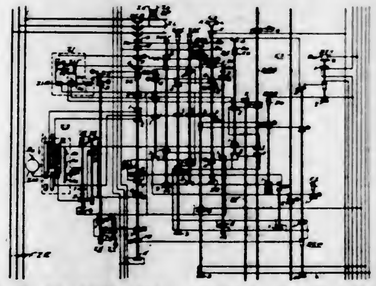
1. In a lubricant compressor having a lubricant reservoir, the combination of a cylinder receiving lubricant from the reservoir, a piston longitudinally movable within said cylinder, a piston rod for said piston, a single manually operable means for imparting longitudinal reciprocatory movement to said piston rod and said piston thereby to apply pressure to the lubricant in said cylinder, a lubricant discharge conduit surrounding said piston rod and receiving lubricant from said cylinder, said conduit having a pressure release opening therein, means including a portion of said piston rod covering said pressure release



opening throughout said pumping movement and uncovering said pressure release opening upon abnormal additional longitudinal movement of said piston rod, said manually operable means being selectively operable to impart either said pumping movement or said abnormal movement to said piston rod, and means for applying a substantial resistive force opposing abnormal movement of said piston rod.

2,390,782
**CIRCUIT BREAKER CONTROL SYSTEM**
Willard A. Derr, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 31, 1942, Serial No. 437,005
17 Claims. (Cl. 175—294)



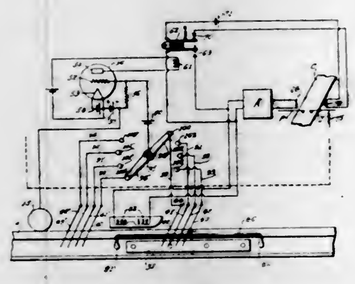


1. In an automatic reclosing circuit breaker control system for a pair of circuit breakers each



disposed to connect a separate power circuit to a common bus, means responsive to the opening of the breakers and the conditions of the common bus and power circuits for automatically reclosing a predetermined one of the breakers in the event that there is potential on the power circuit of both of the breakers and no potential on the bus, and means for thereafter automatically reclosing the other breaker in response to synchronism between the potentials on said other breaker and the bus.

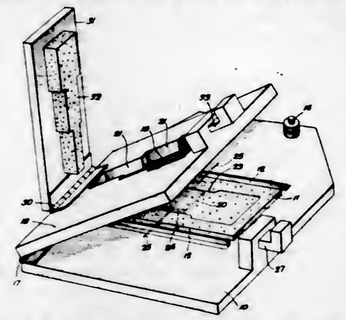
2,390,783
**RAIL FLAW DETECTOR MECHANISM**
Harcourt C. Drake, Hempstead, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application December 23, 1941, Serial No. 424,180
4 Claims. (Cl. 175—183)



1. In a rail flaw detector car adapted to move over the rails, in combination, flaw indicating mechanism, means responsive to flaw adapted to actuate said indicating mechanism, said rails having joints, said flaw responsive means responding also to joints, a plurality of sets of spaced means, each set of spaced means being responsive to the beginning and end of rail joints, means whereby said plurality of sets is capable of rendering said flaw indicating means ineffective when said first responsive means is in a plurality of respective relationships to the rail joint, and means whereby any of said plurality of sets may be selectively rendered effective.

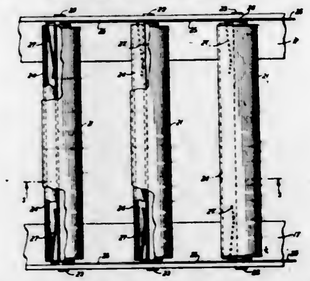
2,390,784
**DEVICE FOR TESTING ELECTRICAL CONDENSERS**
Adolph E. Drebish, Oak Park, and Riley A. Kay, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 6, 1943, Serial No. 474,956
4 Claims. (Cl. 29—25.42)

1. An apparatus for testing the capacity of condensers comprising a fixed base, electrical contacts on said base, a testing circuit connected to said contacts, a rubber mat on said base indented to predeterminedly position a condenser thereon relative to said contacts, means having an aperture associated with said base for clamping a condenser thereon in engagement with said contacts and exposing the condenser for adjustment while clamped to said fixed base, and a pressure device registrable for entrance into said aperture for



applying a predetermined pressure to the condenser while it is being tested.

2,390,785
**CONVEYER**
Walter T. Eppler, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 8, 1944, Serial No. 534,549
9 Claims. (Cl. 193—35)

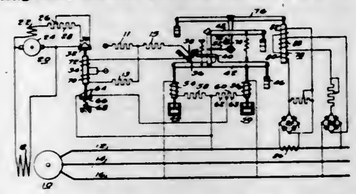


1. In a conveyer, a frame having an entrance end and an exit end, rollers rotatably mounted at spaced positions longitudinally of the frame, and an elongate element extending longitudinally of one of the rollers and in engagement therewith and with the frame to hold the said roller for free rotation in one direction but against rotation in the other direction.

2,390,786
**REGULATING SYSTEM**
Ralph A. Geiselman, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 8, 1942, Serial No. 468,215
5 Claims. (Cl. 171—119)

5. In an electrical system the combination with a three-phase power circuit, a dynamo-electric machine connected thereto, the dynamo-electric machine having a field winding, a rheostat having a plurality of resistor sections disposed to be connected in circuit relation with the field winding to control the excitation of the dynamo-electric machine, and means including electromagnetic means disposed to control the connections of the resistor sections, the electromagnetic means having a pair of opposed current responsive windings connected in series circuit

relation and a voltage responsive winding disposed therebetween, and rectifiers connected in circuit between the current responsive windings and the voltage responsive winding of the electromagnetic means and the three-phase circuit,



the electromagnetic means thereby being responsive to the kilovolt-amperes of the dynamo-electric machine to control the connections of the resistor sections and thereby control the kilovolt-ampere output of the dynamo-electric machine.

---

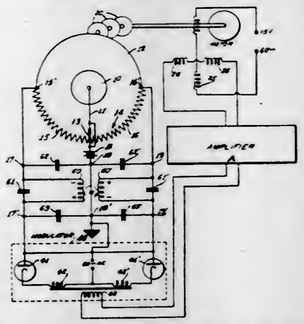
2,390,787

**FOLLOW-UP MECHANISM**

**Norman L. Haight, Glen Ridge, N. J., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York**

**Application January 16, 1942, Serial No. 427,021**

**6 Claims. (Cl. 172—239)**



5. In a follow-up mechanism, a sensitive element, a follow-up member, an electric motor for actuating said member, means whereby relative displacement between said element and said member generates a D. C. potential, means whereby said potential actuates said motor, said last named means including a pair of circuits normally balanced relative to each other, each circuit including an inductance, said inductances being arranged in mutually inductive relation.

---

2,390,788

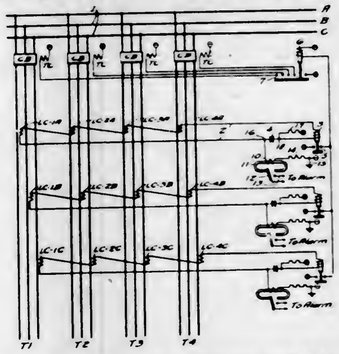
**LOOP-CIRCUIT SUPERVISORY SYSTEM**

**Edwin L. Harder, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application October 20, 1943, Serial No. 506,968**

**2 Claims. (Cl. 177—311)**

1. Supervisory means for an alternating current loop-circuit including alternating-current energy-translating means and a capacitor serially included in said loop-circuit, said supervisory means including a supervisory circuit in shunt-circuit relation to said capacitor, said supervisory circuit including a direct-current source and a supervisory relay-means, said supervisory relay-means including means for responding to a faulty condition within said loop-circuit, the portion of said supervisory circuit which includes said supervisory relay-means having a high resistance, so high that the supervisory current is far below the level of sensitivity of the alternating-current energy-translating means of the loop-circuit,



means for connecting one terminal of said high-resistance portion of the supervisory circuit to the loop-circuit on one side of the capacitor, means for connecting one terminal of said direct-current source to the loop-circuit on the other side of the capacitor, and means for connecting together, and grounding, the other terminals of said high-resistance portion and said source.

---

2,390,789

**METHOD OF MAKING HOLLOW PROPELLERS**

**Orin S. Haskell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application August 17, 1942, Serial No. 455,027**

**1 Claim. (Cl. 29—156.8)**



The method of making a propeller blade which comprises forming a blade body airfoil-shaped in section and with varying pitch along its length, placing into the hollow body a loop of flexible steel strip and a loop of copper strip each extending along the entire length of and in close proximity to the inner edge of the body, the flexibility of the steel strip forcing opposite portions of the loop into the hollow edge portions of the blade, and subjecting the body with the two strips therein to a brazing operation integrally to unite in a single step the steel strip and the walls of the body near the inner edge thereof.

---

2,390,790

**RESISTANCE UNIT**

**Ralph B. Immel, Wilkinsburg, and Lawrence Pierce, Edgewood, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

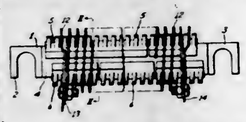
**Application March 11, 1944, Serial No. 526,014**

**5 Claims. (Cl. 201—63)**

1. An electric resistance unit comprising a mounting strap of metal having an elongated



cross section so as to have a preferred flexing direction, a plurality of insulating refractory bodies arranged on said strap so as to substantially surround said strap, each of said bodies being of small length as compared with that of



said strap and having a beveled end so as to provide a clearance between adjacent bodies transverse to said flexing direction, and a continuous resistance winding mounted on and surrounding said plurality of bodies.

---

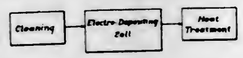
2,390,791

**PROTECTIVE TRANSPARENT COATINGS**

**George W. Jernstedt, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application October 16, 1940, Serial No. 361,353**

**2 Claims. (Cl. 204—37)**




2. The method of applying a protective corrosion and tarnish-resisting coating to surfaces of members, which comprises, in combination, making the member to be protected the cathode in an electroplating bath, the electroplating bath containing salts of the metals selected from the group beryllium and aluminum, the concentration of the metallic salts corresponding to the molar equivalent of 1 to 6 grams of $BeSO_4.4H_2O$ per liter, ammonium hydroxide to effect precipitation of a portion of the metal salts and to provide for an initial hydrogen ion concentration of 5.5 to 5.9 and from about 1 to 7.5 grams per liter of boric acid to provide for a uniform coating, passing a current of from 20 to 200 milliamps per square foot of surface of the members, to effect the electro-deposition of a layer of material from the bath, and thereafter heat-treating the member with the electro-deposited layer in air at a temperature of about 250° C. to 400° C. to provide for a uniform and durable protective coating.

---

2,390,792

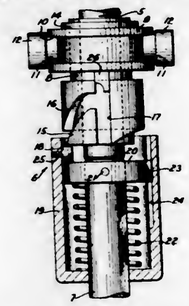
**POWER TRANSMISSION DEVICE**

**Helgo W. Jespersen, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**

**Application December 4, 1943, Serial No. 512,935**

**13 Claims. (Cl. 192—67)**

1. In a power transmission device having a power shaft and a second shaft to be driven thereby, a sleeve associated with said power shaft and rotated thereby having a spiral groove formed in the surface thereof, a member associated with said second shaft and receivable in said spiral groove, means for causing said member to enter said groove, and yieldable means associated with said second shaft for resisting the movement of said member along said groove to cause a gradually increasing torque to be applied to said second shaft as said member enters said groove, said sleeve having a second groove formed therein and extending longitudinally thereof so as to intersect the inner end of said



spiral groove to permit said sleeve to be withdrawn from said member.

---

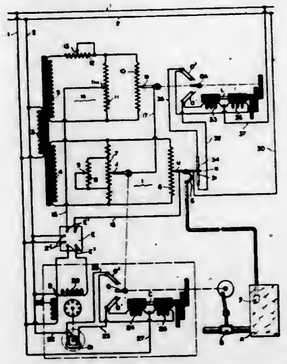
2,390,793

**CONTROL APPARATUS**

**Harry S. Jones, Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application June 13, 1942, Serial No. 446,946**

**9 Claims. (Cl. 172—239)**

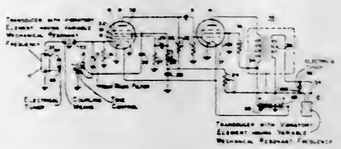


1. An electric control system comprising in combination a plurality of separate bridge circuits each of which has two output terminals and includes at least one resistor and a slider contact adjustable along said resistor and forming one of said output terminals, said system including three such resisters and sliders and a fixed output terminal, means connecting all of said output terminals in a control circuit, a reversible control motor controlled by said control circuit and operating in accordance with the direction of current flow therein to produce a control effect and to adjust one of said slider contacts, means for adjusting another of said slider contacts in accordance with the direction and extent of the departure of a control quantity from a normal value of the latter, means operable independent of the last mentioned means and of said motor for adjusting the third slider contact whereby the adjustment of each slider may be effected without affecting the balance of any bridge circuit not including the resistor along which said slider contact is adjusted and ad-

justing means individually associated with one, at least, of said bridge circuits for adjusting said bridge circuit and thereby varying the effect produced by a given adjustment of the slider contact of the last mentioned bridge circuit on the current flow in the control circuit.

---

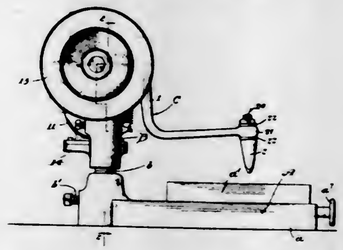
2,390,794
**FREQUENCY RESPONSE CONTROL**
Cosler Donald Knight, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application February 21, 1944, Serial No. 523,379
17 Claims. (Cl. 179—1)



1. In combination, an electro-acoustical transducer having dimensions suitably small for inconspicuous wear and a wall, said transducer having a movable diaphragm with a face thereof enclosed by the wall, and means for altering a physical parameter of said transducer in such an amount that the mechanical frequency response is substantially affected, said means including a sound channel extending through said wall in such a direction that movement of the air produced by movement of said face toward said wall is away from the diaphragm.

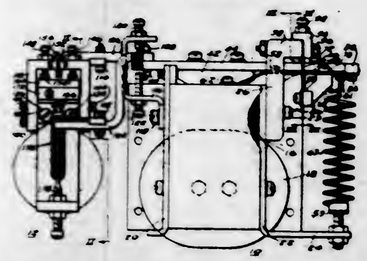
---

2,390,795
**PEENING HAMMER**
Stefan Kotewicz, Chicago, Ill.
Application June 21, 1943, Serial No. 491,673
4 Claims. (Cl. 153—32)



1. In a peening hammer, the combination of a work supporting base, a standard supported thereon comprising a head portion freely rotatable on a substantially upright axis, an operating shaft mounted on said standard to extend substantially across said axis, a flywheel on said shaft on one side of said axis, a motor on said standard on the other side of said axis and operatively connected with said shaft, a hammer handle pivoted at one end on said standard and extending across said shaft, a cam on said shaft in operative contact with said handle, a hammer head at the free end of said handle, a work supporting table on said base in operative relation with said hammer head; and a spring normally holding said hammer in operative relation with said work table.

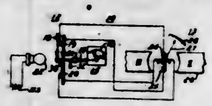
2,390,796
**REGULATING APPARATUS**
Joseph F. Kovalsky, Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 26, 1942, Serial No. 456,188
12 Claims. (Cl. 200—98)



8. In a regulator, in combination, a primary control relay and an auxiliary control relay, each of the relays having an armature member and a winding disposed to be energized to control the movement of the related armature member, each of the relays having a spring mounting disposed to provide a floating pivot for each of the armature members, the armature members being longitudinally disposed for pivotal movement through arcs which are substantially at right angles to one another, a pair of oppositely disposed contact members carried by each of the armature members, the contact members carried by the primary armature member being disposed to selectively engage the contact members carried by the auxiliary armature member in response to a predetermined change in the energization of the winding associated therewith, the winding of the auxiliary control relay effecting a pivotal movement of the auxiliary armature member when energized to abruptly separate the contact members of the relays, and means associated with the armature member and spring pivot mounting of each of the relays disposed to limit buckling and distortion of the spring pivot mounting under predetermined conditions of shock, said means providing rigid auxiliary pivots for receiving the armature members under the predetermined conditions of shock to assure operation of the regulator when the shock conditions become greater than can safely be carried by the floating pivots.

---

2,390,797
**INDICATING SYSTEM**
Bernard F. Langer, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1942, Serial No. 466,144
7 Claims. (Cl. 177—351)



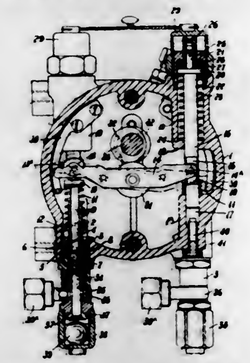
1. A position indicating system for producing at a remote location an indication of the operating condition of a device having a moving element comprising, a plurality of stationary radiation responsive devices positioned in spaced side by side relation, an associated source of radiation



for the devices, a movable opaque baffle actuable in response to movement of the moving element to vary the areas of the radiation responsive devices exposed to radiations simultaneously in opposite senses, indicating means positioned at the remote location, and circuit means so connecting the radiation responsive devices to the indicating means that said means operates in response to the resultant of the opposed outputs of the devices to indicate the position of the moving element.

---

2,390,798
**RECIPROCATING PUMP**
Camille Clare Sprankling Le Clair, Ealing, London, England
Application February 11, 1942, Serial No. 475,496
In Great Britain February 14, 1942
16 Claims. (Cl. 103—36)

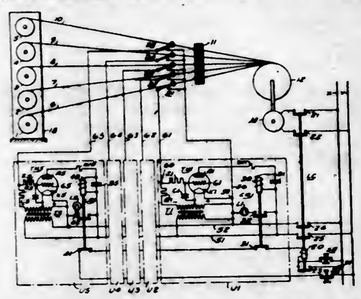


1. In a pump of the class described, having a cylinder provided with inlet and outlet ports and a pump piston mounted for reciprocation in said cylinder, the combination of a spring-loaded member, a rocking element having one end pivotally connected to said spring-loaded member and having its free end to reciprocate said piston, and an operating member mounted for rotation about a fixed axis, said operating member being in contact with said rocking element at a point intermediate the ends thereof so that rotation of said operating element causes said rocking element to pivot about its pivotal connection to reciprocate said pump piston, whereby the rocking element will reciprocate said spring-loaded member when resistance greater than a predetermined amount to the free discharge of fluid from said cylinder causes the reciprocation of said pump piston to be arrested.

---

2,390,799
**CONTROL SYSTEM**
John Z. Linsenmeyer and Lloyd C. Poole, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 9, 1944, Serial No. 539,480
6 Claims. (Cl. 28—51)

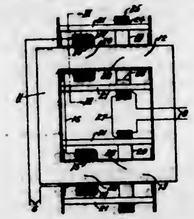
1. In a strand working machine, the combination of means for accommodating a plurality of strands, electric drive means arranged for simultaneously advancing said strands when operative, electromagnetic contact means having two sets of contacts of which one is connected with said electric drive means for controlling its operation, an electromagnetic relay connected with said contact means for controlling the operation of said sets of contacts, an electronic discharge tube having an anode circuit connected with said relay and a grid circuit for controlling said anode circuit, impulse transmitting means responsive to the occurrence of a strand break



and connected to said grid circuit so as to provide the latter with voltage for controlling said tube to energize said relay when said transmitting means respond to a break, and means controlled by said other set of contacts for rendering said tube and relay ineffective when said drive means are stopped due to the control action of said one set of contacts.

---

2,390,800
**TRANSFORMER**
Carl J. Madsen, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1942, Serial No. 442,767
4 Claims. (Cl. 175—356)

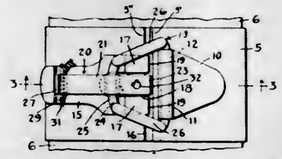


1. In an electrical transformer for transmitting electric energy in a high-energy, high-frequency field, an arrangement of the elements of the transformer characterized by providing low electrostatic capacity between the transformer primary and secondary windings and between the secondary winding and ground, and absence of series or parallel resonant characteristics throughout a band of high frequency radiations, said structure comprising a magnetic core loop having two winding legs, a high-voltage winding and a low-voltage winding thereon, the high-voltage winding comprising two winding coils having much less length than the winding legs, one coil being wound on each leg and positioned adjacent the one end of the leg, the winding coils being connected in series and each winding coil being provided with an electrostatic shield substantially surrounding the edges of the winding coil and the end thereof facing the low-voltage winding, said winding being formed of two single turn lay-

er winding coils having a much less length than the length of the core legs, one each of said two coils being positioned on each winding leg of the core and formed of continuous strips of conductor wound layer upon layer between strips of insulating material, the strips having a width corresponding to the length of the winding, the low-voltage windings being positioned about the opposite ends of the winding legs of the core than the high-voltage winding.

---

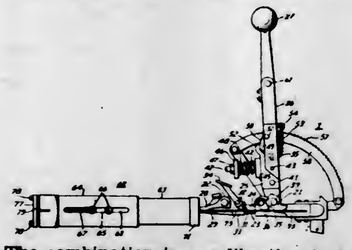
**2,390,801**
**JOINT FOR EXHAUST MANIFOLD SYSTEMS**
**Roscoe I. Markey, Montclair, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey**
**Application July 25, 1944, Serial No. 546,531**
**3 Claims. (Cl. 24—19)**



1. A split clamping member formed of a single strip of metal of a width sufficient for securing the ends of a pair of tubular members of an exhaust manifold system together so as to permit of longitudinal expansion and contraction of said pair of members due to changes in temperature, the ends of said split clamping member being separated by a short gap when positioned on said tubular members, a locking member comprising two substantially parallel legs having their ends connected together by arched resilient portions, said split clamping member having one leg of said locking member pivoted adjacent one of its ends, a latch member pivoted adjacent the other end of said split clamping member, and a hook on said latch member to take over the other leg of said locking member, said latch member having a toggle action, and said arched resilient portions of said locking member permitting of diametrical expansion and contraction of said clamping member due to changes in temperature.

---

**2,390,802**
**CALIBRATING TOOL**
**Nick Mars, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 2, 1944, Serial No. 538,352**
**4 Claims. (Cl. 73—1)**



1. The combination in a calibrating tool, of a pair of relatively movable, hollow cylindrical telescoping members each having an abutment member at its outer end, a calibrating spring within the pair of members for engaging the abutments in their outer ends, indicating means responsive to the relative movement of the cooperating hollow cylindrical members for indicating the pressure applied by a strap-stretching tool being calibrated, each of said abutment members having a slot therein for permitting a steel strap to pass therethrough, a plate associated with one of said abutment members for clamping the end of the strap to the abutment member for holding it tightly in place, guide means for supporting the steel strap within the relatively movable cylindrical members and for permitting the strap to extend through the slot in the other one of the two abutment members, said calibrating tool being responsive to the operation of a strap-stretching tool operative to grip the band and to press the nose of the strap-stretching tool against the free abutment member of the calibrating tool for forcing the relative movement of the two hollow cylindrical members against the force of the calibrating spring.

---

**2,390,803**
**PROCESS AND APPARATUS FOR MANUFACTURING PLASTIC ARTICLES**
**Charles F. Marschner, Normandy, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland**
**Application May 19, 1943, Serial No. 487,580**
**2 Claims. (Cl. 18—19)**

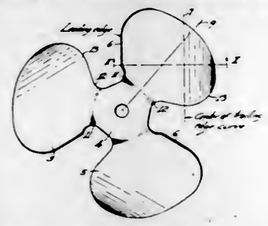


2. A die set for producing marginally flanged plastic parts comprising a heated rigid forming block adapted to support a plastic blank with the margins of said blank overhanging the sides of said block, a ductile sheet metal intermediate die member having depending marginal flanges adapted to seat on said blank beyond said sides of said block, and a rubber die member movable into engagement with the outer surface of said ductile intermediate die member to conform the latter and said plastic blank to the top and sides of said forming block, said ductile intermediate die member being initially a flat sheet formed into flanged condition by the operation of said die set.

---

**2,390,804**
**PROPELLER TYPE FAN**
**John A. McLean, Jr., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 28, 1942 Serial No. 463,635**
**4 Claims. (Cl. 170—159)**

1. A multi-blade fan, characterized by each blade being of sheet-material construction, each blade having a leading edge having a contour consisting for the most part of an approximately straight line lying approximately in a radial plane extending through the axis of the fan, and each blade having a relatively large, relatively flat, leading-edge blade-portion extending back for a considerable distance behind the leading edge, and a smaller, curved, trailing-edge blade-portion extending back from the relatively flat leading-edge blade-portion, said trailing-edge blade-portion approximating a surface generated by a straight-line generatrix-element which remains parallel to the straight-line portion of the leading edge as it moves rearwardly in a curved line, the plane of said curved line being normal to the leading edge at the inner end of the straight-line portion of said leading edge, the generatrix-elements lying in the trailing-edge blade-portion



becoming shorter as the generatrix moves to the rear, so that the trailing edge is for the most part curved in contour, the extreme rear edge of the blade being disposed, for the most part, on the fan-axis side of said normal plane.

---

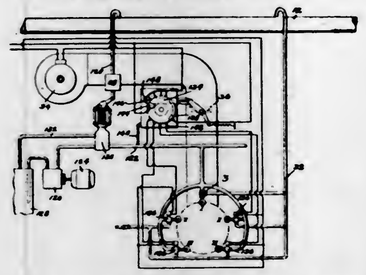
**2,390,805**
**METHOD OF MAKING METALLIC ARTICLES**
**James A. Merryman and Edward M. Wharff, Jr., Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 10, 1943, Serial No. 478,642**
**2 Claims. (Cl. 117—65)**



1. The method of making metallic articles comprising, in combination, spraying low carbon steel to deposit and form a spray metal article having a porous structure, heating the sprayed steel to a temperature of between 1900° F. and 2100° F. in a reducing atmosphere for a period of time ranging from one to two hours to reduce any oxides present thereon, applying a brazing metal selected from the group consisting of copper and copper base alloys to the heat treated article, and subjecting the article to a temperature of between 2000° F. and 2300° F. in a reducing atmosphere for a period of time sufficient to permit the brazing metal to penetrate and substantially fill the pores of the sprayed steel.

---

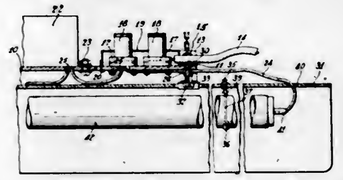
**2,390,806**
**OIL BURNING SYSTEM**
**Theodore Nagel, Brooklyn, N. Y.**
**Application September 11, 1942, Serial No. 457,933**
**6 Claims. (Cl. 158—45.5)**



1. An oil burning system comprising a plurality or nest of oil burner nozzles at a firing opening of a furnace, an electrically operated oil valve for each of said nozzles, with one exception, oil pressure operated switch mechanism for controlling said valves, and an oil pressure valve controlled by the steam pressure generated by the furnace for controlling said switch mechanism.

---

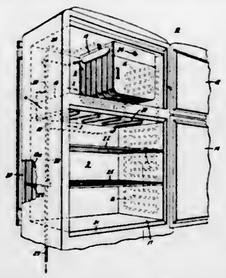
**2,390,807**
**FLUORESCENT LIGHTING FIXTURE**
**Shirley R. Naysmith, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut**
**Application June 4, 1943, Serial No. 489,603**
**3 Claims. (Cl. 240—78)**



1. In a multiple lamp fluorescent lighting fixture, a rigid horizontal flat topped body substantially shorter than the lamps with which it is to be used, a multiple lamp fluorescent lamp ballast secured on the upper side of the body midway of its ends, starter sockets secured to the top of the body near one end, a current supply cord secured to the top of the body adjacent the starter sockets, and wiring interconnecting the current supply cord with the starter sockets and the ballast and including a plurality of lamp leads having pin receptacle contacts for supplying a plurality of fluorescent lamps, a cover detachably secured to the body and forming a splicing chamber about the starter sockets, the body having wire receiving holes under the ballast and adjacent the starter sockets so that all the wiring except the cord and that in the splicing chamber is below the body, and means for securing the lamp leads under the body.

---

**2,390,808**
**REFRIGERATOR**
**Delbert F. Newman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 21, 1943, Serial No. 495,639**
**6 Claims. (Cl. 62—116)**



1. A refrigerator comprising a cabinet having thermally insulated walls, a thermally insulated partition for dividing the interior of said cabinet

to provide two compartments within said cabinet, refrigerating means arranged in said cabinet for cooling said compartments, said means being arranged to maintain one of said compartments at a lower temperature than the other of said compartments, said means tending to cool the surface of said partition within said other compartment to a temperature below the normal temperature of the air in said other compartment, and means disposed in heat exchange relation with said partition on its side adjacent said other compartment for maintaining the temperature of the surface of said partition within said other compartment at least as high as the temperature of the air within said other compartment whereby the transfer of heat from the air in said other compartment through said partition is minimized.

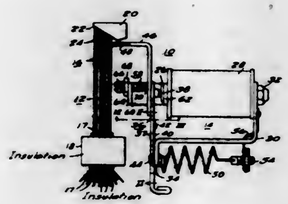
---

2,390,809

**CIRCUIT-CONTROLLING APPARATUS**

Kirk A. Oplinger, Verona, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 26, 1943, Serial No. 473,582
6 Claims. (Cl. 200—104)



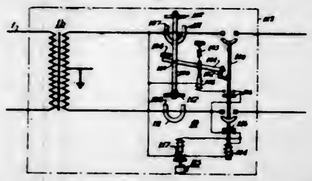
1. In a circuit-controlling apparatus, in combination, a plurality of spring biased switches, a spring biased armature member for actuating progressively the spring biased switches to closed positions, electromagnetic means comprising a core member and a winding thereon disposed to be energized to exert a magnetic pull on the armature member to actuate it to progressively release the spring biased switches, means comprising an extension of the core member of the electromagnetic means disposed to exert a magnetic pull on the armature member in opposition to an inversely varying with the magnetic pull of the core of the electromagnetic means, the extension and core member being disposed on opposite sides of the armature member to provide a predetermined gap therebetween, means disposed to limit the movement of the armature member towards the core member when the electromagnetic means is energized, said limiting means cooperating with the extension to provide an air gap between the extension and the armature member that is smaller at all times than the air gap between the core member and the armature member to insure the exertion of a continuous non-linear magnetic pull by the extension in one direction on the armature member when the electromagnetic means is energized, the non-linear magnetic pull of the extension compensating for the change in balance between the forces of the biased switches, armature biasing spring and the magnetic pull of the electromagnetic means exerted on the armature member resulting from the progressive release of the spring biased switches.

2,390,810

**ELECTRICAL DISTRIBUTION SYSTEM**

John S. Parsons, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application June 28, 1940, Serial No. 342,940, now Patent No. 2,329,132, dated August 7, 1943. Divided and this application April 29, 1942, Serial No. 440,960
9 Claims. (Cl. 175—294)



2. In a polyphase electrical system, a polyphase electrical circuit having portions to be operatively connected and disconnected, a switch for operatively connecting said portions, means for closing said switch, control means responsive only to the vector resultant of positive phase sequence components on opposite sides of said switch for preventing closure of said switch, and means responsive to a predetermined condition of one of said portions of said polyphase electrical circuit for rendering said control means ineffective to prevent closure of said switch.

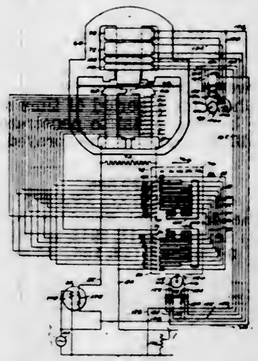
---

2,390,811

**ELECTRICAL MEASURING DEVICE**

Ambrose J. Petzinger, Paterson, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 22, 1942, Serial No. 462,968
16 Claims. (Cl. 171—34)



1. In a measuring device for measuring a function of a plurality of variable quantities and for providing the same response for each of a plurality of ranges of a first one of said variable quantities, a measuring unit having first operating means and second operating means for energization respectively by said first one and a second one of said variable quantities, said measuring unit including translating means responsive to the combined energizations of both of said operating means, control means for adjusting said first operating means to vary the energization of said first operating means by said first quantity and to adjust said measuring unit partially for the same response of said translating means to each of said ranges of said first quantity, and control means for modifying the energization of said second operating means by said second quantity sufficiently to complete the adjustment of said measuring unit for each of said ranges of said first quantity.



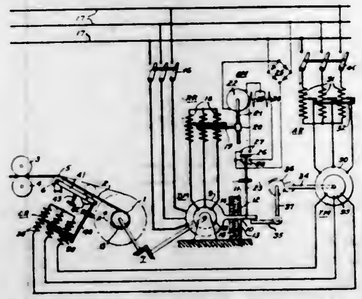
---

2,390,812

**CONTROL SYSTEM**

Frederick D. Snyder, Milton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 15, 1944, Serial No. 549,549
9 Claims. (Cl. 242—75)



1. An electric winder drive comprising reel means for winding up a material, a main motor having a rotor for driving said reel means and a rotatably mounted stator, a torque-motor mechanically coupled with said stator for counteracting its rotation, control means for varying the torque of said main motor in dependence upon the angular position of said stator, and means for controlling the torque of said torque-motor in accordance with diameter variations of the wound-up material in order to maintain the tension of said material substantially at a constant value.

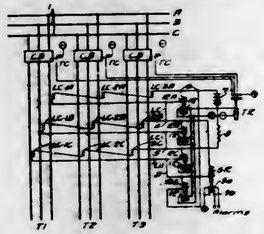
---

2,390,813

**RELAY**

William K. Sonnemann, Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 24, 1942, Serial No. 463,107
18 Claims. (Cl. 177—311)



1. The combination with a protected polyphase electrical device, of polyphase deriving-means, responsive to a polyphase electrical quantity of the protected device, for providing a plurality of pairs of output-terminals similarly responsive to different phases of said polyphase electrical quantity, a separate electro-responsive protective-relay apparatus operatively associated with each of said pairs of output-terminals for similarly responding to faults in its phase, and a four-legged bridge-circuit including said polyphase output-terminals and said electro-responsive apparatus, said bridge-circuit comprising four serially connected legs in a closed circuit.

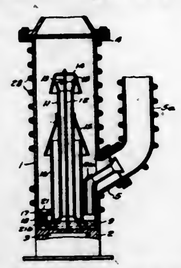
---

2,390,814

**PUMP**

Frederick W. Stallmann, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 14, 1944, Serial No. 540,294
2 Claims. (Cl. 230—101)



1. A diffusion pump of the type having at least three stages comprising, a boiler subdivided into a number of sections equal to the number of said stages, means defining an orifice for projecting vapor from the boiler section of each stage, a common collection-space for condensed vapor from said stages, and a drain from said space directly to the boiler section which supplies vapor to an intermediate stage.

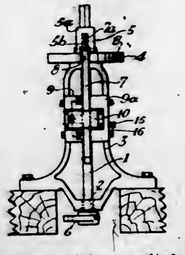
---

2,390,815

**ELECTRIC LOCK**

Harold K. Steiner, Milwaukee, Wis., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application November 7, 1944, Serial No. 562,317
10 Claims. (Cl. 246—413)

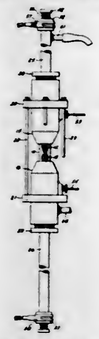


1. In combination with a switch stand including an operating handle, a lock body attached to said switch stand, a lock latch and key barrel assembly attached to said handle in such position that said latch will extend into said lock body in the normal position of said handle, said latch being at times rotatable within said lock body by means of a key inserted into said key barrel between a locking position in which it prevents movement of said handle from its normal

position and an unlocking position in which movement of said handle is permitted, and electrically controlled means in said lock body effective when deenergized but not when energized to prevent rotation of said latch away from its locking position.

---

**2,390,816**
**HIGH INTENSITY LIGHT SOURCE**
**Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 11, 1941, Serial No. 401,985**
**8 Claims. (Cl. 240—11.2)**



1. A high intensity light source comprising mutually spaced electrodes providing a discharge path between them and a liquid under a pressure of at least several atmospheres disposed about and in contiguity with the said discharge path, whereby an arc occurring between the said electrodes is caused to exist in a vapor-filled space bounded directly by the said liquid.

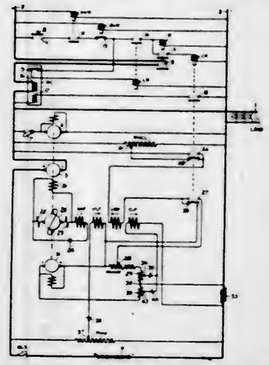
---

**2,390,817**
**IDENTIFICATION DEVICE**
**Veron S. Thomander, Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 15, 1942, Serial No. 454,930**
**6 Claims. (Cl. 40—20)**



1. In a multipart device, an element having a non-circular opening therein, a head, said head comprising a base portion proportioned to enter and snugly fit said opening, and a cap portion of a size incapable of passing through said opening when said element is in mounted position relative to said head, said base portion being insertable in and removable from said opening in response to movement of said head relative to said element along a line passing through said opening, and means for securing said head to a body to which said element is to be attached with said base portion adjacent the body, said base portion having a roughened portion projecting through said opening to engage the body and inhibit relative rotation between the body and said head.

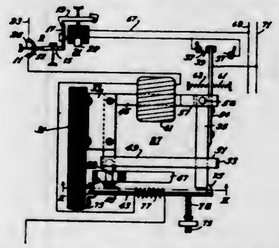
**2,390,818**
**REGULATING SYSTEM FOR STORAGE BATTERIES**
**Burr S. Weaver, Scotia, and Donald E. Garr, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application January 21, 1944, Serial No. 519,156**
**14 Claims. (Cl. 320—5)**



1. In a battery charging system, comprising a battery, a direct current supply circuit, and a dynamoelectric machine connected between said supply circuit and battery, a regulating arrangement for controlling the excitation of said machine comprising an exciter for said machine having a field winding, means for energizing said exciter in response to variations in the load circuit voltage, a constant voltage source, a resistor connected in a circuit across said source and having a point thereof connected to one side of said battery, a unidirectional current conducting device, a second resistor connected across said battery, and an opposing field winding on said exciter connected in series with said unidirectional current conducting device between points on said resistors whereby current flows through said opposing field winding only when the voltage across said second resistor exceeds a predetermined value.

---

**2,390,819**
**ELECTRICAL CIRCUIT PROTECTIVE DEVICE**
**Floyd S. Wheeler, Arlington, Va., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application December 26, 1942, Serial No. 470,195**
**13 Claims. (Cl. 200—88)**



1. Circuit controlling apparatus comprising contact means, a magnetic structure having a movable armature for controlling said contact means and two poles on opposite sides of said armature, said armature being movable in opposite directions from a normal unattracted position and causing actuation of said contact means upon movement in either direction, a conductor for energizing said magnetic structure, one of said poles being nearer said armature than the other and said armature being attracted more strongly to the nearer pole and moved to said nearer pole in response to certain values of current through said conductor up to a predetermined magnitude and being attracted more strongly to said other pole and moved to said other pole when the current through said conductor exceeds said predetermined magnitude, and time delay means normally restraining said armature from moving to said nearer pole.
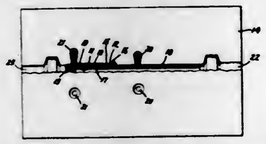


---

**2,390,820**
**SPARK PLUG UNIT BUSHING**
**Thomas N. Willcox, Pittsfield, Mass., and Hubert H. Race, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application October 11, 1943, Serial No. 505,730**
**12 Claims. (Cl. 174—167)**



1. A bushing for a spark plug unit including a rigid tubular insulating terminal boot, and a resilient insulating sleeve extending into said boot and intimately bonded to the inner surface thereof and having a collar extending over the upper end of said boot.

---

**2,390,821**
**METHOD OF MAKING SPARK PLUG UNIT BUSHINGS**
**Thomas N. Willcox, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application October 11, 1943, Serial No. 505,731**
**10 Claims. (Cl. 18—59)**

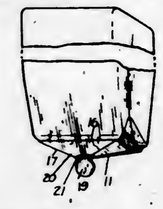


1. The method of making a bushing which includes forming a relatively rigid tubular insulating boot of frangible material, molding a resilient insulating material sleeve under pressure about substantially all surfaces of the boot for preventing cracking of the boot during said molding and to provide a sleeve extending through substantially the full length of the boot, and removing the molded resilient material from the outside of the boot.

---

**2,390,822**
**POURING SPOUT FOR PAPER BAGS AND THE LIKE**
**Charles Wren, Toronto, Ontario, Canada**
**Application January 8, 1944, Serial No. 517,502**
**3 Claims. (Cl. 229—7)**

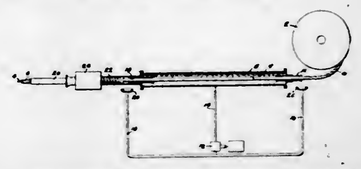
1. In a bag having a sealed end, front and rear walls and side walls, the latter being longitudinally foldable to collapse the bag, a pouring spout structure comprising a tearing tab disposed in said sealed end wall centrally thereof and defined by a weakened line, said base being transversely foldable intermediate its side edges to provide opposed end wall portions foldable towards one another and sealable to enclose said tearing tab, said base being provided with fold lines diagonally thereacross, said opposed portions when sealed together enclosing the tearing tab and forming



the base of the bag while the bag is being filled through its opposite open end, the latter being sealable to form the base of the bag when the latter is reversed, said sealed portions of the opposite end of the bag being separable to expose said tearing tab, the latter being tearable to provide a discharge opening in said end wall, the latter being distendable along its folded lines to form a funnel-like pouring spout for discharge of the contents of the bag.

---

**2,390,823**
**APPARATUS FOR IMPREGNATING ELECTRIC POWER CABLES**
**Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey**
**Application December 31, 1940, Serial No. 372,695**
**1 Claim. (Cl. 91—46)**



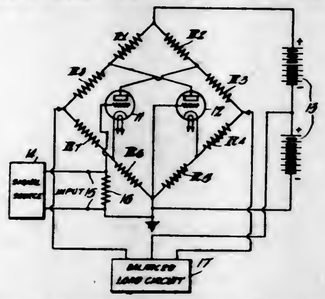
An apparatus for the further impregnating of a previously oil impregnated paper insulated cable, said apparatus comprising in combination a pressure cylinder containing oil, a pump for maintaining this oil under superatmospheric pressure, stuffing boxes at the ends of the cylinder through which the cable is continuously fed lengthwise with the ends of the cable projecting from the ends of the cylinder, and intake conduits for the pump terminating at said stuffing boxes whereby any pressure oil passing the stuffing boxes will be returned to the pressure cylinder.

---

**2,390,824**
**PHASE INVERTER**
**Henry W. Berry, West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application July 27, 1943, Serial No. 496,369**
**7 Claims. (Cl. 178—44)**

1. A phase inverting circuit including a pair of thermionic discharge tubes each having anode,

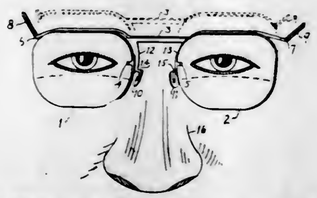
cathode and control electrode circuits, a normally balanced impedance bridge comprising a plurality of serially-connected impedance elements forming a closed loop, means connecting the anode and cathode circuits respectively of each of said tubes to different normally balanced points on said bridge, connections to said bridge including separate ones of said serially-connected bridge elements for applying operating potentials symmetrically to the anode and cath-



ode circuits of said tubes so that said bridge remains balanced notwithstanding variations in operating potentials, means including an unbalanced input circuit for connecting the control electrode circuit of one of said tubes to a source of signals to unbalance said bridge in response to said signals, and means including a balanced output circuit connected to other normally balanced points on said bridge for deriving from said bridge oppositely-phased signals in response to said unbalance of said bridge.

---

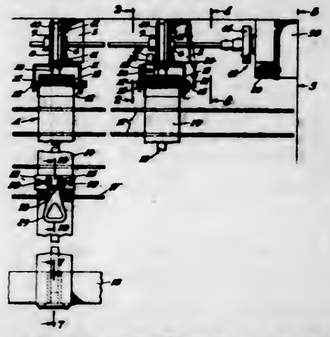
2,390,825
**EYEGLASSES**
Richard Wallace Carlisle, Greenburgh, N. Y.
Application November 16, 1942, Serial No. 465,648
5 Claims. (Cl. 88—43)



1. A bifocal eyeglass assembly comprising in combination bifocal lenses having large lower segments, a frame having a single inconspicuously disposed bridge member, bows adapted to fit over the ears of the wearer and hold the lenses substantially equidistant from the eyes with the centers along a horizontal line, two elongated members having non-circular cross section forming portions of said frame and disposed substantially vertically along the inner edges of said lenses, two hollow members, the openings through which are of non-circular cross section conforming loosely to said elongated members and arranged to slide freely thereon when not under torque, arms extending substantially radially from said hollow members, said arms being adjustable to any position within the range of length of said elongated members by sliding the hollow members on the elongated members, and nose pieces connected to said arms, said nose pieces causing said hollow members to twist and thereby lock frictionally on said elongated members when said nose pieces are pressed on the nose.

---

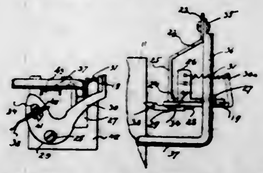
2,390,826
**CORDLESS VENETIAN BLIND**
Harold J. Cohn, Los Angeles, Calif., assignor to Automatic Venetian Hardware Corporation, a corporation of California
Continuation of application Serial No. 345,890, July 17, 1940. This application December 16, 1943, Serial No. 514,494
12 Claims. (Cl. 160—170)



2. A cordless Venetian blind which includes: a plurality of horizontally-disposed slats supported by ladders; a pair of lift tapes adapted to raise said slats; a horizontal shaft of relatively small diameter journaled in brackets above said slats and provided with a pair of drums fixed thereon about which said lift tapes are wound; a spiral spring motor mounted at one end of said shaft and adapted to rotate the same and thereby lift said slats by the winding up of said lift tapes; and releasable means associated with said shaft to lock said shaft against rotation.

---

2,390,827
**SHEET SEPARATOR FOR PRINTING PRESSES**
Benjamin W. Dalton, Detroit, Mich.
Application August 9, 1944, Serial No. 548,707
3 Claims. (Cl. 271—26)



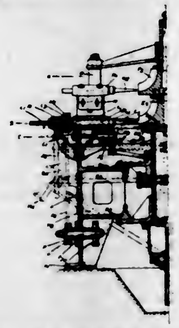
1. In a printing press of the kind described, in combination with the separator frame thereof, a sheet separator on each side of the stock, each separator comprising, a mounting bracket, a pivoted rocker thereon, a clamping finger on said rocker, spring means acting upon said rocker to cause the finger to clamp down the top sheet of the stock, and means in the path of the separator frame and actuated thereby to tilt the rocker to swing the finger away from the stock against the tension of the spring to allow removal of the top sheet of stock by means carried on said separator frame, said spring in turn causing the finger to



flip against the edge of stock being so lifted, for separation of sheets carried by adhesion with said top sheet.

---

2,390,828
**PROFILING MACHINE**
Edgar Philip Dorman, London, England, assignor to The United Glass Bottle Manufacturers Limited, London, England, a British company
Application May 5, 1944, Serial No. 534,325
In Great Britain January 7, 1944
7 Claims. (Cl. 90—11.50)



1. Mechanism for simultaneously profiling a series of identical forms regularly recurring around the surface of a body, comprising a centrally disposed member supporting for axial and oscillatory movement together and in spaced relationship the work-piece and a master form, which master form corresponds in shape and configuration with the shape and configuration of one of the forms to be reproduced in plurality in the work-piece, an annular series of rotary cutting tools arranged around the work-piece with their axes disposed substantially radially thereto, and a tracer cooperating with said master form and means for producing relative movement between the annular series of tools and the member supporting the work and the master form, the said tracer serving to determine the common figure cut simultaneously by all of the rotary cutting tools by limiting both oscillatory and axial displacement of the work support and the axial displacement of the cutting tools as they move towards the center of the work-piece.

---

2,390,829
**RUBBER SUBSTITUTE**
Joseph H. Elder, Arlington, Tex.
No Drawing. Application September 26, 1942, Serial No. 459,820
4 Claims. (Cl. 260—752)

1. A rubber substitute comprising a mixture of approximately twenty-four parts of linseed oil, six parts of pine tar, five parts of carbon black, fourteen parts of carbon disulphide, one part of gum rubber, and two parts of a mixture of hexamethylene tetramine and phenol.

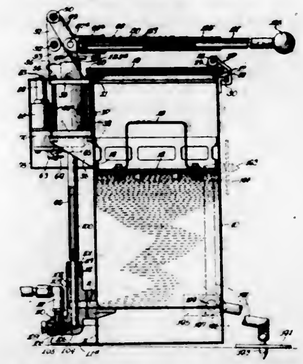
---

2,390,830
**STABILIZED SOLUTIONS OF METALLIC SALTS**
Stanley B. Elliott, Cleveland, Ohio, assignor to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 28, 1943, Serial No. 484,876
1 Claim. (Cl. 106—310)

A new composition of matter comprising in solution form (a) a major proportion of a water insoluble drier soap of a metal of the class consisting of the heavy metals and the alkaline earth metals, (b) a minor amount of sorbitol, and (c) a non-polar solvent.

---

2,390,831
**HAND OPERATED TANK LUBRICATOR**
Clifford E. Fitch, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application June 23, 1942, Serial No. 448,120
16 Claims. (Cl. 222—262)



1. In a tank lubricator, the combination of a storage receptacle for a body of lubricant and adapted to be sealed to atmosphere, a follower seated upon the head of lubricant, an air pump including conduit connections for supplying compressed air to the upper end of the receptacle for building up pressure therein and causing the follower to exert pressure on the body of lubricant, tending to discharge the same through an outlet from the receptacle, a grease pump operatively associated with the discharge outlet of the receptacle, and means for operating the grease pump including detachable connections to said air pump for selective simultaneous operation of both of said pumps or of said air pump alone.

---

2,390,832
**OIL PUMP**
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application April 26, 1944, Serial No. 532,742
2 Claims. (Cl. 103—178)



1. In a double acting oil pump, a cylinder, a plunger reciprocable therein and having a cross sectional area substantially half that of the cylinder, a packing at one end of said cylinder surrounding said plunger, a tubular piston mounted for sliding movement on said plunger, said plunger having a head against which said piston seals when the plunger is pulled outwardly relative to said cylinder and a surface portion concentric with said cylinder, a stop ring carried by said

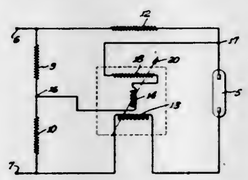
plunger adjacent said surface portion for engaging said piston to push the piston when the plunger is pushed inwardly relative to the cylinder, said tubular piston having a guide portion slidably receiving said surface portion, and longitudinal slots through said guide portion to the end of said piston to permit oil flow through said piston from the intake end of said cylinder to the outlet end thereof when said plunger is pushed inwardly, said piston at that time being spaced from said head and engaged by said stop.

---

**2,390,833**
**LIGHT MEASURING METHOD AND SYSTEM**

**Robert L. Haynes, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware**

**Application December 30, 1942, Serial No. 470,683**
**8 Claims. (Cl. 315—129)**



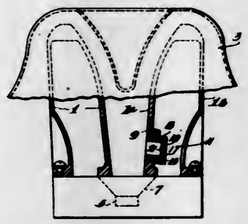
1. A measuring circuit for measuring the light output of a vapor lamp comprising a source of energy for said lamp, a wattmeter having a fixed coil connected in series with said lamp and said source of energy, and a movable coil for said wattmeter connected in shunt with said lamp and across a portion of the voltage of said energy source, said voltage portion being determined by the voltage value for zero light output at the intersection of the extended characteristics between voltage and light output for said vapor lamp operating at different current values.

---

**2,390,834**
**HORN LOUD-SPEAKER**

**Joseph Hegener, Llanerch, Pa., assignor to Radio Corporation of America, a corporation of Delaware**

**Application August 24, 1940, Serial No. 354,026**
**7 Claims. (Cl. 181—27)**



1. An acoustical horn comprising a tubular member including a wall having an opening therein, and yieldable means normally closing said opening, said means being yieldable in response to an excessive air pressure in the vicinity of said opening to permit escape of said air and thereby relieve said pressure.

**2,390,835**
**METHOD OF ALKYLATING AROMATIC COMPOUNDS**

**George Felix Hennion, South Bend, Ind., and Norbert Francis Toussaint, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application April 30, 1940, Serial No. 332,476**
**6 Claims. (Cl. 260—671)**

1. A process for alkylating an organic compound containing an aromatic nucleus which comprises reacting said compound with an aliphatic alcohol containing at least 3 carbon atoms in the presence of boron trifluoride and an inorganic acid anhydride selected from the group consisting of phosphorus pentoxide and boric oxide.

---

**2,390,836**
**METHOD OF ALKYLATING AROMATIC COMPOUNDS**

**George Felix Hennion, South Bend, Ind., and Norbert Francis Toussaint, Louisville, Ky., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Original application April 30, 1940, Serial No. 332,476. Divided and this application May 19, 1943, Serial No. 487,658**
**6 Claims. (Cl. 260—671)**

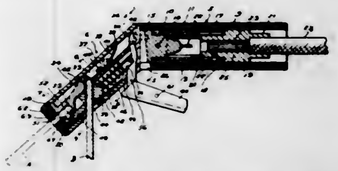
1. A process for alkylating an organic compound containing an aromatic nucleus which comprises reacting said compound with an aliphatic alcohol containing at least 3 carbon atoms in the presence of boron trifluoride and an assistant acidic condensing agent selected from the group consisting of sulfuric acid and benzenesulfonic acid.

---

**2,390,837**
**WELDING ROD HOLDER**

**James H. Hill, Long Beach, Calif., assignor of forty-nine per cent to Howard F. Craven, Long Beach, Calif.**

**Application August 22, 1944, Serial No. 550,585**
**3 Claims. (Cl. 219—8)**



1. A welding rod holder comprising elongated nose and handle portions disposed at an obtuse angle to each other and each including a conducting body having an insulating sleeve fitted and secured thereover, the inner ends of the body and insulating sleeve of the nose portion being oblique to the longitudinal axes thereof and respectively abutting the outer ends of the body and the insulating sleeve of the handle portion, means rigidly securing the adjacent ends of the bodies together, means to secure the end of a conductor cable to the inner end of the body of the handle portion, and a spring-engaged and trigger-released welding rod clamping means carried by the body of said nose portion and including a clamping element slidable longitudinally of and within the last-named body, the body of the nose portion having a kerf in the inner end thereof, an angular trigger having an arm extending into and bearing



at its free end against the outer wall of said kerf, and a rod projecting rearwardly from said clamping element and pivoted to the intermediate portion of said arm of the trigger.

---

**2,390,838**
**ADJUSTABLE NUT LOCK**

**James P. Johnson, Cleveland, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio**

**Application April 17, 1944, Serial No. 531,373**
**1 Claim. (Cl. 151—54)**



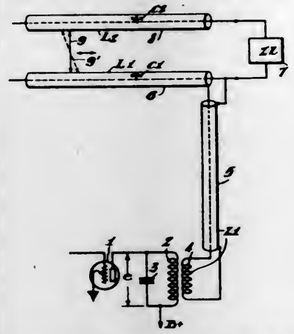
A nut lock of the character described for locking a nut from turning relative to a movable arm comprising a stamped sheet metal element having a disk portion provided with an opening therethrough, a flange formed of the sheet metal around said opening, the shape of said opening and flange substantially conforming to the perimeter of a nut, said nut positioned against said arm, said element having a lateral extension from said disk portion extending along and positioned against the top of the arm, and a pair of fingers projecting from opposite sides of the outer end of said lateral extension, said fingers thus being positioned on opposite sides of the arm at such points on said extension that are spaced the greatest distance from the center of the nut and having their terminal ends bent to a retaining position under the bottom of the arm, said flange permitting slight end play of said nut toward and away from said arm without the nut assuming a position beyond the outer end of said flange.

---

**2,390,839**
**RADIO FREQUENCY COUPLING NETWORK**

**George W. Klingaman, Lynnport, Pa., assignor to Radio Corporation of America, a corporation of Delaware**

**Application August 17, 1943, Serial No. 499,018**
**6 Claims. (Cl. 178—44)**



3. A transmission network for coupling a source of radio frequency energy to a load circuit comprising a pair of concentric transmission lines each having coaxially disposed inner and outer conductors, means for connecting adjacent ends of said inner conductors of said lines to different terminals of said load circuit, a third transmission line having aperiodic means for connecting to said source, means connecting the conductors



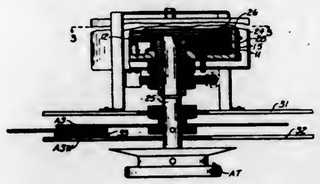
of said third line to separate conductors of one of said pair of concentric lines, and adjustable means connecting the outer conductors of said pair of lines to vary the inductance in said network.

---

**2,390,840**
**ATTENUATOR**

**Heiman W. Koren, Bronx, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York**

**Original application May 31, 1941, Serial No. 395,927. Divided and this application November 6, 1943, Serial No. 509,306**
**5 Claims. (Cl. 201—55)**



1. In a potential attenuator arrangement: a contact resistance formed of a substantially continuous uniform resistance filament substantially uniformly wound into substantially uniform turns having an exposed contact region along which the consecutive turns of the resistance filament are exposed; a contact member arranged to engage said resistance along said exposed contact region and movably related thereto so that a relative motion between said contact member and said resistance brings said contact member into engagement with consecutive turns of said resistance; a conducting terminal member; an additional resistance formed of a continuous substantially uniform resistance filament substantially uniformly wound into substantially uniform consecutive turns; said additional resistance having a first sequence of substantially uniformly spaced taps connected to said terminal member and another sequence of substantially uniformly spaced taps uniformly located intermediate said first sequence of taps connected to a plurality of substantially uniformly spaced taps on said contact resistance; said resistances being so proportioned, and said taps being so arranged on said resistances that relatively continuous movement of predetermined direction between said contact resistance and said contact member continuously reduces the applied potential substantially according to a predetermined decreasing function.

---

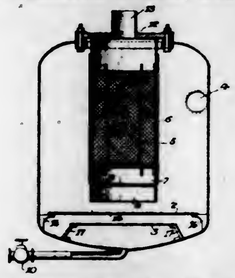
**2,390,841**
**FILTER**

**Eric Longden, Greenside, Johannesburg, Transvaal, Union of South Africa**

**Application November 25, 1943, Serial No. 511,662**
**In the Union of South Africa January 25, 1943**
**2 Claims. (Cl. 210—154)**

1. In a filter for treating moving fluids, the combination of a vertically disposed cylindrical chamber having a removable cover and provided with a tangentially disposed inlet for the fluid to be filtered, said tangential inlet communicating with the cylindrical chamber above the transverse center line thereof, a vertically disposed inner cylindrical member secured to said removable cover and depending therefrom centrally within said chamber, said inner member communicating with an outlet port in said cover, the

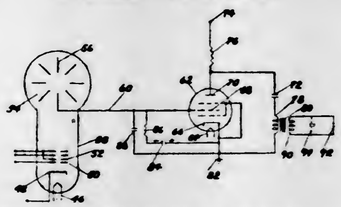
cylindrical wall of said member comprising a filtering medium, means for closing the lower end of said inner member, a pair of circular discs forming baffles disposed below said inner cylindrical member in concentrically superimposed spaced relation to each other and to the lower end of said inner cylindrical member, said discs being



smaller in diameter than the cylindrical chamber thereby forming an open space between the wall of the chamber and the peripheries of the discs, the uppermost disc having a central opening therein, and a drain in communication with the cylindrical chamber below said discs for removing foreign matter from the chamber.

---

2,390,842
IGNITION SYSTEM
George H. Marmont, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware
Application April 29, 1944, Serial No. 533,383
4 Claims. (Cl. 123—148)

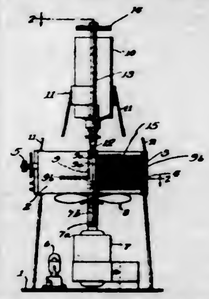


1. An ignition system for an internal combustion engine comprising means for projecting an electron beam, a distributor having oriented contacts, means driven by the engine for moving the beam successively over the contacts, a relay circuit connected to each of the contacts, and a spark plug coupled to each relay circuit.

---

2,390,843
METHOD AND MACHINE FOR VAPORIZING INSECTICIDES AND OTHER LIQUIDS
William Edward McCauley, Champaign, Ill., and Carlos W. Veach, Riverside, Calif., assignors to Board of Trustees of the University of Illinois, Urbana, Ill.
Application October 3, 1941, Serial No. 413,446
6 Claims. (Cl. 21—58)

2. A machine for vaporizing insecticides and other liquids comprising a heat conductor having a generally cylindrical interior surface arranged about a vertical axis, said surface being provided with a plurality of grooves extending therearound in generally circumferential relation to said axis, means for heating said conductor, means communicating with a source of supply of insecticide or other liquid for distributing the same upon said surface, and means in communication with said surface for projecting resulting vapor from said surface into the adjacent atmosphere, said surface being so conformed and so arranged in relation to the second mentioned means and the last mentioned means, re-



spectively, that when heated to a suitable temperature it will cause instantaneous substantially complete vaporization of liquid so distributed thereupon without chemically distintegrating it and without substantial residual deposit on the surface, and direct the projected vapor into the adjacent atmosphere whereby to enable the creation of a fog of said vapor in the adjacent atmosphere.

---

2,390,844
QUADRANTAL CORRECTOR FOR MAGNETIC COMPASSES
Alvin G. McNish, Washington, D. C., assignor to the United States of America, as represented by the Secretary of War
Application September 27, 1943, Serial No. 503,985
3 Claims. (Cl. 33—225)



3. In combination with a magnetic compass having a needle, means for compensating for quadrantal deviation comprising a mounting stem in the axial line of the compass, a hub mounted for adjustment on and along said mounting stem, legs extending horizontally and radially from said hub, and collars of magnetic material removably mounted on said legs, the number of said collars on said legs being variable for permitting correction of both the D and E terms in the compass deviation.

---

2,390,845
PISTON EXPANDER
Constantine Melideni, New York, N. Y.
Application April 4, 1945, Serial No. 586,544
8 Claims. (Cl. 309—12)

1. In a piston skirt expander formed of flat spring metal with a central opening and adapted to be inserted into a skirt of a piston having piston pin bosses and a piston pin, said expander having side members lying in a plane and being in spaced-apart relation from each other at the



central portion of said piston, each of said side members having an integral extension connected by a horisontally positioned member, said connecting member having a continuation extending therefrom first radially and then laterally within said opening, said continuation terminating in a hook adapted to engage said piston pin, said radial portion being spaced apart from said



connecting member and providing an element of resiliency whereby said hook is in resilient engagement with said piston pin, said side members having right-angular extensions at their outer ends, said extensions forming four pressure sections adapted for engagement with said piston, and means for reinforcing said side members against bending.

---

2,390,846
HANDGRIP CONTROL SWITCH
Theodore Obmarny, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application November 29, 1943, Serial No. 512,178
3 Claims. (Cl. 200—157)



1. In a switch device of the character described, comprising a mounting; a switch assembly comprising a stationary, elongated relatively wide switch finger having a pair of transversely spaced apart contact buttons on one face thereof and a contact button on the opposite face thereof, a pair of transversely spaced apart flexible, elongated switch fingers disposed in alignment with said one face of the stationary finger, and an auxiliary flexible, elongated switch finger disposed in alignment with said opposite face of the stationary finger, said stationary and flexible fingers being fixedly secured at one end to said mounting in insulated relation to each other, the opposite end of each of said flexible fingers being free and each being provided with a contact button disposed in spaced apart aligned relation to said contact buttons on the stationary finger; switch operating means carried on the mounting and comprising a depressible plug disposed centrally relatively to the free ends of said pair of flexible fingers and having a nubbin depending from the lower end thereof, and a laterally extending lever operatively connected to said plug for rotating the latter to selectively register said nubbin with either finger of said pair, whereby depression of the plug moves the finger registered therewith into cooperative contacting engagement with the stationary finger; and separate means carried on the mounting for moving the auxiliary flexible finger into cooperative contacting engagement with the stationary finger.

---

2,390,847
SIGNAL TRANSLATING APPARATUS
Harry F. Olson, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 13, 1941, Serial No. 406,597
10 Claims. (Cl. 181—0.5)



1. In signal translating apparatus, the combination of means providing a pair of fluid-tight chambers each including a resilient wall, a vibratory impulse responsive member in one of said chambers adapted to be vibrated in response to vibration of the resilient wall of said last named chamber, and means having fluid-tight connection with each of said chambers and including a passageway for the flow from one of said chambers to the other of fluid entrapped within said chambers.

---

2,390,848
RODENTICIDE
Curt P. Richter, Baltimore, Md., assignor to the United States of America, as represented by the Secretary of War
No Drawing. Application December 31, 1943, Serial No. 516,585
9 Claims. (Cl. 167—46)

1. A rodenticide containing as its effective ingredient an organic thiourea of the general formula:



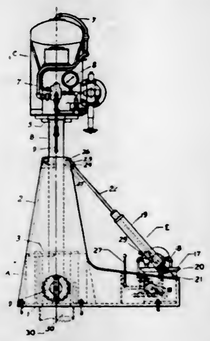
wherein R represents a member of the group consisting of hydrogen and lower aliphatic radicals containing not more than six carbon atoms and R′ represents a radical having a molecular weight of at least 100 and selected from the group consisting of radicals of the benzene and naphthalene series, and a dispersion medium for said organic thiourea.

---

2,390,849
RETRACTABLE OPERATING HEAD FOR A VERTICALLY ACTUATED ARBOR OR ASSEMBLY PRESS
Stanley S. Sheup, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 16, 1943, Serial No. 491,071
2 Claims. (Cl. 100—71)

1. In a work assembly press, the combination with a base integrally formed with a horizontal

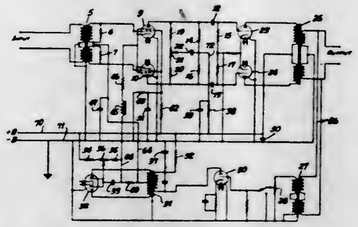
bed plate and bifurcated vertical members, said members being provided with locking elements, a work surface mounted on said base, an inverted U-shaped frame comprising a pair of vertical tension members in spaced relation and a cross head rigidly mounted on the upper ends of said tension members, said frame being pivotally attached at its lower end to said base and adapted for arcuate movement in a vertical plane around said pivot, lock members attached to said tension members



and adapted to engage said locking elements on said vertical members, whereby positive vertical alignment of said tension members with respect to said work surface is maintained during the work assembly operation, a work engaging and pressure applying means carried by said frame, and means for imparting said arcuate movement to said frame, said last named means being extensible and pivotally attached to said base at one end and to said frame at the other end.

---

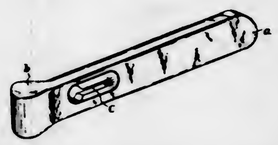
**2,390,850**
**UNBALANCE CORRECTING AMPLIFIER SYSTEM**
**Kurt Singer, North Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application September 13, 1943, Serial No. 502,142**
**10 Claims. (Cl. 179—171)**



1. A system for obtaining a rapid control action of a variable gain amplifier comprising a push-pull circuit, a pair of vacuum tubes in said circuit, means for obtaining a direct current proportional to the variations in amplitude of a signal being transmitted by said tubes, a grid-cathode circuit for said tubes, a plate-cathode circuit for said tubes, said circuits having a common portion, means for obtaining a voltage proportional to the variations of said direct current for varying the gain of said tubes, said means being connected in said grid-cathode circuit, filter means for said direct current insufficient to completely eliminate alternating current components of said direct current and means in said common circuit portion for neutralizing said alternating current components introduced into said push-pull circuit due to the unbalance thereof.

---

**2,390,851**
**DEVICE FOR SECURING STAIR CARPET AND ANALOGOUS USES**
**James Smart, Stockwell, London S. W. 9, England**
**Application March 23, 1943, Serial No. 480,165**
**In Great Britain April 8, 1942**
**5 Claims. (Cl. 16—10)**



1. A device for securing stair carpet and analogous uses comprising an elongated member including a straight shank of substantially uniform rectangular cross-section and an integral head of rectangular cross-section and of greater thickness and width than said shank at one end of the latter, said member being provided adjacent its headed end with an elongated cut-out extending along the major axis of the member, said cut-out having a length equal to a fraction of the length of said member and a width to accommodate the shank of a headed element and terminating in an opening through which said shank may be introduced into said cut-out.

---

**2,390,852**
**ELECTRIC PLUG**
**Ernest C. Stee, Bismarck, N. Dak.**
**Application January 16, 1943, Serial No. 472,625**
**1 Claim. (Cl. 173—361)**



An electric plug comprising a body having a chamber therein, certain of the opposed walls of the chamber having sockets therein, prongs mounted in the chamber and projecting from the body, said prongs including laterally bent portions constituting trunnions at an intermediate point journaled in the sockets for rockably supporting the prongs in the body, means for connecting conductor wires to the inner end portions of the prongs, and a substantially wedge-shaped resilient block engaged between the prongs under compression for retaining the trunnions in the sockets and for yieldingly urging the outer ends of said prongs apart, the body further having a slot therein communicating with the chamber for the insertion of an instrument for removing the block.
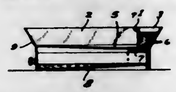


**2,390,853**
**PROCESS FOR PREPARING DICHLORODIETHYL ETHER-ALKALI METAL POLYSULPHIDE CONDENSATION PRODUCTS IN PULVERULENT FORM**
**Harold Taylor, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain**
**No Drawing. Application August 5, 1943, Serial No. 497,555. In Great Britain July 1, 1942**
**4 Claims. (Cl. 117—100)**

1. The process for preparing in pulverulent form rubber-like condensation products of beta-beta-dichlorodiethyl ether and alkali metal polysulphides which comprises mixing an aqueous dispersion of paste-like consistency of the said condensation products with a dusting powder selected from the class consisting of zinc stearate, talc and starch, the average size of the particles of the dusting powder being much smaller than the average size of those of the dispersion condensation products, the weight of the dusting powder employed being not more than 20% of the weight of the dry rubber-like material in said aqueous dispersion, and evaporating water from the mass to give a non-tacky fine powder in which the particles do not cohere upon standing for an extended period of time.

---

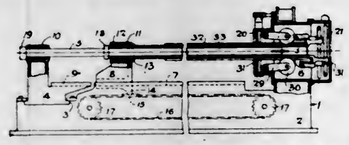
**2,390,854**
**ANIMAL TOILET**
**Evelyn J. Thompson, New York, N. Y.**
**Application November 2, 1944, Serial No. 561,524**
**5 Claims. (Cl. 119—15)**



3. A toilet device for animals, such as cats, comprising a shallow pan structure having a transverse partition dividing the pan structure into major and minor compartments, the bottom of the major compartment having a toilet hole adjacent the partition and the bottom of the minor compartment having a leak orifice, the bottom of the major compartment sloping toward the toilet hole, a gutter member secured underneath the leak orifice and leading to the edge of the toilet hole, and a removable receptacle underneath the pan and disposed below the toilet hole.

---

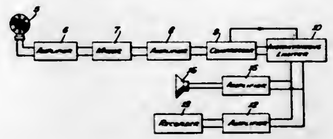
**2,390,855**
**WELDING MACHINE FOR FIN TUBES**
**Norman C. Thompson, Auburn, Addison Y. Gunter, Larchmont, Wilbur A. Shaw, Forest Hills, and Walter E. Roe, deceased, late of Kirkland, N. Y., by Viola B. Roe, administratrix, Clinton, N. Y., assignors to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application March 4, 1944, Serial No. 525,128**
**6 Claims. (Cl. 78—90)**



1. A machine for pressure-welding a fin bracket, having at least a base and a fin portion at an angle thereto, to the external surface of a tube, comprising a base; a mandrel support mounted on said machine base at one end thereof; a tube pusher slidably mounted on said machine base for longitudinal movement relative thereto; a mandrel slidably mounted in said support and pusher; means for advancing and retracting said pusher longitudinally of said machine base; means on said mandrel engaged by said pusher during its said retraction for retracting said mandrel; and a pressure-welding roller head, mounted on said machine base at the other end thereof, having a roller for pressure-welding said bracket base to said tube, and means for forcing said roller into pressure engagement with said bracket base, said mandrel being adapted for supporting said tube opposite said roller.

---

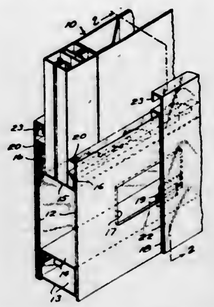
**2,390,856**
**ELECTRONIC COMPRESSOR CONTROL**
**Walter S. Thompson, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application March 24, 1942, Serial No. 436,005**
**11 Claims. (Cl. 178—44)**



11. An electrical current transmission system comprising a source of electrical currents, a delayed action compressor unit for said currents, an instantaneously acting limiting device for said current, and means for interconnecting said unit and device for compressing said currents with substantially no distortion, said limiting device being made inoperative as said compressor unit becomes operative.

---

**2,390,857**
**PARTITION BASE**
**Frank Philip Tucker, Little Silver, N. J.**
**Application August 2, 1944, Serial No. 547,664**
**10 Claims. (Cl. 189—34)**



1. The base structure for a metal partition, comprising a pair of side strips spaced to receive the partition therebetween, transverse members joining said side strips to form a rigid structure, the bottom of said partition resting on one of

said members and a removable cover plate for each side strip having a down turned flange to extend between the strip and partition to lock the plate to said strip and to grip the sides of partition.

---

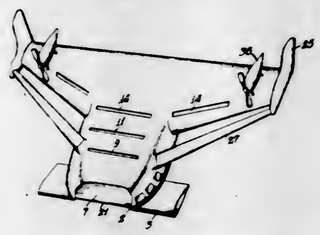
2,390,858
**FLORAL ACCESSORY**
Clarence H. Walker, San Mateo, Calif.
Application July 1, 1944, Serial No. 543,183
6 Claims. (Cl. 41—12)



1. A floral accessory comprising a socket having an elongated stem; and a wire enclosed within said stem and projecting within said socket.

---

2,390,859
**COMPRESSION AIRPLANE**
Douglas K. Warner, Sarasota, Fla.
Application September 23, 1942, Serial No. 459,464
21 Claims. (Cl. 244—15)



1. An airplane having one or more engines mounted in its fuselage, interiorly-operating compressor fans within said fuselage, driving connections between said engines and fans, a pressure-chamber beneath the floor of the plane high at its forward end, and continuing downwardly diminishing in height to the rear, open to the ground water, air or other surface beneath, means for discharging compressed air into said pressure-chamber and against said surface beneath and out at the trailing edge, to create a combined lift and propulsion effect in and under said pressure-chamber, and means for directing a portion of said compressed air from the engines to the upper surface of the plane, to create a thrust and lift thereover the fuselage of the plane being formed with an entrance chamber which is rearwardly flared forwardly of the engines, to provide a diffusion chamber initially diffusing the ram-compressed air before it reaches the fans, and the said pressure chamber being also flared or expanded rearwardly to form another diffusion chamber beneath the plane.

2,390,860
**PURIFICATION OF PLANT RUBBERS**
Ira Williams, Borger, Tex., assignor to J. M. Huber Corporation, Borger, Tex., a corporation of Delaware
No Drawing. Application July 17, 1943, Serial No. 495,128
11 Claims. (Cl. 260—817)

1. The method of disintegrating and purifying resin-containing spongy masses of crude guayule rubber which comprises agitating such masses with a mixture of volatile resin solvents containing approximately 3 parts of ethyl alcohol and approximately 1 part of benzene, and then, when the spongy masses have been disintegrated, separating the resulting rubber particles from the mixture of solvents.

---

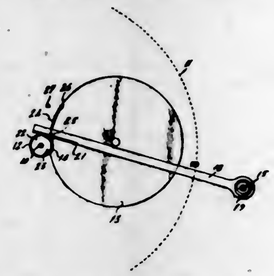
2,390,861
**NONCOLLAPSIBLE NIPPLE**
Earl L. Younkins, South Nyack, N. Y.
Application June 7, 1943, Serial No. 488,972
3 Claims. (Cl. 128—252)



1. In a nipple having a large opening therein for connection with a bottle and a flexible rubber teat portion with an outlet therein for discharge of liquid, a valved device entirely of rubber mounted on said nipple wall and including a tube portion of substantial thickness as compared to the nipple wall supported by the wall and projecting away from its supporting wall inwardly into the space within the nipple, one end of said tube portion being secured to the nipple wall and the opposite end projecting into the interior of the nipple, said tube portion having a duct for the passage of air extending lengthwise therethrough and continued through the wall of said nipple, the end of said duct farthest removed from the nipple wall having an end wall and a valved closure spaced from the nipple wall by a substantial portion of the length of said tube and including flexible membrane means disposed transversely as a thin sheet across the end wall of said duct as a movable closure therefor and adapted to normally removably engage the end wall of said duct to close the same against discharge of liquid into said duct while yet being yieldable inwardly to permit air to enter through the duct into the nipple, said tube portion and said membrance having a passageway therebetween providing for ported communication from the inner end of the duct beneath the membrane, thence between the membrane and the material of the tube portion, and thence to the interior space within the nipple, the length of said tube portion between said nipple wall and said valved closure being sufficiently great so that flexing of the nipple wall does not affect the functioning of the closure, said membrane means being secured to the tube portion at a plurality of points around and spaced from the end of the duct so that the membrane means is yieldably held against the end wall of the duct, said end wall being continuous thereabout and of even contour where engaged by said membrane means whereby the contact between the membrane means and said end wall may be uniform at all points.



2,390,862
**RECORD CHANGER FOR PHONOGRAPHS**
Harald Valdemar Alexandersson and Nils Uno Hagren, Lidingo, Sweden, assignors to Svenska Aktiebolaget Gasaccumulator, Lidingo, near Stockholm, Sweden, a corporation of Sweden
Application January 8, 1943, Serial No. 471,712
In Sweden March 20, 1942
3 Claims. (Cl. 274—1)



1. In a phonograph, a turntable, means for rotating said turntable, a vertical shaft, a pickup arm mounted on said shaft so as to be turnable in a horizontal plane with said shaft for cooperating with a record on said turntable, a rotatably mounted record-change initiating disc, a cam on said disc having an abrupt face, a pair of collars fixed to said shaft, a cam actuating arm frictionally engaged between said collars so as to be turned a predetermined distance towards engagement with said cam face by turning of said pickup arm and shaft during each revolution of said turntable when said pickup arm is cooperating with the playing groove of said record, and a member movable in a circular path in timed relation to said turntable, said path intersecting the path of movement of said actuating arm as the latter approaches said cam face whereby the actuating arm is moved back once during each revolution of said member, said predetermined distance of movement of said actuating arm being insufficient to bring it into engagement with said cam face before it is moved back by said member, said actuating arm being moved a greater distance when said pickup arm cooperates with the tripping groove of said record so as to engage said cam face before the actuating arm is moved back by said member, whereby subsequent movement of said actuating arm by said member actuates said cam.

---

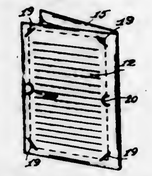
2,390,863
**METHOD OF MAKING ELECTROMAGNETIC CORES**
Merle Amidon, Elizabeth, and Harry E. Thornton, Plainfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 9, 1941, Serial No. 414,288
1 Claim. (Cl. 175—21)



The method of making electromagnetic cores which comprises steps of heating a sheet of magnetic material to about 225° F., spraying one face of the hot sheet with a suspension of powdered mica in a vehicle consisting of water and polyvinyl alcohol drying out the coating by expulsion by the heat of the hot sheet of the water but not the polyvinyl alcohol from the coating, forming laminae of identical size and shape from the coated sheet, and heating the stacked pile of laminae to about 1900° F. to expel the polyvinyl alcohol and cause the powdered mica to cement the laminae together.

---

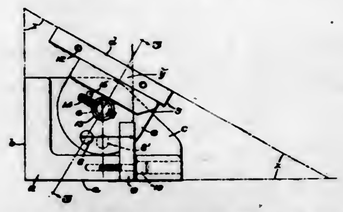
2,390,864
**CORRESPONDENCE PORTFOLIO**
Warren V. Bayley, Los Angeles, Calif.
Application April 26, 1944, Serial No. 532,925
1 Claim. (Cl. 229—72)



A correspondence portfolio comprising, a body having front and rear walls, integral flaps on the top, bottom and outer side edges of said back wall folded so as to provide a pocket on the inner face of the rear wall, integral strips overlying the inner face of the lower portion of said front wall and the inner face of said front wall adjacent its free edge to form an L-shaped pocket on said front wall, a foldable flap integral with the upper edge of said front wall there being an aperture formed in the upper portion of said front wall, there being slits formed through said rear wall adjacent its corners and inner and outer edges for the reception of letter sheets positioned on the inner face of said rear wall and the rear face of the rear wall bearing spaced parallel guide lines.

---

2,390,865
**ADJUSTABLE WORK SUPPORT FOR USE IN MACHINING OPERATIONS**
Irving W. Bemis, Natick, Mass.
Application December 27, 1943, Serial No. 515,680
1 Claim. (Cl. 33—174)



A device of the character described comprising a support having two flat surfaces at right angles to each other, a bracket pivoted to said support with the axis of the pivot parallel to both of said surfaces, said bracket having a work supporting face bearing an acute angular relationship to both of said surfaces in its various positions of adjustment around said axis, a pin extending laterally from said bracket to swing in an arc centered in said axis and having a one inch radius, said support having a projection

rigid therewith and provided with a flat face parallel to one of the above mentioned flat surfaces of said support, said pin being positioned between the latter surface and said face of said projection, the latter face being so located with reference to said pin that it always remains spaced from the pin by a distance equal to a fixed distance plus the sine or cosine value of the angle which the face of said bracket bears to one of said flat surfaces of the support, whereby the device can rest on either of said flat surfaces as a base and the sine or cosine value of the angle which the face of said bracket bears to the base surface so used can always be measured between the surface of said pin and said face of said projection.

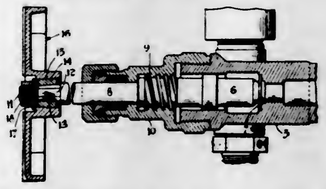
---

2,390,866

## POSITION-INDICATING HANDLE FOR VALVES

Frederick W. Blanchard, Hampstead, Quebec, Canada

Application June 30, 1943, Serial No. 492,876
5 Claims. (Cl. 116—125)



1. The combination with a valve stem and a position-indicating handle of permutation means for resettably mounting said handle on said stem so that the handle has a large number of possible circular permutations enabling it to be selectively reset on the stem to compensate for variations in the travel of the stem due to wear or other causes, said means comprising an angularly resettable torque-transmitting member interposed between said stem and handle and provided with torque-transmitting parts adapted to be selectively and permutatively assembled in interfitting engagement with cooperating torque-transmitting parts of the stem and handle, the interfitting torque-transmitting parts of the stem, handle and member being arranged in endless series around the central axis of the stem.

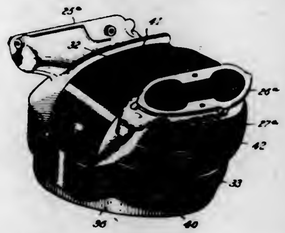
---

2,390,867

## PROCESS FOR FORGING CYLINDER HEADS

Charles A. Brauchler, Canton, Ohio

Application March 31, 1943, Serial No. 481,193
13 Claims. (Cl. 29—156.4)



1. The method of producing a forged engine cylinder head having thick walls for the formation of deep cooling fins, which consists in making the cylinder head solely by press forging and which comprises the steps of forming a substantially rectangular aluminum alloy blank having angular ribs at two adjacent corners thereof, heating said blank to forging temperature, forging the hot metal in one pressing operation said pressing operation including partially rounding the surface of the blank between said angular ribs, tapering the ribs toward each end, rounding one end of each rib, recessing the blank at the other end of one rib and partially rounding the blank at the corresponding end of the other rib so as to partially form said angular ribs into rocker boxes and then forging the hot, partially forged product exactly as produced by said first operation in a second pressing operation said second pressing operation including further rounding the upper portion of the head between the rocker boxes, substantially circularizing the lower portion of the head, shortening the rocker boxes and further tapering them at each end so as to form the entire finished outside contour of the head and the contour of the outer edges of the cooling fins entirely by forging.

---

2,390,868

## PROCESS FOR REMOVING COPPER COMPOUNDS FROM COPPER-SWEETENED HYDROCARBON OIL

Kenneth M. Brown, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 24, 1943, Serial No. 496,043
6 Claims. (Cl. 196—30)

1. A process for removing copper compounds from copper-sweetened hydrocarbon oil which comprises treating said oil with basic magnesium carbonate in solid form.

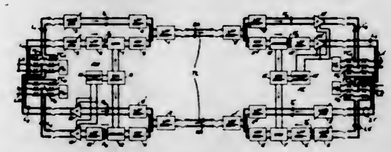
---

2,390,869

## TELEPHONE TRANSMISSION SYSTEM AND APPARATUS THEREFOR

Charles W. Carter, Jr., New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 2, 1942, Serial No. 460,520
6 Claims. (Cl. 178—44)



1. An apparatus unit for attachment to a telephone line or speech channel for securing two speech channels of lowered quality for emergency use, said unit having a first pair of terminals for connection to said line or channel and having a second pair and a third pair of terminals for respective connection to a different one of two telephone instruments or lines, said second pair of terminals having connection within the unit through a low-pass filter to said first pair of terminals, said third pair of terminals having connection within the unit through a low-pass filter, a frequency shifting means and a high-pass filter in tandem, to said first pair of terminals, each of said low-pass filters having a pass-band sufficient to embrace the lower speech frequencies essential for intelligibility, said frequency shifting means serving to shift the frequency of the waves from the pass range of one of said two tandem connected filters between said first and third pairs of terminals to the pass range of the other tandem connected filter.

---



2,390,870

## ACCOUNTING MACHINE

Arthur R. Colley, Oakwood, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application January 30, 1941, Serial No. 376,670. Divided and this application December 9, 1943, Serial No. 513,556
4 Claims. (Cl. 235—2)



1. In a machine of the class described, the combination of a totalizer line; a set of add-subtract totalizer elements on the line consisting of pairs of reversely rotatable gears spaced apart on said line, a set of item-counting elements on the line consisting of pairs of rotatable gears, each pair connected to rotate together; actuators for the totalizer elements; manipulative devices to control the movement of said actuators; means to condition the set of add-subtract totalizer elements for a subtract operation by shifting the said line to move one of each pair of said reversely rotatable gears out of alignment with the actuators and to move the other one of each pair of said reversely rotatable gears into alignment with the actuators; actuators for the counting elements, one gear of each pair of counting gears normally aligned with the counting element actuators, and the other gear of each pair of counting gears movable into alignment with the counting element actuators when the totalizer line is shifted to condition the set of add-subtract totalizer elements for subtract operations, whereby items can be subtracted from the add and subtract totalizer and items can be added into the item counting elements during the same machine operation; means normally effective to arrest the actuators for the counting elements in zero, the arresting means for the units order also adapted to arrest the actuator for the units counting element in "1" position; and means rendered effective by the conditioning means to render the arresting means for the actuator for the units counting element ineffective to arrest said actuator in zero, but effective to arrest said actuator in "1" position to cause "1" to be added in said counting element.

---

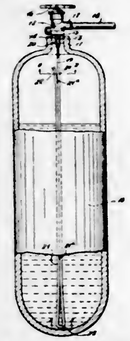
2,390,871

## APPARATUS FOR MIXING AND DISPENSING FLUIDS OF DIFFERENT DENSITIES

Donald J. Conway, Cleveland, Ohio, assignor to American Utilities Corporation, Cleveland, Ohio, a corporation of Delaware

Application March 13, 1944, Serial No. 526,222
6 Claims. (Cl. 62—1)

1. An apparatus for the purpose specified including a cylinder for dispensing under pressure a mixture of liquids differing widely in volatility and at least one of which exists normally in a gaseous condition, the said cylinder being provided at its top with a delivery valve body, a tube comprising a delivery branch connected to and extending downwardly from the said valve body to a point in close proximity to the bottom of the cylinder and a branch connected with the former branch and extending upwardly from the latter



to a point above the liquid level of a normally full charge of liquids within the cylinder, the delivery branch being provided with an inlet in the bottom thereof arranged for delivering liquid substantially axially into the said delivery branch and being provided with an inlet of substantially the same size above the said level and the opposite branch of the tube being provided with a relatively large inlet also located above the said level.

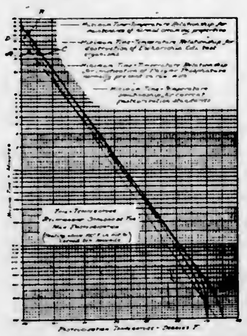
---

2,390,872

## PROCESS OF PASTEURIZING MILK

Arthur C. Dahlberg, Geneva, and Robert F. Holland, Seneca Castle, N. Y., assignors, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware

Application November 4, 1940, Serial No. 364,134
2 Claims. (Cl. 99—212)

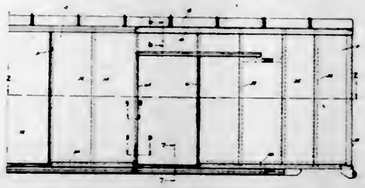


1. The biophysical process of pasteurizing milk containing enzyme phosphatase and *Escherichia coli* which comprises, preheating the milk to a temperature of approximately 140° F., heating the milk in a period of time less than 10 seconds from a temperature of approximately 140° F. to a temperature of approximately 170° F., holding the

milk at said last mentioned temperature for a period of time of approximately 4 seconds or less, cooling the milk subsequent to said holding period from the temperature of approximately 170° F. to a temperature of approximately 140° F. or less in a period of time less than 10 seconds, said heating, holding and cooling operations being accomplished at the specified temperatures and in a period of time of approximately 20 seconds or less during which period of time the creaming properties of the milk are maintained and the enzyme phosphatase is inactivated and the *Escherichia coli* is destroyed.

---

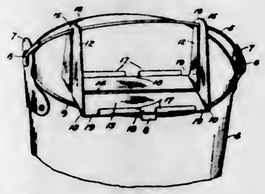
**2,390,873**
**FREIGHT CAR**
**Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio**
**Application June 23, 1943, Serial No. 491,865**
**15 Claims. (Cl. 105—376)**



1. A railway house car comprising side walls each embodying an inner lining, sections of said linings being hinged at a vertical edge to said side walls and swingable toward each other to form a vertical partition, locking means carried by said sections cooperable with means in said car for locking said sections in partition-forming position, said locking means being cooperable with other means in said car to lock said sections in lining-forming position.

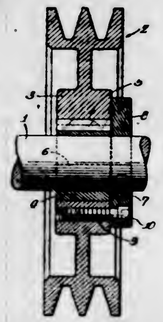
---

**2,390,874**
**SOAP SAVER TRAY**
**Robert A. Endebrock, Cincinnati, Ohio**
**Application February 29, 1944, Serial No. 524,416**
**10 Claims. (Cl. 45—28)**



3. In a soap tray for application to a bucket having a swinging bail, the combination which comprises, a soap supporting base portion and means for swingingly suspending said base portion from the bail, said suspending means being of such length as to dispose the base portion above the level of the bucket when the bucket is carried by means of the bail, and to guide the base portion onto the top edge of the bucket when the bail is swung to one side of the vertical position, and means on the side of the base portion of the tray for engaging the edge of the bucket, to limit movement of the tray centerward of the bucket while the bail is disposed to the position last mentioned.

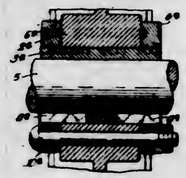
**2,390,875**
**ATTACHING MEANS FOR SHEAVES, ETC.**
**David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana**
**Application September 27, 1943, Serial No. 503,914**
**12 Claims. (Cl. 287—52)**



11. The combination comprising a pulley or other machine element having a straight-bored hub, a cylindrical member on which it is fitted, a straight-bored collar slip-fitted on said member, and threaded bolt means parallel with the shaft connecting said hub and collar in abutting relation, there being provision whereby said collar and hub can abut only in a manner other than squarely while their bores are substantially aligned and can abut squarely only in a relationship in which their bores are at a certain angle to each other, said bolt means being arranged for drawing them toward said relationship, whereby the tightening of said bolt means forcibly cants the collar to effect gripping of said member thereby.

---

**2,390,876**
**MOUNTING FOR PULLEYS, ETC.**
**David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana**
**Application February 21, 1944, Serial No. 523,229**
**7 Claims. (Cl. 287—52.07)**



6. A shaft-mountable unit comprising, in combination, a sheave or other machine element having a straight-bored hub, a hub bushing therein extending beyond an end of the hub, said bushing being split and contractible for at least a part of its length including and materially greater than the part of its length so extending, a collar fitted on the extended portion of the bushing, the collar being forcible to position to grip and contract the bushing, and screw means operable for forcing the collar to such position.



**2,390,877**
**GENERATOR**
**Hardin Y. Fisher, Hillside, Ill., assignor to Nicoud Mfg. Co., a corporation of Illinois**
**Application March 23, 1944, Serial No. 527,687**
**3 Claims. (Cl. 171—209)**



1. An alternating current generator adapted to be operated at widely varying speeds and to provide an approximately constant electrical output, including: a coil element; a permanent magnet element, these elements being relatively movable; and means providing a magnetic circuit including said coil but encircling said magnet, this means having spaced ends forming an air gap therein but being of relatively low reluctance, the reluctance being such that substantially no flux traverses said air gap until the output of the generator approaches the desired value, but low enough that there is a substantial quantity of flux traversing said gap when the generator is being driven at a speed at or above that providing the desired output, the spacing between said ends, and between the magnet and the enclosure when expressed in inches, and the area of each of said ends when expressed in square inches, being substantially numerically equal.

---

**2,390,878**
**CHAIR**
**Meyer Greitzer, Los Angeles, Calif.**
**Application July 17, 1943, Serial No. 495,151**
**7 Claims. (Cl. 155—196)**



2. In a chair, a frame formed in a single piece resilient from metal tubing, said frame having a pair of horizontally disposed seat supporting rails in which are formed apertures, a seat, reinforcing rails on the under-side of said seat and studs projecting from the ends of said reinforcing rails and adapted to be received by the apertures in the seat supporting rails of the chair frame.

---

**2,390,879**
**PROPELLER FAN**
**Harold F. Hagen, Wellesley, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.**
**Application September 21, 1940, Serial No. 357,767**
**4 Claims. (Cl. 170—159)**

1. In a propeller fan, an airfoil air coacting element having a smoothly curved chord line formed tangent at the entrance edge of the element to the velocity vector Re and formed tangent at the delivery edge of the element to the vector equal to and forming the opposite vector to the vector Rl in the parallelogram of vectors including Re and Rl as adjacent sides, where

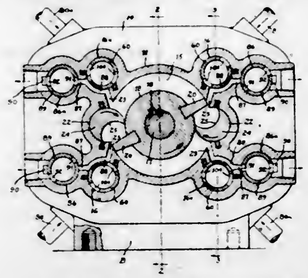
Re=the relative velocity between the air and the element at the entrance edge of the element, and



Rl=the relative velocity between the air and the element at the delivery edge of the element.

---

**2,390,880**
**ROTARY REVERSING ENGINE**
**Harmon H. Harrold, Wooster, Ohio, assignor of one-half to Roy Conn, Wooster, Ohio**
**Application August 16, 1944, Serial No. 549,704**
**7 Claims. (Cl. 121—71)**



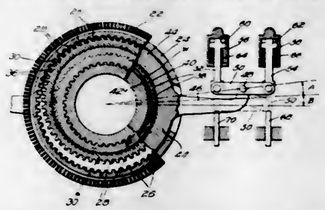
7. A rotary reversing engine comprising a casing having a central main compartment, two pairs of diametrically opposed intake compartments communicating with the main compartment through parts, a substantially half cylindric recess in the wall of the main compartment between each pair of said ports, an exhaust valve compartment adjacent to each intake compartment there being an annular enlargement in each intake valve compartment surrounding the intake valve therein and forming a by-pass communicating with the adjacent port and with the adjacent exhaust valve compartment, a rotor in the main compartment having two diametrically opposed blades the peripheries of which contact the walls of the main compartment a rotary abutment in each recess and having an arcuate groove for rolling contact with the peripheries of said blades, exhaust valves in the exhaust valve compartments, means for selectively admitting fluid pressure to either pair of intake compartments and means for closing the corresponding pair of exhaust valves and opening the other pair.

---

**2,390,881**
**SPARK CONTROL**
**Axel L. Highberg, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application December 23, 1942, Serial No. 469,929**
**6 Claims. (Cl. 123—149)**

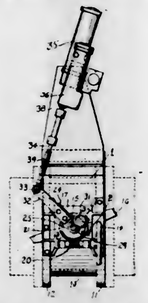
1. Apparatus for controlling the spark timing on an aircraft engine having a crankshaft, a magneto and a train of gears driving said magneto, one of said gears being normally non-rotatable, in combination with means adjustable while the en-

gine is in operation for slightly rotating said normally non-rotatable gear, said rotating means including a hydraulic cylinder operatively connected to said adjustable gear.



---

**2,390,882**
**DECLUTCHING DEVICE FOR POWER-DRIVEN BUTTERFLY VALVES**
**David W. Hopkins, Philadelphia, Pa.**
**Application September 7, 1942, Serial No. 457,580**
**4 Claims. (Cl. 74—407)**

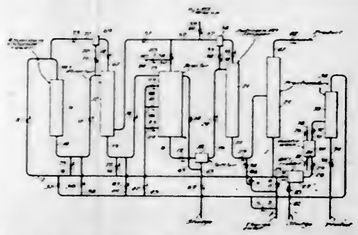


1. In a valve, an oscillatible shaft, a motor, linkage connected to the motor and arranged for reciprocation, an arm mounted on the shaft having a free end pivotally connected to the reciprocating linkage, said arm carrying a detent element arranged for selective disposition either within the arm or protruding therefrom transversely thereof, a gear rotatably mounted on the shaft, a second gear for rotating the first gear, said first gear having a recess with which the detent element engages in the protruding position to establish driving relation between the second gear and the shaft.

---

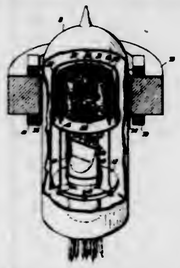
**2,390,883**
**ISOMERIZATION OF SATURATED HYDROCARBONS**
**John O. Iverson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application October 7, 1942, Serial No. 461,131**
**16 Claims. (Cl. 260—683.5)**

1. An isomerization process which comprises subjecting a saturated hydrocarbon to isomerizing conditions in a reaction zone in the presence of a metallic halide catalyst of the Friedel-Crafts type, a hydrogen halide and hydrogen, removing the resultant products from said zone and separating therefrom a gas containing hydrogen and hydrogen halide, simultaneously with the foregoing operation passing a saturated hydrocarbon liquid through a catalyst supply zone containing a metallic halide of the Friedel-Crafts type and therein dissolving at least a portion of the catalyst in said liquid, maintaining the last-named zone under hydrogen pressure whereby to dissolve hydrogen in the hydrogen-catalyst solution, removing a liquid solution comprising hydrocarbon liquid, dissolved catalyst, and only the amount of hydrogen soluble therein from the supply zone and contacting said gas therewith to dissolve hydrogen halide in the solution and to separate hydrogen from hydrogen halide, introducing thus separated hydrogen to the catalyst supply zone, and supplying the solution from the contacting step to said reaction zone.



---

**2,390,884**
**PHASE SHIFTER**
**Karl G. Jansky, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 15, 1943, Serial No. 510,357**
**20 Claims. (Cl. 315—14)**



1. A variable phase shifter comprising a rotary beam electron tube which includes a linear cathode, a cylindrical anode concentric with said cathode, a plurality of control grids spaced from each other and so shaped and positioned that said grids form a segmented cylinder concentric with said cathode between said cathode and said anode and means for impressing equal quadrantal voltages upon said grids, each of said grids overlapping the two adjacent grids in a direction parallel with the longitudinal axis of said cathode.

---

**2,390,885**
**HANDCUFF**
**Francis G. Kelley, Springfield, Mass., assignor to Peerless Handcuff Company, Springfield, Mass., a corporation of Massachusetts**
**Application February 16, 1944, Serial No. 522,585**
**8 Claims. (Cl. 70—16)**

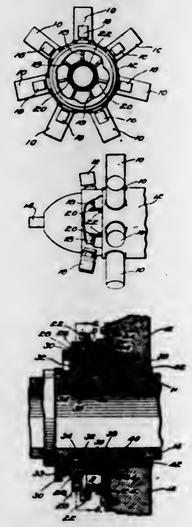
1. A handcuff of the type shown with a rotatable arm having peripheral teeth, a lock casing having an open top to be closed by said arm, a spring pressed latch having teeth permitting one direction and preventing the other direction of rotation for said arm, the peripheral teeth of said arm being divided into two outside rows with a slot between, a narrow bar carried rigidly on the latch and in line with said slot, said bar being in position when the handcuff is in latch locking position to block off a picking tool between the lock casing end wall and said peripheral teeth.



---



**2,390,886**
**MULTIPLE MAGNETO DRIVE**
**Alexander H. King, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application May 10, 1944, Serial No. 534,896**
**6 Claims. (Cl. 123—149)**



1. In combination with three or more fixed magnetos arranged in a circumferential row around an engine crankshaft, a magneto drive shaft extending radially inward from each said magneto toward the crankshaft axis, a gear train drivingly connecting each of said magneto drive shafts with said crankshaft for simultaneously and positively driving all said magneto shafts at a predetermined speed relative to the speed of said crankshaft, and means for simultaneously and similarly changing the angular position of each of said magneto shafts with respect to said crankshaft.

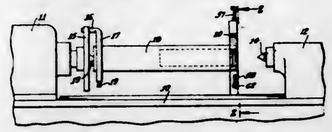
---

**2,390,887**
**COATING COMPOSITIONS**
**Alan L. Kling, Newtonville, Mass., assignor of one-third to Chalmers F. Landrey, Needham, and one-third to Galen A. Bloom, Newtonville, Mass.**
**No Drawing. Application March 2, 1943, Serial No. 477,767**
**1 Claim. (Cl. 106—15)**

A moth repelling paint for indoor use, comprising a water dispersible paint vehicle selected from the group consisting of animal and vegetable protein bases, said vehicle containing in suspension solid particles of a volatile insecticide, said insecticide consisting of at least one of the group consisting of naphthalene and para-dichlorobenzene, said paint vehicle, when dried, forming a porous coating around the solid particles of the volatile insecticide, and allowing said insecticide to evaporate only very slowly, so that the effectiveness of such insecticide is extended over a long period of time.

---

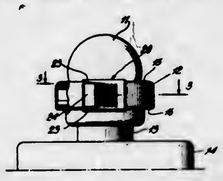
**2,390,888**
**STEADY REST FOR LATHES**
**Walter F. Liber, Meriden, Conn.**
**Application November 1, 1943, Serial No. 508,497**
**3 Claims. (Cl. 82—38)**



1. The combination with a lathe including a headstock having a center point therein for mounting and supporting one end of a workpiece, of a mounting for axially and rotatably supporting the other end of the workpiece, said mounting comprising a two-part holding block supported upon the lathe bed, means to hold said block in adjusted position along the length of said bed, said block having a plurality of radial yokes, a plurality of slotted plates carried by said yokes, the inner ends of said plates arranged to engage said workpiece and prevent radial play thereof, the inner ends of said plates being also provided with adjustable work-engaging finger pieces located in the slots of said plates and extending beyond said inner ends and arranged to engage the end of said workpiece to prevent axial play thereof, and screw means to clamp each of said finger pieces in position within its respective plate.

---

**2,390,889**
**CLOSURE FOR CONTAINERS**
**Alex Limbach, Carmel, N. Y.**
**Application November 3, 1944, Serial No. 561,687**
**4 Claims. (Cl. 220—41)**

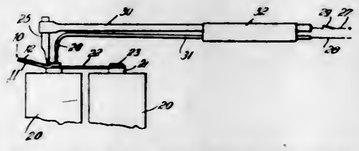


1. A device of the character described comprising an annular band having re-entrant shoulders

and an offset portion containing an aperture, a slider having converging flanges engaging said shoulders to mount said slider on said band for to and fro movement, a pair of cuts at one end of said slider forming a resilient tongue, a strip of sealing material arranged on the inner surface of the slider over its entire length, a tab at the end of said tongue and a tab at the opposite end of said slider extending inwardly over the ends and around the inner corners of said strip to attach it to said slider, said tabs engaging said band and serving to maintain said strip out of contact with said band except when said strip overlies said offset portion.

---

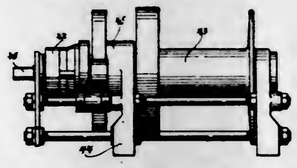
**2,390,890**
**METHOD OF SOLDERING**
**Allison M. MacFarland, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware**
**Application February 4, 1943, Serial No. 474,672**
**1 Claim. (Cl. 113—112)**



The method of soldering which comprises placing an end portion of an elongated composite soldering member against the parts to be soldered, said soldering member being composed of an element of metallic solder and a metallic backing element in conjoint relation with each other, said backing element having a cross-sectional area substantially less and a melting point substantially higher than that of said solder, arranging said soldering member with the solder element in contact with said parts, heating said end portion of said elongated soldering member to cause fusion of said solder, holding said heated end portion against said parts and pulling on a different portion of said soldering member to cause said end portion to separate from the remainder of said soldering member, and discontinuing said heating.

---

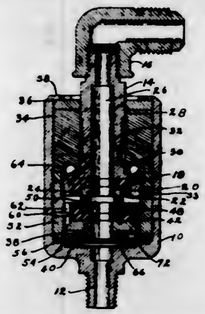
**2,390,891**
**SAFETY LOWERING AND CONTROL MECHANISM FOR WINCHES AND THE LIKE**
**Charles C. Martin, Cleveland Heights, Ohio, assignor to David Round & Son, Garfield Heights, Ohio, a firm**
**Application August 1, 1944, Serial No. 547,577**
**3 Claims. (Cl. 254—186)**



3. A winch comprising spaced apart base supported frames, a drum journaled between said frames, a driving gear outside of one of said frames operatively connected to said drum for actuating the same, a safety lowering and control mechanism associated with said gear and frame comprising a shaft journaled in said one frame and having an integral pinion engaging said gear, a braking disk having a longitudinally extending screw threaded hub fixed on said shaft, a clamping member mounted on said hub having complementary screw threads for engaging with the screw thread of said hub, a floating braking disk between said braking disk and clamping member, said clamping member having an annular extending bearing portion for journaling said floating braking disk, said floating braking disk being provided with ratchet teeth on its circumference, a pawl pivotally mounted on said one frame for engaging said ratchet teeth, a housing on said clamping member for enclosing one end of said shaft and being provided with a projection for releasably mounting a hand crank.

---

**2,390,892**
**PIPE COUPLING**
**Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application July 26, 1943, Serial No. 496,154**
**6 Claims. (Cl. 285—97.3)**

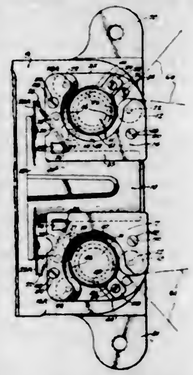


1. In combination, a substantially cup shaped casing, a spring washer adjacent the bottom wall thereof, a diaphragm assembly having a substantially central aperture and having its inner portion in engagement with said spring washer and its outer portion in sealing engagement with the bottom wall of said casing, a seal ring supported from the inner portion of said diaphragm assembly, a rotatable conduit having a seal surface in sealing engagement with said seal ring and having an opening in alignment with said aperture, and bearing means within said casing for said conduit.

---

**2,390,893**
**FILM RETAINER FOR CINEMATOGRAPH SPROCKETS**
**Thomas J. Morgan, Chicago, and Arthur S. Dearborn, Hinsdale, Ill., assignors to Ampro Corporation, a corporation of Illinois**
**Application February 17, 1943, Serial No. 476,150**
**10 Claims. (Cl. 271—2.3)**

1. The combination with a film sprocket of a pair of guide rollers both fixedly positioned on axes locating said rollers out of peripheral contact with said sprocket a distance greater than the thickness of a film and so adjacent to said sprocket that a line connecting their axes intersects said sprocket whereby a film spanning said rollers partially encircles said sprocket and is held in peripheral contact with said sprocket by the resilience of the film, and a film-retainer roller mounted intermediate said guide rollers and shiftable into and out of position to provide a



single point of mechanically-induced contact of said film with said sprocket between said guide rollers.

---

**2,390,894**
**FILM SPOOL**
**John F. Morse, Hudson, Ohio**
**Application August 2, 1944, Serial No. 547,755**
**8 Claims. (Cl. 242—74)**

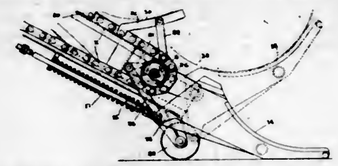


3. A spool for the uses and purposes set forth comprising two spool flanges, a hollow core between the flanges, said core being provided with a gap communicating with the interior of the core, the inner wall of the core having a surface which is eccentric to the axis of the spool, and a clamp within the core and rotatable on the axis of the spool, said clamp having a surface which is movable by rotation of the clamp into and out of contact with the inner wall of the core.

---

**2,390,895**
**CONVEYER MECHANISM**
**Walter W. Pabst, Elizabeth, N. J.**
**Application May 30, 1945, Serial No. 596,673**
**4 Claims. (Cl. 198—27)**

1. A gravity conveyer comprising, in combination, a frame having a receiving end and a discharge end and adapted to operate in a position inclined from the horizontal, a rotatable cross shaft journalled at the receiving end and a second rotatable shaft journalled at the discharge end of the frame, sprocket wheels on said shafts at their respective ends, endless conveyer chains on said sprocket wheels extending from end to end of said frame in parallel relation and adapted to be driven by the weight of a load removably carried thereon, a load supporting element on the said chains upon which the said load is adapted to rest, a spring held swinging cradle pivotally mounted at the discharge end of the said frame



and adapted to receive the load from said conveyer and to be swung thereby and clutch means connected with said cradle and conveyer whereby the conveyer chain is advanced by the swinging of the cradle when the load is discharged from the conveyer.

---

**2,390,896**
**TORCH HOLDING AND ADJUSTING DEVICE**
**Raymond L. Pelland, Jr., Chicago, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware**
**Application April 28, 1943, Serial No. 484,873**
**6 Claims. (Cl. 248—286)**



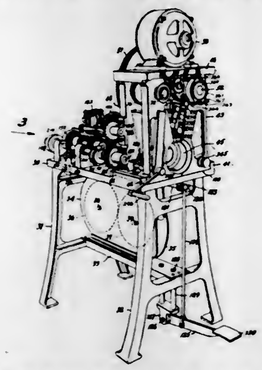
1. A torch clamping and adjusting device comprising a sleeve adapted to embrace a torch barrel, a plurality of circumferentially spaced torch confining elements carried by said sleeve, and a member for moving said elements into engagement with the torch barrel to center and clamp the latter, said sleeve having rigid with one side thereof a tubular projection extending tangentially therefrom, a support for said sleeve having a lockable hinge connection to said tubular projection with the axis of said hinge extending axially of said tubular projection, and means for mounting said support for pivotal adjusting movement about an axis substantially at right angles to the axis of said hinge connection.

---

**2,390,897**
**MACHINE FOR MANUFACTURING DYNAMO ARMATURES**
**Lora E. Poole and Ernest R. Fausset, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Original application January 6, 1940, Serial No. 312,796. Divided and this application February 9, 1942, Serial No. 430,030**
**6 Claims. (Cl. 270—54)**

1. Apparatus for folding coil retainer members for electrical apparatus from flat stock, comprising in combination; a support for a supply of flat strip insulating material; a series of deforming members for progressively folding the strip

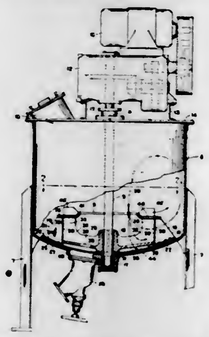
lengthwise into a plurality of U-shaped members, said means including cooperating forming rollers for deforming and creasing the strip first on each side of a medial line into a single U-shape member and for gripping the strip material so as to pull the strip from the supply and for feeding the strip to the remaining deforming members, certain of said remaining deforming members operating to fold the arms along the creases of the U-shaped member against an intermediate



portion of the strip to provide a pair of opposed set U-shaped members of equal length while the remaining deforming member cooperates to bend the intermediate portion of the strip along the center line of said strip into another U-shaped portion so as to set up internal stresses tending to straighten the intermediate portion; and means for holding the last mentioned formation until same is inserted into a slot provided by the electrical apparatus.

---

**2,390,898**
**TURBODISSOLVER**
**Clarence R. Rechtin, Bridgetown, and John E. Trostle, Cincinnati, Ohio, assignors to The J. H. Day Company, Cincinnati, Ohio, a corporation of Ohio**
**Application October 6, 1943, Serial No. 505,146**
**7 Claims. (Cl. 259—96)**



1. In a turbo-dissolver, the combination of a tank having a side wall and a bottom, a circular ring of stationary knives upstanding within the tank, said knives having back edges spaced from the side wall of the tank to provide an escape passageway for liquid-borne material undergoing processing within the tank, an open well in the tank defined by the knife edges and having as its bottom the bottom of the tank, an open topped impeller fitted within the well and arranged for rotation therein in a horizontal plane, said impeller having a bottom overlying the tank bottom, and a series of radially disposed blades supported above the impeller bottom and extending outwardly to close proximity with the circular ring of knives, the outer ends of the blades including shearing edges to cooperate with the ring of knives when the impeller is rotated, for comminuting solid material introduced into the tank with the carrier liquid, means associated with the impeller blades to draw downwardly into the open top of the impeller the solid material and carrier liquid above the impeller, and to place said liquid-borne solid material under the centrifuging influence of the impeller blades, for subjection of said material to the shearing action of the knives, said material after leaving the knives being circulated into the escape passageway behind the knives and directed upwardly along the tank side wall for re-entry into the open top of the impeller, a connector ring joining the upper ends of the blades on the rotating impeller, a second connecting ring joining all the stationary knives together, said second ring being disposed at substantially the same elevation as the first mentioned ring, and a series of vanes on the impeller above the connecting ring of the latter, for agitating and centrifuging material across both rings to scrub them continuously as the impeller rotates.

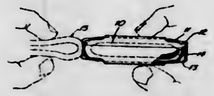
---

**2,390,899**
**GAS PROCESSING**
**Robert M. Reed, Louisville, Ky., assignor to The Girdler Corporation, Louisville, Ky., a corporation of Delaware**
**No Drawing. Application August 11, 1943, Serial No. 498,265**
**7 Claims. (Cl. 23—2)**

5. In the process of scrubbing acid gases from gaseous mixtures by the action of an aqueous solution of monoethanolamine, the improvement which consists in preventing foaming of the solution by adding oleyl alcohol to the solution.

---

**2,390,900**
**PACKAGE AND METHOD OF PACKING**
**Carl J. Schmid, New York, N. Y., assignor to Julius Schmid, Inc., New York, N. Y., a corporation of New York**
**Original application April 20, 1939, Serial No. 269,026. Divided and this application May 1, 1943, Serial No. 485,566**
**3 Claims. (Cl. 206—63.2)**



1. The method of packing a tenacious thin film article of substantially cup-shape, which comprises first the step of rolling the article upon itself in successive peripheral folds from its open end to its closed end to form a circular ring of high resilient resistance to radial distortion and of spiral rim section webbed by the closed end of the cup, second, the step of radially distorting the ring into an elongated closed loop having slightly



laterally spaced substantially parallel sides constituted by portions of the rim, and third, the step of encasing the article in a shield of less tenacity and resilience around the article entirely protecting and holding it in said loop shape and providing for finger tip gripping of edge portions of the shield whereby the latter may be opened or torn for the removal of the article and the gripping and removal effected without injury to the article.

---

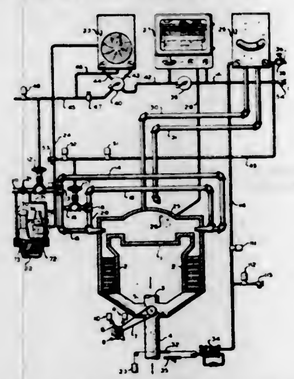
**2,390,901**
**BOOK SIGNATURE FEEDING METHOD**
**Carl Schramm, North Coventry, Conn., assignor to Smyth Manufacturing Company, Hartford, Conn., a coporation of Connecticut**
**Application March 13, 1944, Serial No. 526,144**
**7 Claims. (Cl. 270—54)**



1. The method of opening book signatures that have folded body leaves and end leaves, which comprises mutilating the end-leaves of the signatures by cutting away or perforating them at or near their edges outside of the trim lines of the signatures, and subjecting the end-leaves and the signature leaves inside of said mutilations, coincidently to the pull of suction means.

---

**2,390,902**
**CONTROL SYSTEM**
**Joseph P. Vollrath, Glenside, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application August 28, 1942, Serial No. 456,531**
**9 Claims. (Cl. 236—15)**



1. In a regenerative furnace control system in which fuel and an injection fluid are supplied alternately to each end of the furnace, a pipe line to direct fuel to the furnace ends, a pipe line to direct injection fluid to the furnace ends, a pneumatic control valve in each of said pipe lines, a valve in each of said pipe lines to direct the material therein to either end of the furnace, said latter valves being located between said pneumatic valves and the furnace whereby a single pneumatic valve in each of said fuel and injection fluid pipe lines may control the flow of material to both ends of the furnace, a supply of air to each of said pneumatic valves, electrically actuated means separately operative to control the supply of air to said pneumatic valves and means to simultaneously energize said electrically actuated means.

7. In a regenerative furnace reversing system, the combination of fuel and injection medium supply lines, a pneumatic valve in each of said supply lines, a supply of air for each valve and adapted to open the same when applied to each valve, electrical means to control the application of air to each of said valves, a damper to control the pressure in the furnace, a supply of air to control the operation of said damper, additional electrical means to control the application of air to said damper, reversing means to reverse the supply of combustion air to the furnace, a motor to operate said reversing means, and means operated by said motor to actuate each of said electrical means while said motor is running.

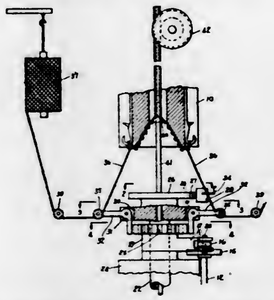
---

**2,390,903**
**FABRIC AND PROCESS OF PRODUCING IT**
**William H. von Glahn, Loudonville, and William L. Walsh, East Greenbush, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application February 25, 1942, Serial No. 432,304**
**17 Claims. (Cl. 8—114.6)**

1. A process for producing yarns which are stable on storage but may be disintegrated by heating, which comprises treating material comprising a yarn selected from the group consisting of vegetable fibers, artificial fibers of vegetable origin and silk with a solution of a sulfuric acid salt of an organic base to impregnate at least part of said yarn therewith and drying the thus-treated yarn at a temperature below that at which said salt is decomposed.

---

**2,390,904**
**APPARATUS FOR HANDLING STRANDS**
**Julius A. Wagner, Cleveland Heights, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application July 14, 1944, Serial No. 544,942**
**4 Claims. (Cl. 66—163)**

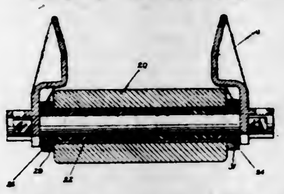


1. In a strand supplying apparatus, a holder for a strand supply, means for advancing a strand from said holder, and means for stopping the advancing means, comprising a switch for deenergizing the advancing means, a cam, an oscillating means, and a member pivotally mounted on said cam with one end thereof nor-

mally held in a raised position by a strand being advanced from said holder for positively connecting said oscillating means to said cam to actuate said switch whenever said strand fails to support the end of said member.

---

2,390,905
**OSCILLATING JOINT**
Herman E. Wening and Rex E. Moule, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 12, 1942, Serial No. 461,658
5 Claims. (Cl. 173—324)



1. An oscillating joint comprising an outer tubular metallic sleeve member, an inner metallic member disposed to fit within the outer said member and having a clearance therebetween, a rubberlike bushing containing 38% or more of a conductive carbon black therein disposed around said inner member and between said inner member and said sleeve and held therebetween under compression sufficient to at least reduce the normal free diameter of the bushing 8% or more whereby a conducting path for electrical charges from said sleeve to said member is formed through the bushing.

---

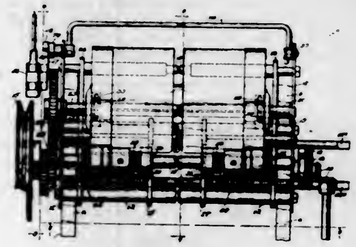
2,390,906
**ARTICLE OF MANUFACTURE**
Edith A. Westerberg, New York, N. Y.
No Drawing. Application August 16, 1944, Serial No. 549,805
6 Claims. (Cl. 252—368)

1. A new article of manufacture, a soap powder formed by mixing 9 ounces avoirdupois of soap with 24 ounces fluid of cold water to form an emulsion, then adding 24 ounces fluid of water heated approximately 180° F. then heating the resulting mixture until it reaches 65° C. then adding a water soluble coloring and the desired perfume, placing in a vessel open to the atmosphere and subject to observation and beating the mass at a speed of approximately 200 R. P. M. until it assumes an appearance of colored frothiness and will hold its body and color, then increasing the speed until it is approximately 265 R. P. M. and continue until it assumes a roll appearance, then reducing the speed of the beater to approximately 200 R. P. M. and continue until the mass shows a pattern similar to pie crust and which when separated will show a sharp edge, drying said mass by exposure to air, then reducing the dried mass to a fine powder of the same color as that used in the mixture.

---

2,390,907
**STATIONERY FEEDING AND TRIMMING DEVICE**
Charles Louie Winter, Chicago, Ill., assignor to United Autographic Register Company, a corporation of Illinois
Application April 10, 1944, Serial No. 530,267
6 Claims. (Cl. 164—61)

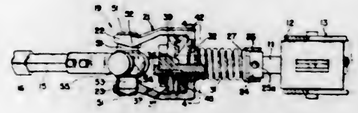
6. A trimming device for marginally punched stationery comprising: a frame provided with a pair of driving cross-shafts; rotary cutter rolls splined to said cross-shafts; a third driving shaft in front of the cutter rolls geared to one of said driving cross-shafts; a pin wheel splined to said



third shaft to engage marginal punch holes and control the advance of said strip; and means for shifting said rotary cutter rolls and pin wheel laterally as a unit.

---

2,390,908
**SLIP CLUTCH**
Austin E. Young, Syracuse, N. Y., assignor to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y., a corporation of New York
Application May 1, 1943, Serial No. 485,569
2 Claims. (Cl. 64—29)



2. A combined slip joint and universal joint for connecting two shafts, a slip clutch disk fixed to one end of one shaft in non-rotatable relation and having angled tooth faces, a universal joint yoke having an apertured central section embracing said one shaft at the side of said clutch disk opposite the end of the shaft to which said clutch disk is secured, said yoke having arms embracing said clutch disk and a companion slip clutch disk also having angled faces cooperating with said first slip clutch disk, means establishing a driving connection between said companion slip clutch disk and said yoke, a universal joint spider pivoted about one axis to the other shaft and pivoted about another axis to said arms adjacent the end of said one shaft and said first clutch disk, a spring disposed about said one shaft outside said yoke and bearing at one end against the latter, and abutment means on said one shaft spaced axially from said yoke and receiving the reaction of said spring, said yoke moving along said one shaft toward said abutment means when one of said clutch disks slips relative to the other, as under an overload.

---

2,390,909
**CARTON**
Julius A. Zinn, Jr., Belmont, Mass.
Application January 15, 1942, Serial No. 426,795
7 Claims. (Cl. 229—37)

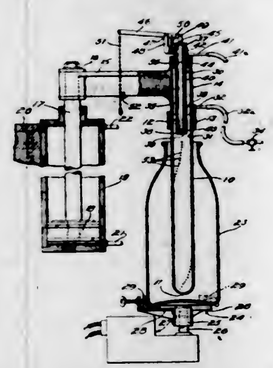
1. A carton comprising a rectangular body portion having four side walls each shaped to taper downwardly, two opposed side walls being provided with rectangular shaped bottom flaps folded and adhesively secured together at their contacting interface surfaces in overlapping relation, each such bottom flap being of substantially the size of the bottom of the carton to form a relatively rigid bottom closure therefor, the two remaining side walls being each provided with an intermediate flap folded upon and adhesively secured at their contacting interface surfaces to the last folded of the aforesaid rectangular shaped bottom flaps, each of such bottom flaps being provided with an integral sealing tap folded upon and adhesively secured to the inner surface



of one of said intermediate flaps and forming a double thickness with adjacent portions thereof, one of said bottom flaps being of a double thickness throughout the major portion thereof and of but a single thickness at those portions where said sealing tabs overlie the bottom of the carton, whereby to compensate for the thickness of said sealing tabs and to permit those portions of the intermediate flaps which extend beyond said sealing tabs to lie flat against and form an efficient sealing engagement with the last folded of said bottom flaps.

---

2,390,910
**METHOD OF COOLING GLASS ARTICLES**
William E. Aksomitas, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application January 27, 1943, Serial No. 473,687
8 Claims. (Cl. 49—89)



1. The method of cooling a hot glass article which comprises applying to said glass article a coolant consisting of gaseous fluid and as much liquid mixed with the gaseous fluid as will vaporize on contact with the hot glass article when said article is at the temperature at which the cooling operation is started and reducing the amount of liquid in said coolant as the temperature of said article is reduced during said cooling operation.

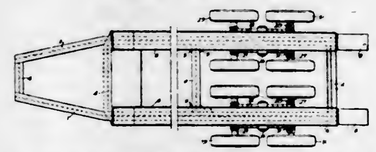


2,390,911
**INSECTICIDE AND METHOD OF MAKING SAME**
Thomas C. Allen and Herbert H. Harris, Madison, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
No Drawing. Application August 3, 1942, Serial No. 453,420
5 Claims. (Cl. 167—24)

1. The method of increasing the toxicity of sabadilla seed to housefies over the natural toxicity thereof, which consists in comminuting the seed and heating the comminuted seed in a solvent of kerosene to a temperature sufficiently above normal temperature and for a sufficient period of time to develop maximum toxicity.

---

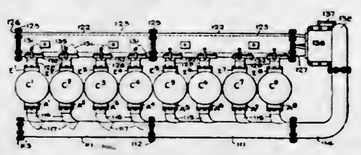
2,390,912
**TANDEM AXLE VEHICLE**
Allyn L. Ayers, Oakland, Calif.
Application May 22, 1942, Serial No. 444,018
7 Claims. (Cl. 280—81)



1. A vehicle comprising: a pair of parallel, laterally spaced bogies, each bogie including a trailing axle articulated thereto for swinging movement in a substantially horizontal plane and a forward axle; and a longitudinally extending beam carried by each of said bogies with the opposed wheels of each bogie straddling the beam which it supports, the forward axles of the two bogies being normally coaxial, and the trailing axles of the two bogies being normally coaxial.

---

2,390,913
**INLET AND EXHAUST CONNECTIONS FOR INTERNAL-COMBUSTION ENGINES**
Charles G. Barrett, Alexandria, Va., assignor to himself and Edward C. Magdeburger, as trustees
Application November 30, 1942, Serial No. 467,390
20 Claims. (Cl. 60—13)



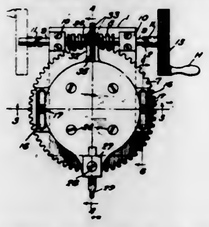
2. The combination of an internal combustion engine having a plurality of cylinders each with inlet and exhaust connections which are cyclically opened and closed; means forming a group of distinct inlet passages for conducting inlet air to the inlet connections, said passages being individual at least to the extent that the open periods of inlet connections fed by one passage do not materially overlap, the passages of said group being long enough to inhibit substantial cross flows between passages of the group and so proportioned and arranged as to produce inertia effects favoring inlet flow toward the cylinder; means forming a group of distinct exhaust pas-

sages for conducting exhaust gases from the exhaust connections, said passages being individual at least to the extent that open periods of exhaust connections discharging into one passage do not materially overlap; a fluid pressure operated motor having individual connections with the passages of the exhaust group; and a blower driven by said motor and connected to deliver air under pressure to the passages of the inlet group.

9. A manifold for multicylinder engines, said manifold comprising a shell structure having branch connections for connecting with respective cylinder ports, some of said branch connections, all of which are comprised within one half of the manifold, having extensions which project nearly to the center of the manifold; and a divider structure comprising a central core with helicoidal vanes subdividing the interior of the shell into passages half as numerous as the branch connections and each passage communicating with two thereof.

---

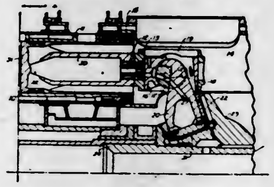
**2,390,914**
**RADII TOOL AND DRESSER**
**Salvatore Barrera, Brooklyn, N. Y.**
**Application June 20, 1944, Serial No. 541,203**
**6 Claims. (Cl. 82—11)**



6. Radii dresser comprising in combination a fixed member and a tool carrier, each of said members having a slideway, said members arranged with the slideway in one perpendicular to the slideway in the other, a key member having portions slidable in each of said slideways, ring members journaled upon the fixed member and tool carrier respectively with parallel axes, means for adjustably displacing the axes of said ring members in their plane of rotation, whereby said rings constitute an adjustable eccentric to modify the radius of the orbit transcribed by the tool carrier.

---

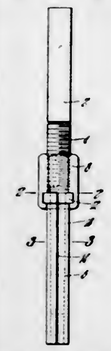
**2,390,915**
**PISTON**
**Allison L. Bayles, Larchmont, N. Y., assignor to Rogers Diesel and Aircraft Corporation, New York, N. Y., a corporation of New York**
**Application September 2, 1944, Serial No. 552,513**
**3 Claims. (Cl. 309—2)**



1. A reciprocating member for an internal combustion engine comprising a crosshead and a piston, a piston head on said piston, a tubular column coaxial with the piston and crosshead, radial webs connecting said column with said piston head with spaces between said webs for the flow of oil, said column being constricted at attachment to said webs, the thrust of said piston head being carried thru said webs and column to said crosshead, and a piston skirt depending from said piston head surrounding but not otherwise attached to said column.

---

**2,390,916**
**TOOL**
**Herman A. Bothner, Springfield, Mass.**
**Application November 11, 1944, Serial No. 562,941**
**1 Claim. (Cl. 51—184.3)**



A tool of the class described comprising in combination, an elongated body member having upper manually engageable and lower downwardly tapering portions with a screw threaded portion therebetween, a nut separable from said body having a longitudinal bore screw threaded at its upper end for engaging said screw threaded portion and the lower end thereof having an opening extending outwardly from said bore through a side thereof providing sockets for receiving the upper flange and adjacent portion of a lap member, a one-piece lap member having a flange at its upper end and provided with a longitudinal bore conforming to the lower tapering portion of the body and with a longitudinally extending slot at a side thereof leading into said bore, all adapted and arranged whereby with said nut separated from said body the flange and adjacent portion of the lap member may be inserted in the sockets of the nut and the lower tapering portion of the body may be passed through the bore of the nut into the bore of the lap to engage the screw threads of the body and nut so that on rotation of the nut relative to the body the lower tapering end of the body acts in the bore of the lap to expand it.

---

**2,390,917**
**PROCESS FOR REFINING PETROLEUM OILS**
**Ferdinand W. Breth and Anthony Kinsel, Petrolia, Pa., assignors to L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware**
**Original application March 14, 1939, Serial No. 261,790. Divided and this application October 2, 1943, Serial No. 504,808**
**4 Claims. (Cl. 196—147)**

1. The process of refining petroleum hydrocarbons, which comprises bringing said hydrocarbons



into intimate contact with thermally activated bauxite predominating in particles of a particle size within the range of 20 to 80 mesh, which have been contacted at a temperature of from 1000° F. to 1200° F. with a current of preheated air having a velocity of from 4 to 6 feet per second




to substantially free said particles of adherent relatively finer particles inseparable therefrom by screening, said air being at a temperature of from 120° F. to 220° F. at the point of first contact with said bauxite and at a temperature of from 200° F. to 250° F. at the point of last contact with said bauxite.

---

**2,390,918**
**γ-NITRO MONOCARBOXYLIC ESTERS**
**Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Application December 28, 1943, Serial No. 515,977**
**6 Claims. (Cl. 260—478)**

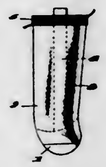
3. As a new compound, an ester of the formula:

$$O_2N-\underset{\displaystyle R''}{\overset{\displaystyle R'}{\underset{|}{\overset{|}{C}}}}-CH_2CH_2COOR$$

wherein R' and R'' are selected from members of the class consisting of hydrogen and lower alkyl groups and R is a lower alkyl group.

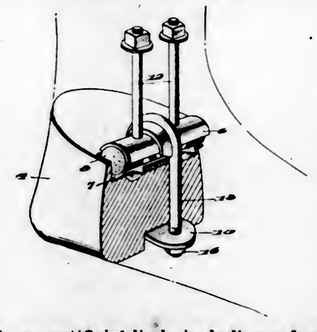
---

**2,390,919**
**ARTIFICIAL LIMB**
**Louis G. Caron, Washington, D. C.**
**Application March 15, 1943, Serial No. 479,257**
**8 Claims. (Cl. 32—2)**



1. A process of making an artificial limb member comprising shaping a sheet of semi-rigid material to the form required and in overlapping relation with a base block, and winding cement-saturated cord in a layer over said formed sheet and overlapped portion of the base block with the windings of said cord adhesively secured to each other and to said sheet to form a substantially rigid structure and retaining the form of said sheet.

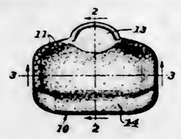
**2,390,920**
**ANKLE JOINT**
**Louis G. Caron, Washington, D. C.**
**Application June 20, 1944, Serial No. 541,227**
**3 Claims. (Cl. 3—6)**



1. In an artificial limb, including a foot and a shin section, an ankle joint connecting the foot and shin section together for relative swinging movement about a transverse axis, said ankle joint including a pintle and a yoke connected with said members and having journaled connection with each other, said pintle including a pair of sections extending lengthwise of the hinge axis, and means pivotally connecting said sections together intermediate the length thereof for relative swinging movement in a direction transverse to the hinge axis.

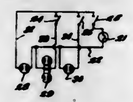
---

**2,390,921**
**APPLICATOR FOR FACIAL CREAMS**
**John W. Clark, Washington, D. C., assignor of one-third to Ethel Hudson Clark, Washington, D. C.**
**Application March 23, 1943, Serial No. 480,240**
**1 Claim. (Cl. 15—104)**



An applicator for facial creams comprising a semi-flexible pad having a concave rubbing face for retaining the cream deposited thereon, said pad being provided with spaced longitudinally extending lower and upper edges, the transverse arc of the concave face being of shorter radius than that of its longitudinal arc so as to conform to the face of the user, said concave face having a relatively smooth rubbing surface of substantially uniform contour made up of alternate closed shallow pockets to receive the cream and slight ridges uniformly distributed over the rubbing surface, the ridges being disposed to provide zig-zag beard-engaging and straightening means, a thickened cream overflow retaining rib at the lower longitudinal edge of said pad, said rib being of greater rigidity than the remaining portion of the pad so as not to yield as readily during manipulation and shaped to prevent the escape of cream over the lower longitudinal edge towards which the cream flows when the pad is manipulated, and means extending outwardly from the upper longitudinal edge of the pad for manually operating the same.

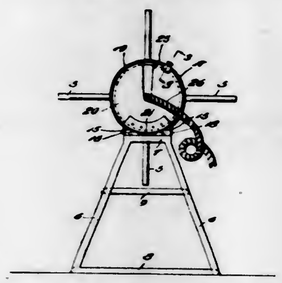
**2,390,922**
**PROJECTOR UTILITY CASE**
**Arnold Bert Coleman, Chicago, Ill.**
**Application December 7, 1943, Serial No. 513,282**
**1 Claim. (Cl. 177—311)**



In apparatus of the class described, a box having sides and a double-walled top forming an upper space in the box opening onto one side of said box, electrical plug-in receptacles set into said side of the box adjacent to the bottom thereof including an input receptacle and a plurality of output receptacles, switches set into said space at said side of the box, and a tell-tale light in said space in the center of the top visible through the top of the box, one of said switches and the tell-tale light being connected in circuit with the input receptacle, the plurality of output receptacles being each connected across the input receptacle, the other switches being each connected in series with one of the output receptacles.

---

**2,390,923**
**MACHINE FOR UNTWISTING ROPE AND THE LIKE**
**Gustave J. Cormier, Jr., San Antonio, Tex.**
**Application January 15, 1945, Serial No. 572,900**
**3 Claims. (Cl. 57—1)**

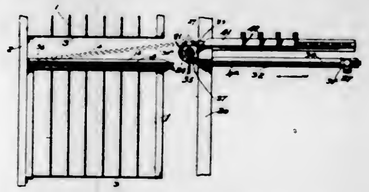


1. In a machine for taking the twist out of rope, a base, a hollow cylinder rotatably mounted on said base, means to attach one end of the rope to one end of the cylinder in the axis of the same and to extend therein, and manipulative means to rotate the cylinder, the first-mentioned means comprising a closure disc for said end of the cylinder having a radial slot therein into which the rope may be wedged.

---

**2,390,924**
**TRANSFER MECHANISM**
**Fay D. Cornell, San Gabriel, and Edwin Jacobsen, Altadena, Calif.; said Jacobsen assignor to said Cornell**
**Application February 1, 1943, Serial No. 474,292**
**21 Claims. (Cl. 119—21)**

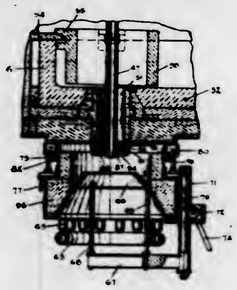
1. The combination with a moving framework, of receptacles carried therein, a carriage adjacent thereto, reciprocable parallel with the movement thereof, endless conveyors mounted on said carriage for movement perpendicular to the movement of the carriage, and means movable with said conveyors for withdrawing the receptacles from the framework and replacing them by other



receptacles while the carriage is moving in the direction of movement of the framework.

---

**2,390,925**
**GLASSWARE-FORMING APPARATUS**
**Edward Danner, Newark, Ohio**
**Application February 24, 1941, Serial No. 380,178**
**18 Claims. (Cl. 49—17.1)**



2. A glass-shaping element for use in apparatus for forming tubular glassware comprising a plurality of members positioned one within another and having their lower ends terminating substantially in a plane, said members having inter-engaging supporting means and providing a plurality of spaced coaxial openings at the point of discharge from the glass-shaping element through which the molten glass may pass to form the ware.

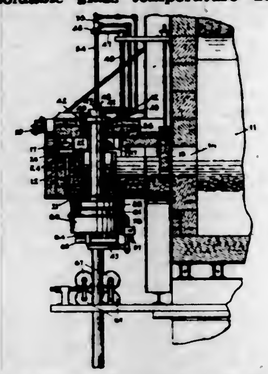
---

**2,390,926**
**HOLLOW GLASSWARE-FORMING APPARATUS**
**Edward Danner, Newark, Ohio**
**Application February 24, 1941, Serial No. 380,180**
**23 Claims. (Cl. 49—17.1)**

1. In a reinforced glassware forming apparatus, a container for holding a supply of molten glass and having an outlet, a hollow refractory body located in the container and having openings in its ends for directing a reinforcing material into the molten glass below one of the openings, a glass shaping element located adjacent the outlet for converting the glass flow to ware form, a surface smoothing and sizing member, a hollow member extending through the refractory body for supporting the surface sizing member below the glass shaping element and spaced therefrom and within the shaped glass and in surface contacting relation with the interior surface of the



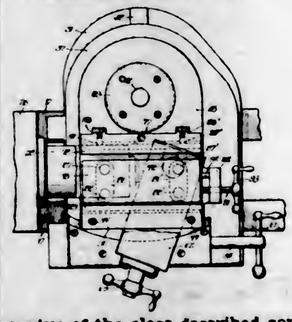
shaped glass, and means for chilling the glass to a non-moldable glass temperature during the



movement of the glass over the contacting surface of the sizing member.

---

**2,390,927**
**APPARATUS FOR CUTTING CURVED SURFACES**
**Howard Q. Day, Chicago, Ill., assignor by direct and mesne assignments, of one-half to himself and one-half to Olive F. Day, both of Chicago, Ill.**
**Application August 1, 1942, Serial No. 453,256**
**5 Claims. (Cl. 77—3)**

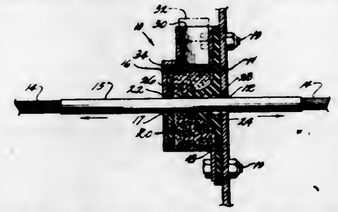


1. Apparatus of the class described comprising means for rotating the work, a base member, a swing plate pivotally mounted on said base member for swinging movement, feeding means for causing swinging movement of said swing plate, a second swing plate, a pair of parallel links pivotally connecting said second swing plate with said first swing plate, second feeding means for causing said second swing plate to swing relatively to said first swing plate, and a tool carried by said second swing plate adapted to engage the work.

---

**2,390,928**
**SEALING GLAND**
**Bruce K. Del Mar, West Los Angeles, and Edward E. Van Dyke, Van Nuys, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.**
**Application October 27, 1942, Serial No. 463,564**
**9 Claims. (Cl. 286—16)**

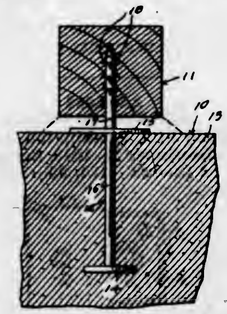
1. A radially yieldable sealing structure for apertures provided for the passage of control elements through the wall of an enclosed space maintained at superatmospheric pressure, comprising: a casing having an opening at one side; a gasket of flexible material positioned between said open side of the casing and a wall of said enclosed space having an aperture therein, said gasket having a thickened portion provided with a bore aligned with said aperture in the wall, and projecting into said casing, annular corrugations being provided in the wall of the bore acting to scrape off and retain lubricant, the number of corrugations engaged with the surface of the control element increasing with increase of pressure differential between the pressure in the enclosed space and the ambient pressure; means for securing said casing and gasket to said wall around the aperture therein, the wall of said casing being provided with an aperture opposite said aperture



in the wall of the enclosed space; a wiper element arranged against the inside of the apertured wall of the casing having an opening aligned with said aperture, a control cable having a cylindrical sleeve swaged thereto extending from the enclosed space through said sealing structure and wall and having a loose fit in the apertures in the wall of said casing and said wall of the enclosed space, but having a close sliding fit in the opening in said wiper element and in the bore of said gasket; deformable lubricant retaining material packed in the vacant spaces of said casing; and a lubricant receiving port communicating with said lubricant retaining material, the seal construction acting to prevent loss of pressure from said enclosed space while permitting longitudinal movement of the element and radial play necessary to permit proper functioning of the element.

---

**2,390,929**
**GROUND GRIP**
**Charles Lyman Ellis, Brownsville, Tex.**
**Application April 4, 1945, Serial No. 586,582**
**4 Claims. (Cl. 72—105)**

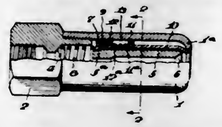


1. An anchor for securing a part to a concrete structure, comprising an anchoring member

adapted to be embedded in the concrete, a plate carried by the outer end of said member and adapted to engage the outer surface of the concrete to limit the extension of said member into the concrete, a point extending from the outer end of said member, and inwardly directed barbs carried by said point.

---

**2,390,930**
**LUBRICATING COUPLER**
**Leonard E. Fankhouser and Edwin H. Glotfelty, Pittsburgh, Pa., assignors to Industrial Machine and Supply Co., Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 11, 1944, Serial No. 535,190**
**4 Claims. (Cl. 285—169)**



1. A lubricating coupler comprising a tubular member contracted at one end, a plunger, a packing element fixedly carried thereby and making sealing engagement with the interior of said tubular member, said plunger and packing element together constituting a piston movable in said tubular member, the end of said plunger adjacent said contracted end of said tubular member having a seat to receive a headed fitting, freely movable gripping jaws surrounding said plunger adjacent said seat, an annulus slidably mounted on said plunger, against which annulus said jaws abut, a compression spring exerting thrust between said annulus and packing element, and a spring for moving said piston in one direction.

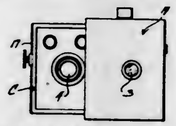
---

**2,390,931**
**WELL LOGGING METHOD**
**Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware**
**No Drawing. Application January 6, 1941, Serial No. 373,379**
**6 Claims. (Cl. 250—83.6)**

1. Method of geophysical exploration which comprises dissolving in the well drilling liquid a compound of sodium possessing artificial radioactivity produced by activation with alpha rays, whereby quantities of the dissolved material are retained by subsurface strata traversed by the well, removing the said liquid not thus retained, and subsequentlly logging the well to obtain measurements of subterranean radioactivity correlated with measurements of depth.

---

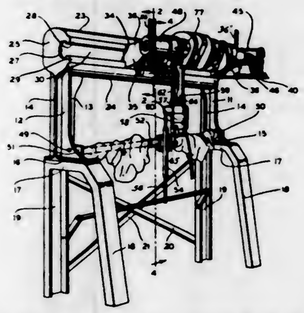
**2,390,932**
**CASE FOR CAMERAS**
**Henry Fitz, Washington, D. C.**
**Application December 21, 1940, Serial No. 371,191**
**2 Claims. (Cl. 95—11)**



1. A case for slidably receiving a camera as a unit free of connection with said case, said case having one wall provided with a lens projecting its rays inwardly of the case, said lens being closely matched with the lens of the camera to be housed within the case, and a focusing screen carried by and within the case, said screen being so mounted and positioned to have the lens of the case project thereon, when the camera has been withdrawn from the case, an image substantially duplicate as to location and as to all of its detail of the image recorded on the light sensitive element of the camera at the instant the lens of the camera is opened, the mounting of the screen within the case providing means to allow the screen to move into a position to permit the camera to be housed within the case without hindrance by the screen, a second wall of the case having an opening to allow the user to observe the image on the screen.

---

**2,390,933**
**CRANKSHAFT SUPPORT AND GRINDER**
**Elmer A. Fuglie, Winona, Minn., assignor to Winona Tool Mfg. Company, Winona, Minn., a corporation of Minnesota**
**Continuation of application Serial No. 405,258, August 2, 1941. This application August 23, 1943, Serial No. 499,729**
**6 Claims. (Cl. 51—129)**



1. A crankshaft grinder, comprising a frame formed with end standards and an enlarged tube-like head piece, an open slot extending along a side of said head piece, bracket members adjustably mounted in said slot upon said head piece to extend laterally therefrom, chuck shafts mounted in said bracket piece and adapted to hold a crankshaft in a position overlying an open space extending between the crankshaft and the floor, means having operative connection with said chuck shafts for rotating them and the crankshaft held therebetween, a stabilizer shaft supported by the standards and extending across said space, and a grinder and means for rotating the grinder while held upon the crankshaft and said stabilizer shaft for grinding the crankshaft.

---

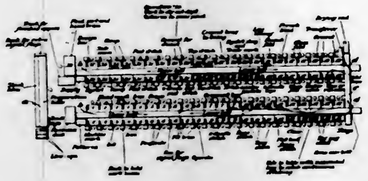
**2,390,934**
**METHOD OF SEPARATING BUTADIENE AND BUTYLENE FROM HYDROCARBON MIXTURES**
**Charles L. Gregg, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application March 3, 1941, Serial No. 381,544**
**5 Claims. (Cl. 202—42)**

1. In a continuous method for separating butylene and butadiene from a hydrocarbon mixture comprising the same, the steps which consist in fractionally distilling the hydrocarbon mixture in the presence of sulphur dioxide at a temperature below 70° C. to distill off a mixture comprising sulphur dioxide and butylene and thus obtain substantial separation of the butylene from the butadiene, continuously returning a portion of the distillate for purpose of reflux, withdrawing butadiene from a lower portion of the distilling column, and during said operations feeding sulphur dioxide and the hydrocarbon mixture to the distilling system, the sulphur dioxide being present during the distillation in amount sufficient to permit the distillation to be carried out with control of the distilling temperature.



---

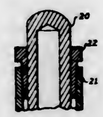
**2,390,935**
**CONVEYER SYSTEM**
**Norval B. Griffin and Claude H. Brechner, Portsmouth, Ohio, assignors to The Selby Shoe Company, Portsmouth, Ohio, a corporation of Ohio**
**Application May 14, 1941, Serial No. 393,423**
**1 Claim. (Cl. 12—142)**



The process of manufacturing shoe uppers, comprising the steps of; preparing and collecting the parts making up the uppers; delivering the assembled parts to the first operator indicated on a work sheet initially assembled with the collected parts; indicating by means applied to the collected parts the next station to which they are to be despatched; and finally shuttling the collected parts back and forth between stations, as indicated on the work sheet, by means of conveyer belts travelling in a U path and including reverse runs for delivery of the parts in either direction.

---

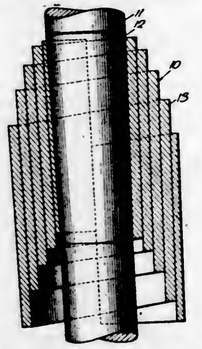
**2,390,936**
**ELECTRODE HOLDER**
**Preston M. Hall, Worcester, Mass.**
**Application February 29, 1944, Serial No. 524,410**
**4 Claims. (Cl. 219—4)**



4. In the art of electric welding, the combination of an externally tapered bushing split at its smaller end so as to be compressible about an electrode, an annular flange at the larger end of the bushing, a holder having a flaring recess shaped to admit and compress the smaller end of the bushing but too small for the larger portion so that the flange is spaced from the adjacent end of the holder to admit a pry between them.

---

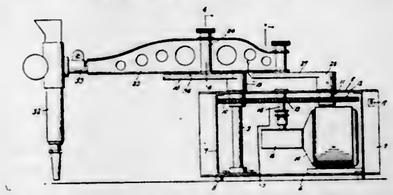
**2,390,937**
**METHOD OF MANUFACTURING VOLUTE SPRINGS**
**Cyrus J. Holland, Chicago, Ill., assignor to Holland Company, a corporation of Illinois**
**Original application December 10, 1940, Serial No. 369,456. Divided and this application July 22, 1942, Serial No. 451,843**
**1 Claim. (Cl. 29—173)**



A method of manufacturing volute springs which comprises heating a substantially straight metallic bar of uniform thickness throughout its active length to a temperature high enough to provide ready coiling of the spring but low enough to avoid undesirable grain growth, winding the bar spirally about a tapered mandrel with the innermost turn in flat contact with said mandrel throughout its width to produce a tapered turn, and winding each succeeding turn in flat contact with the preceding turn and with the pitch of the turns of the volute increasing as the diameter of the turns increase, then heat treating the spring to give it desirable metallurgical properties, the taper of the turns being materially greater than stripping taper and large enough to compensate by wedging action of the turns for slight uncoiling of the spring during its fabrication and heat treatment, thereby to provide substantial frictional resistance between adjacent turns during some portion of the spring travel, said taper also being small enough so that the spring may bottom with heavy loads with all turns in lateral alignment and yet freely release when such load is reduced, said taper converging toward the turns of the largest diameter.

---

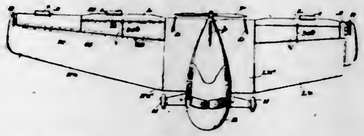
**2,390,938**
**CIRCLE CUTTING TOOL**
**William F. Hubbell, Biloxi, Miss.**
**Application May 22, 1943, Serial No. 488,081**
**2 Claims. (Cl. 33—27)**



1. A readily portable circle cutting machine including a supporting base having spaced upper and lower plates and adapted to solidly rest on a

flat surface, spaced vertical shafts journaled in said upper plate at permanently fixed points and projecting upwardly therefrom, gears on said shafts directly beneath the upper plate, a motor mounted in the base upon the lower plate, means operatively connecting said motor to said shafts for driving them at similar speeds in the same direction and including a gear driven by the motor and arranged between and meshing with the first-named gears, flat horizontal arms fixed on the upper ends of said shafts, a horizontal I-beam connecting rod having an end portion flatly resting on said arms and provided with spaced vertical bearings at permanently fixed points, vertical bolts journaled in said bearings, said bolts being carried by and adjustable longitudinally of said arms to correspondingly adjust the connecting rod relative to said shafts, the other end portion of said connecting rod projecting outwardly beyond one side of the base, and means on the outer end of said connecting rod to support a cutting torch in an upright position with its tip in proximity to the surface on which the base is placed, whereby the machine may be placed on a sheet from which the circle is to be cut.

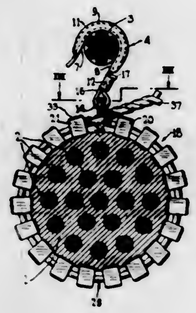
**2,390,939**
**AIRPLANE**
**Thomas H. Huff, Merion, Pa.**
**Application August 13, 1938, Serial No. 224,784**
**44 Claims. (Cl. 244—13)**



1. An airplane of the truly tailless type embodying an inherently longitudinally stable wing having a substantial positive value $C_{mo}$ at zero (0) lift, a longitudinal control for the airplane including a longitudinal control surface mounted for displacement between neutral and control positions relative to said wing, control mechanism for displacing said longitudinal control surface, a lateral control for the airplane including a roll control surface independent of said longitudinal control surface and being mounted for displacement between neutral and control positions for establishing rolling moments on the airplane, the center of gravity of the airplane being located forward of the average fifty percent (50%) chord station of the maximum chord of the wing, said wing being without substantial sweepback whereby said longitudinal control surface when displaced to control positions establishes substantial pitching moments on the airplane, a movable surface mounted for displacement to positions developing a lift acting to substantially neutralize the adverse lift developed by said longitudinal control surface in control positions thereof, respectively, and mechanism for displacing said lift neutralizing surface.

**2,390,940**
**CABLING STRAP**
**Samuel P. Hull, Yonkers, N. Y., John J. Corcoran, Cleveland, Ohio, and Beverly A. Lundy, Larchmont, N. Y.; said Lundy assignor to Railroad Accessories Corporation, New York, N. Y., a corporation of New York**
**Application December 3, 1942, Serial No. 467,740**
**7 Claims. (Cl. 248—61)**

1. A cabling device, including, in combination: a stringing wire formed with serrations; a plurality of beads, spaced apart, formed of insulating material formed in place on said wire each bead formed with two spaced through orifices, one on each side of the stringing wire and adapted to receive an attaching wire; an attaching wire bent with its ends parallel and positioned, one end in one orifice of each block and the other end in



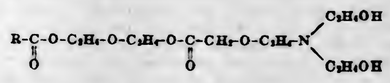
the other orifice of each block, said wire formed into a loop at its median portion, said loop providing bulging ends whereby the said members may be wrapped about a cable and the free ends of the attaching wire may be passed one on one side of the one bulge of the loop and the other on the remote side of the other bulge of the loop and be twisted together.

**2,390,941**
**METHODS AND COMPOSITIONS FOR KILLING WEEDS**
**Franklin D. Jones, Upper Darby, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware**
**No Drawing. Application May 4, 1945, Serial No. 592,069. In Canada June 2, 1944**
**27 Claims. (Cl. 167—45)**

1. A method for killing weeds in an active state of growth, which consists in applying to the weeds a substance selected from the group consisting of halogenated phenoxy monocarboxylic acids, their salts and esters, in a concentration of at least .1% by weight.

**2,390,942**
**ETHERS OF ALCOHOL AMINES**
**Morris Katzman and Albert K. Epstein, Chicago, Ill., assignors to The Emulsol Corporation, Chicago, Ill.**
**No Drawing. Application October 13, 1941, Serial No. 414,776**
**9 Claims. (Cl. 260—404)**

8. An ether compound corresponding to the formula



where R is an alkyl radical containing at least 7 carbon atoms.



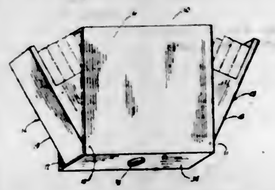
**2,390,943**
**COMPOUNDED HYDROCARBON OIL**
**Frank W. Kavanagh, Bruce R. Farrington, and James O. Clayton, Berkeley, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application March 15, 1943, Serial No. 479,260**
**12 Claims. (Cl. 252—42.7)**

1. A lubricant comprising a major proportion of a hydrocarbon lubricating oil and a small amount each, sufficient to stabilize the oil against heat and oxidation, of a metal salt of a phenol and an oxidation inhibitor containing a benzene nucleus to which are directly attached at least two substituents selected from the group consisting of amino radicals and oxy radicals.

**2,390,944**
**PREPARATION OF LITHOGRAPHIC PLATES**
**Charles F. King, Cincinnati, Ohio, assignor to The Lithographic Technical Foundation, Inc., New York, N. Y., a corporation of Delaware**
**No Drawing. Application February 11, 1944, Serial No. 522,025**
**7 Claims. (Cl. 101—149.2)**

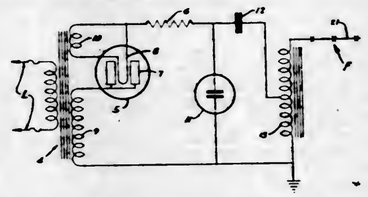
1. The method of preparing a lithographic plate, which comprises the steps of removing deep-etching solution from the plate after it has been etched, drying the plate until it is substantially free of water and then effecting final removal of water from the etched areas of the plate by applying thereto a film forming lacquer containing a substantial portion of an anhydrous organic solvent which foms a negative azeotropic mixture with water residing on the plate, and effecting removal of the water from the lacquer by evaporation of the azeotropic mixture.

**2,390,945**
**DISPENSING CONTAINER**
**Benjamin W. Kleinberg, New York, N. Y., assignor, by mesne assignments, to Guenther A. Frank, doing business as Lapelle Co., New York, N. Y.**
**Application April 4, 1944, Serial No. 529,537**
**3 Claims. (Cl. 206—41.1)**



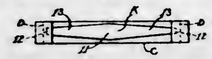
1. A dispensing container comprising a casing having two oppositely disposed openings therein, two compartment members disposed within the casing adjacent said openings, each of said members being pivotally mounted on at least one side wall of the casing at a point in the region of the adjacent opening and near the base of the member a flexible button connecting the lower portions of said members, the casing including a wall with an aperture therein adapted to receive said button therein when the compartment members are in their retracted positions, whereby entry may be made through said aperture to engage said button and actuate said members outwardly to predetermined projected positions.

**2,390,946**
**ELECTRONIC FENCE CIRCUIT CONTROL**
**Richard F. Kneisley and Frank S. Hawley, Toledo, Ohio, assignors to Kneisley Electric Company, Toledo, Ohio**
**Application September 10, 1943, Serial No. 501,904**
**2 Claims. (Cl. 256—10)**



1. In a control for producing electrical impulses in an output circuit adapted to be connected to an alternating current input circuit, said input circuit connected to a transformer; a rectifying tube; a low voltage winding of said transformer connected to the filament of said tube; another winding of said transformer connected between the plate elements of said tube and ground; a current limiting resistance connected to said rectifying tube filament; a relatively low resistance rapid discharge cold gas-filled cathode tube, the negative electrode of which is connected to ground; a condenser, the positive electrode of said discharge tube being connected to one side of said condenser, said resistance connected to said condenser and said discharge tube and the value of the current limiting resistance being proportionate to the capacity of said condenser; a second transformer constituting an inductance the primary of which has a low value of reactance to facilitate rapid discharge of said tube, the other terminal of said condenser being connected to an intermediate terminal on said second transformer, one of the terminals of the transformer being connected to ground and the other terminal adapted to be connected to a wire of a fence.

**2,390,947**
**COMPENSATING THERMOSTAT**
**Ludvik J. Keel, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois**
**Original application April 1, 1940, Serial No. 327,255. Divided and this application October 25, 1943, Serial No. 507,530**
**2 Claims. (Cl. 297—15)**



1. A thermostatic device for indicating or controlling the temperature of a primary medium and for compensating for the effect of variations in temperature of an uncontrolled second medium, comprising a non-reversed, non-reentrant strip of thermostatic material, the strip diminishing in width from its central portion toward each terminal end whereby each end portion of the strip is of decreasing graduated rigidity, means supporting each terminal end of the strip against both angular motion and motion in a direction normal to its length, the entire length of the strip intermediate the supported terminal ends being responsive to temperature changes throughout said length, said central portion being primarily responsive to the surrounding medium and thereby responding in a thermostatic action

in one direction normal to the length of the strip, said end portions of diminishing width being primarily responsive to the temperature of said supporting means and thereby responding in a thermostatic action opposite in direction from that of the first described thermostatic action, the thermostatic strip responding at its central portion in a net effective thermostatic action which is the vector sum of the first and second described thermostatic actions and thus in the direction of that described thermostatic action which predominates, the described angular restraint being imposed directly by said terminal ends and directly through said end portions of decreasing width, whereby to obtain a main response to the absolute temperature of said primary medium surrounding the middle portion of the strip and to compensate for variations in temperature of the supporting means due to variations in temperature of said uncontrolled second medium.

---

**2,390,948**
**COMPENSATING THERMOSTAT**
**Ludvik J. Koci, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois**
**Application October 25, 1943, Serial No. 507,531**
**3 Claims. (Cl. 297—15)**

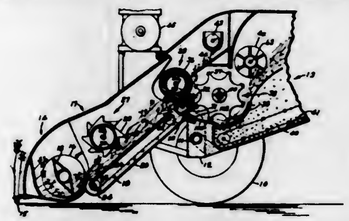


1. A thermostatic device for indicating or controlling the temperature of a primary medium and for compensating for the effect of variations in temperature of an uncontrolled second medium, comprising a non-reversed, non-reentrant strip of thermostatic material, the strip diminishing in width from its terminal ends to a point medially between the ends whereby to provide opposite main portions each of decreasing graduated rigidity, means supporting each terminal end of the strip against both angular motion and motion in a direction normal to its length, the entire length of the strip intermediate the supported terminal ends being responsive to temperature changes throughout said length, said central portion of diminishing width being primarily responsive to the surrounding medium and thereby responding in a thermostatic action in one direction normal to the length of the strip, the end portions of greatest width being primarily responsive to the temperature of said supporting means and thereby responding in a thermostatic action opposite in direction from that of the first described thermostatic action, the thermostatic strip responding at its central portion in a net effective thermostatic action which is the vector sum of the first and second described thermostatic actions and thus in the direction of that described thermostatic action which predominates, whereby to obtain a main response to the temperature of the support at the ends of the strip and to compensate for the effect of variations in temperature of the medium surrounding the middle portion of the strip.

---

**2,390,949**
**FEEDING MECHANISM**
**Norman R. Krause and Sherman C. Heth, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation**
**Application April 28, 1942, Serial No. 440,874**
**3 Claims. (Cl. 130—13)**

1. In a feeding mechanism for flax and the like, the combination of an endless conveyor, a star wheel beater above said endless conveyor, and so positioned relatively thereto as to loosen and untangle material traveling on said endless conveyor, a smooth surfaced hard pressure roller in position to receive material from said endless conveyor, and a second pressure roller having a comparatively soft yielding surface, pressed



against the first mentioned roller, so as to form a bite substantially in line with said endless conveyor, a threshing cylinder, and said bite being positioned to receive material directly from said endless conveyor, and to hold said material and advance it into position to be flailed by said cylinder while held by said pressure rollers.

---

**2,390,950**
**TAP**
**Frederick Alexander Lanfranconi, Surbiton, England**
**Application November 2, 1943, Serial No. 508,762**
**In Great Britain November 17, 1942**
**2 Claims. (Cl. 10—141)**



1. A cutting tool adapted to cut through application of torsion, comprising a body having cutting means thereon, and a cylindrical shank cut to form a head having flat torsion receiving faces disposed in triangular relation with intervening curved truncations at the angles, said truncations being of equal arc and forming uninterrupted continuations of the exterior surface of the shank.

---

**2,390,951**
**PRODUCTION OF ISOBUTYLENE**
**Leonard N. Leum, Upper Darby, and Frank G. Ciapetta, Yeadon, Pa., assignors to The Atlantic Refining Company, Philadephia, Pa., a corporation of Pennsylvania**
**No Drawing. Application October 7, 1942, Serial No. 461,236**
**3 Claims. (Cl. 260—683)**

1. The method of producing a gas containing isobutylene in high concentration from polymer liquid consisting predominantly of isobutylene-butene codimers, which comprises contacting the polymer liquid with an argillaceous catalyst at a temperature between 600° F. and 800° F., and separating the resulting gas containing a high concentration of isobutylene from the unconverted polymer liquid.



**2,390,952**
**PARASOL**
**Benjamin B. Levine, Pittsburgh, Pa.**
**Application May 15, 1943, Serial No. 487,124**
**1 Claim. (Cl. 224—5.1)**



A parasol comprising a center post; a plurality of ribs pivoted at their ends adjacent the top of the center post and extending radially therefrom; a fabric covering over the ribs; an elevating ring slidably movable on the center post, means for retaining said ring at a predetermined fixed position on the center post; elevator arms pivoted on the center ring and pivotally secured to the ribs at points intermediate the ends of the ribs; a pliable tape to serve as a head-hand adapted to be worn on the head of the wearer; and a plurality of arms pivotally anchored at one end on the head-band, and pivotally anchored at the other end on the elevating ring.

---

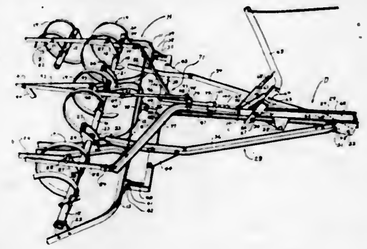
**2,390,953**
**ALKYLATION OF AROMATIC HYDROCARBONS**
**Sydney Mann, Narberth, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania**
**No Drawing. Application July 30, 1942, Serial No. 452,968**
**6 Claims. (Cl. 260—671)**

1. In the method of alkylating an aromatic hydrocarbon with an olefin in the presence of a phosphoric acid catalyst at an alkylating temperature such that the catalyst tends to become dehydrated, the improvement which comprises adding to the hydrocarbon reactants a lower aliphatic alcohol capable of reacting to alkylate the aromatic hydrocarbon and in such quantity as to maintain the partial pressure of the water vapor resulting from the alkylation reaction at 40% to 60% of the vapor pressure of the phosphoric acid catalyst at the alkylating temperature.

---

**2,390,954**
**HARROW**
**John M. Markel, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation**
**Application May 5, 1943, Serial No. 485,752**
**13 Claims. (Cl. 55—104)**

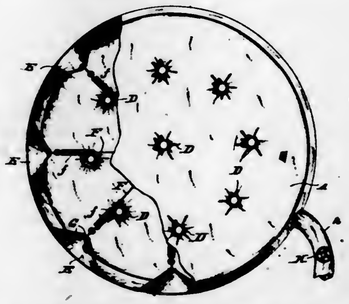
1. In a harrow a runner frame, a plurality of cross pipes, rockably supported on the frame, spring teeth fixed with the cross pipes so as to be lifted relatively to the runner frame by rocking of the cross pipes, actuating arms on the cross pipes, a lifting connection to the actuating arms, a drawbar having a portion connected with said runner frame and a relatively movable portion, said lifting connection being connected at one end to said movable portion, swinging links connecting the first and second mentioned portions of said draw bar, a latch on one portion of the draw bar and disposed to engage the other portion upon extreme rearward movement of said movable portion, a stop on said movable portion engaging said lifting connection upon forward movement of said movable portion to actuate said lifting connection to rock said cross pipes to move said harrow teeth to transport position, and a second stop on said movable por-



tion, spaced from the first mentioned stop and adjustable in position to engage said lifting connection upon rearward movement of said movable draw bar portion to force said teeth into working position, more or less according to the position of said adjustable stop.

---

**2,390,955**
**FIRE ESCAPE**
**Arthur E. McDonnell, Memphis, Tenn.**
**Application February 15, 1945, Serial No. 578,053**
**3 Claims. (Cl. 227—42)**



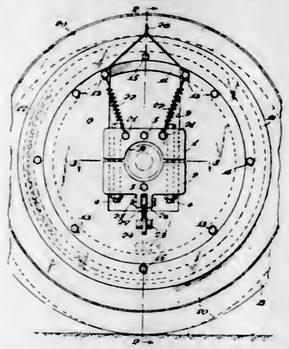
1. A landing platform comprising an inflatable bag formed of a pair of end walls and a cylindrical intermediate wall, the end walls being formed with opposite arranged openings, tubular members having their opposite ends connected to the end walls adjacent said openings, a plurality of flexible fabric sections attached to said intermediate wall, and a plurality of resilient connectors fixed to opposite points of the fabric sections.

---

**2,390,956**
**ANTISKID DEVICE**
**Roscoe C. McNeer, Richmond, Va.**
**Application June 24, 1944, Serial No. 541,916**
**8 Claims. (Cl. 188—5)**

1. The combination with a vehicle having an axle and the usual brake drum backing plate secured thereto, of a block surrounding said axle, bolts passing through said block and engaging threaded openings in said backing plate, a circular frame mounted on said block for vertical

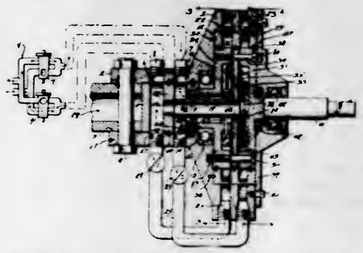
sliding movement transversely of said axle, and an annular blade journalled on said frame and



adapted to engage the roadway when said frame is moved downwardly.

---

**2,390,957**
**HYDRAULIC POWER UNIT**
**Arthur G. Mellinger, Lancaster, Pa.**
**Application October 28, 1942, Serial No. 463,668**
**10 Claims. (Cl. 121—92)**



7. A power unit, comprising a cylinder, a circular rotor fitting in said cylinder, said rotor having a chamber to receive a fluid under pressure and having a fluid passageway leading from the chamber through its periphery, the encircling wall of the cylinder having a circumferentially directed channel therein extending only part way around the cylinder and in the plane of the outlet end of the passageway to receive fluid therefrom, said channel having an exhaust outlet at one end, a radially movable abutment carried by the rotor adjacent the outlet end of the passageway, said abutment being movable across said passageway to close the passageway, the abutment being extensible outwardly into the channel and when so positioned opening the fluid passageway, said fluid passageway through a portion of its extent upon the side of the abutment opposite from the outlet of the passageway being formed as a piston cylinder having a lateral outlet, a piston in said cylinder movable under the action of fluid pressure from the chamber to open said lateral outlet for the establishment of uninterrupted fluid flow through the passage to the outlet end of the passage, and a coupling between the piston and the abutment by which the abutment is urged to move outwardly when the piston is moved in a direction to uncover the lateral port.

10. A power unit, comprising a cylinder, a circular rotor fitting in said cylinder, the rotor encircling wall of the cylinder having a circumferentially directed channel therein extending part way around the cylinder, the channel at one end having an exhaust outlet, the opposite end of the channel having a wall forming an abutment, an abutment vane carried by the rotor for radial movement outwardly into said channel, means for effecting the radial movement of the abutment vane outwardly into the channel, means for introducing fluid into the channel between the abutment vane and the abutment wall, and a fiber strip lying in and covering the bottom surface of the channel from end to end of the channel and against which the outer edge of the abutment vane has sliding contact.

---

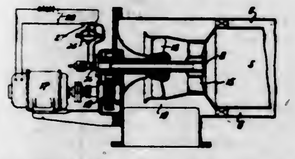
**2,390,858**
**PORTFOLIO**
**Samuel Perlin, New York, N. Y.**
**Application September 11, 1944, Serial No. 553,636**
**2 Claims. (Cl. 281—31)**



1. A portfolio comprising a loose-leaf binder including a back and foldable sides pivotally connected therewith, a flap extending over the outer faces of the back and sides, the flap being secured to the opposite free ends of the sides and to corresponding side edges thereof whereby providing a pocket having a mouth extending throughout the combined length of the sides at the other side edges thereof when the binder is in open position, a pair of "Zipper" tapes secured to the margin of the flap with each tape extending from adjacent the back and around the margin of the flap corresponding to each binder side, and a slider movable from and toward the back for closing and opening the pocket with an attendant closing and opening of the binder.

---

**2,390,959**
**GAS TURBINE POWER PLANT**
**Hans Pfenninger, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boverie & Cie., Baden, Switzerland, a joint-stock company**
**Application January 19, 1942, Serial No. 427,394**
**In Switzerland February 3, 1941**
**2 Claims. (Cl. 60—41)**



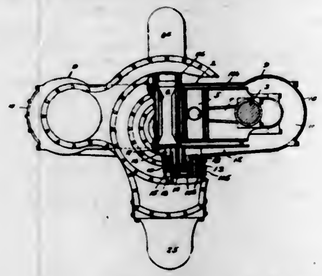
1. In a gas turbine power plant including a combustion chamber with forced air cooling, a gas turbine supplied with motive fluid from said combustion chamber and an air compressor driven by said gas turbine, an air chamber adjacent one end of said combustion chamber to which air is supplied by said compressor and from which both cooling air and combustion air for



said combustion chamber are withdrawn, a burner casing opening at one end into said air chamber and at its other end into said combustion chamber, an auxiliary blower member mounted in said burner casing, and means for driving said auxiliary blower member.

---

**2,390,960**
**INTERNAL-COMBUSTION ENGINE**
**Sidney C. Raybon, Dawson, Ga.**
**Application March 16, 1944, Serial No. 526,755**
**2 Claims. (Cl. 123—51)**



2. An internal combustion engine including a cylinder block providing parallel cylinders open at their ends, crank-shafts extending across the respective ends of the cylinders and rotatable about parallel axes, opposed pistons in each of the cylinders operatively connected to the respective crank-shafts and providing a combustion chamber therebetween having intake and exhaust ports, normally closed intake valves, normally closed exhaust valves, opposed cam shafts, cams on one of the shafts in direct engagement with and adapted to actuate the intake valves, cams on the other shafts in direct contact with and positioned to actuate the stems of the exhaust valves, means for transmitting motion between the crank-shafts and the cam shafts, said crank-shafts being rotatable simultaneously in opposite directions and at the same speeds, an oil pan, a plurality of oil reservoirs, means in each reservoir and opening into the oil pan for maintaining oil at a predetermined level in the reservoir, means for directing lubricant into all of the reservoirs, each of said reservoirs having an outlet in communication with one of the exhaust valves, and housings for the crank-shafts constituting oil containers in communication with the last named means.

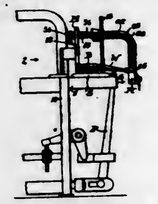
---

**2,390,961**
**POLYMERIZED RUBBERLIKE PRODUCT AND PROCESS OF MAKING THE SAME**
**Donald Sanderson, Bloomfield Hills, and Harry E. Pfaff, Detroit, Mich., and Murray E. Garrison, Compton, Calif.**
**No Drawing. Application July 13, 1943, Serial No. 494,580**
**18 Claims. (Cl. 260—738)**

4. A process comprising the following steps: mixing linseed and cottonseed oils in the proportions not less than 5% of either oil and 95% of the other oil; heating the mixture of oils to approximately 250° F. while stirring, and allowing to cool at least 24 hours, in an atmosphere of low moisture content, to form a jell; adding asphalt having a melting point of about 275° F. and heating to approximately 300° F. and stirring; adding a small percentage of a cyclized rubber and raising the temperature to about 425° F. with concomitant agitation; the agitation being continued until the graining stops and a thin liquid results; allowing the liquid to cool to about 140° F.; stirring in a control component selected from the group consisting of sulphur, litharge, zinc oxide, and carbon black, the total of said stirred-in ingredients not exceeding 40% by weight of the total mixture; gradually raising the temperature of the mixture to a temperature exceeding 275° F. but less than 350° F., with concomitant agitation; and allowing the mixture to cool under low humidity conditions.

---

**2,390,962**
**POSITIVELY ACTUATED THREAD HOLDER FOR LOOMS**
**Elliot A. Santon, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application June 17, 1944, Serial No. 540,777**
**5 Claims. (Cl. 139—247)**



1. In a thread holder for a weft replenishing mechanism having a stack of reserve bobbins and a bobbin releaser which causes the bobbins to descend and thereby slacken their weft ends whenever the releaser is operated, a shaft mounted on the mechanism to operate the releaser and having an oscillating movement incident to each release of a bobbin from the stack, meshing geared elements between which the weft ends extend, and means operated by the shaft during said oscillating movement to turn the geared elements in a direction to draw the weft ends away from the bobbins.

---

**2,390,963**
**SHUTTLE CHECK FOR LOOMS**
**Elliot A. Santon, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application July 1, 1944, Serial No. 543,094**
**7 Claims. (Cl. 139—185)**



1. In a shuttle checking mechanism for a loom having a layend and a shuttle box thereon, a floating binder movable bodily transversely of the shuttle box, a bracket secured to the layend, a stud on the bracket, a coiled spring around the stud having one end thereof fixed with respect to the stud, means on the bracket presenting a friction surface, and a flexible strap having one end thereof connected to said binder and having the other end thereof operatively connected to the

other end of said spring, the latter acting through the strap to hold the binder in shuttle checking position and hold the strap in frictional contact with the friction surface, the binder when moved by the shuttle, being opposed by the strap due to the frictional contact thereof with the friction surface and being opposed also by the spring.

---

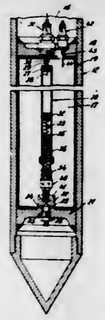
**2,390,964**
**PENKNIFE**
**Ernest Joseph Savoy, Kansas City, Mo.**
**Application April 10, 1944, Serial No. 530,385**
**2 Claims. (Cl. 30—162)**



1. In combination, a blade, a clip-like holder straddling the blade on one side thereof, and a similar sheath straddling said blade on the other side thereof, said holder and sheath each comprising a barrel for housing the adjacent edge of the blade clear of the same, and side wings fitting flat against the blade, the side wings of the holder and sheath being continuous in edge-to-edge relation to completely cover the blade, and a pin extending through both wings of the holder and the blade, the sheath being slidable on the blade along the same independently of the holder.

---

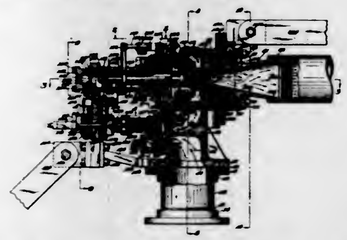
**2,390,965**
**CENTRAL ELECTRODE SUPPORT**
**Serge Alexander Scherbatskoy, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware**
**Application April 20, 1944, Serial No. 531,913**
**5 Claims. (Cl. 250—83.6)**



1. An ionization chamber adapted for use in detecting radioactivity comprising in combination a housing, an ionizable medium in said housing, a pair of cylindrical electrodes disposed in said ionizable medium within the housing, separate means for supporting the electrodes in concentric relationship, means forming electrical connection with said electrodes and extending outside of said housing, said means for supporting the central electrode comprising an element adapted to telescopically fit within the bottom of the central electrode, annular shoulders on said element adapted to slidably engage the inner wall of the electrode and serve as a guide when the element and electrode are moved relative to each other, means for limiting the movement of the element relative to the electrode, resilient means disposed within said central electrode and the telescoping element adapted to exert outward pressure on the telescoping element, and an insulator carried by the bottom end of the telescoping element adapted to support the telescoping member and central electrode resiliently supported thereby, whereby mechanical play imparted to the ionization chamber will be absorbed by the resilient means.

---

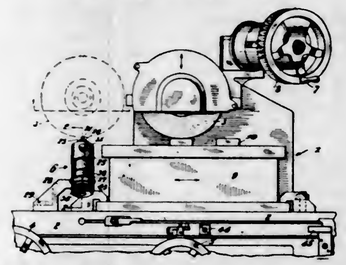
**2,390,966**
**AIR BLAST CIRCUIT BREAKER AND CONTROL THEREFOR**
**William M. Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application December 21, 1940, Serial No. 371,092**
**11 Claims. (Cl. 200—148)**



1. In an electric circuit interrupter for controlling an electric circuit, a stationary contact and a movable contact engageable therewith, a rod having two pistons attached thereto of different effective area, said movable contact being supported thereon, a source of compressed air, means responsive to electrical conditions of said circuit for controlling and directing air from said source against said contacts and one of said pistons having a larger effective area, for simultaneously disengaging said contacts and quenching arcs drawn therebetween; means for directing air to the other of said pistons for causing the engagement of said contacts; and means responsive to the disengagement of said contacts for disconnecting said source from both said pistons.

---

**2,390,967**
**MEANS FOR GRINDING MATERIAL**
**Frank Swenson and Erik Iver Erikson, Weatherly, Pa., assignors to Linotype Parts Company, Weatherly, Pa., a partnership**
**Application January 5, 1942, Serial No. 425,584**
**8 Claims. (Cl. 51—165)**

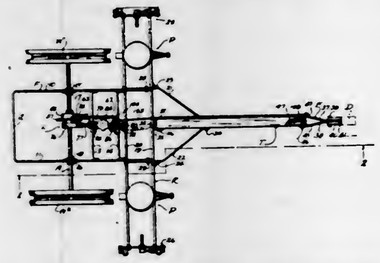


8. In grinding mechanisms, a work table, a grinding wheel above said table and means adapted for changing the height between said table and said wheel, graduations forming part of said means, being adapted to indicate a change in height between said table and said wheel, a dressing device adapted for trimming the abrasive material of said wheel, said device comprising a holder, a sleeve slidable in said holder, and a dressing tool in said sleeve consisting of a shank having a shoulder, adapted for definite location and re-location whenever removed, securing means in said sleeve for said shank adapted to operate in a direction axially to said shank, whereby said shank is bound to always take the exact position it maintained before its removal and screw mechanisms adapted for moving said sleeve in an axial direction, indicating means comprising graduations and forming part of said screw mechanisms, said graduations comprising units of measure identical in character to the graduations of said changing means, the axis of said sleeve being located at an angle oblique to the straight cross-sectional contour-line formed on said wheel's surface during dressing operation, the magnitude of the pitch of the thread of said screw mechanism and the width of the graduations of said screw mechanisms having a definite relation to the angle of said sleeve.



---

**2,390,968**
**POWER LIFT PLANTER**
**Harry R. Traphagen, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation**
**Application March 27, 1943, Serial No. 480,799**
**14 Claims. (Cl. 111—56)**

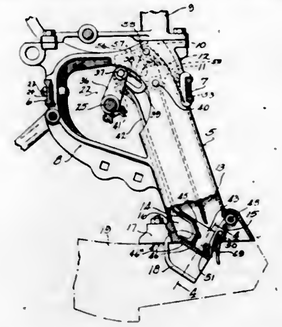


1. In a planter, a wheeled frame including an axle, wheels for supporting the axle and rotating it, a runner frame pivoted to the wheeled frame, a tongue rigid with the runner frame, a power lift on the axle, connections for tilting the wheeled frame from the action of the power lift including a rocker member pivoted on the wheeled frame, a connection from the power lift to the rocker, an extension pivoted on said tongue, a connection from the rocker to the runner frame, and a link connecting said rocker and extension for swinging said extension in response to rocking of said rocker.

---

**2,390,969**
**PLANTER**
**Harry R. Traphagen, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation**
**Application March 27, 1943, Serial No. 480,800**
**15 Claims. (Cl. 111—51)**

1. In a planter, a valve including a seed counting device, a drop tube and a plunger, a check shaft, mechanism for periodically oscillating the check shaft, an arm on the check shaft, a rocker pivotally supported adjacent said drop tube, said arm being engaged with said rocker so as to rotate it in the opposite direction to the rotation of said arm, a supplemental arm on said rocker, a cam unit pivoted adjacent said drop tube and engaged with said arm so as to be rotated in a



direction opposite to the rotation of said rocker by rocking of said rocker, and a seed retaining valve connected to said cam unit and depending from said cam unit to a position spaced down said drop tube substantially from said counting device.

---

**2,390,970**
**METALLURGY**
**Marvin J. Udy, Niagara Falls, N. Y.**
**No Drawing. Application April 20, 1942, Serial No. 439,721**
**1 Claim. (Cl. 75—130.5)**

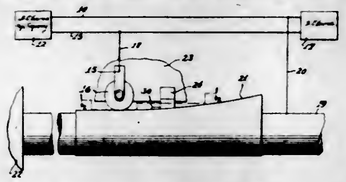
The method of recovering chromium from low grade chromite ore which comprises subjecting a portion of the ore to an oxidizing treatment in the presence of an alkali metal compound to produce alkali metal chromate, treating the product of the oxidizing treatment to separate alkali metal chromate from other material associated therewith, treating the alkali metal chromate to produce an alkali metal compound and chromic oxide in chemical combination with calcium oxide, smelting another portion of the ore to produce high-carbon ferrochromium, incorporating silicon in the ferrochromium to eliminate carbon with the production of ferrochrome silicon, and utilizing the chromic oxide to eliminate silicon from the ferrochrome silicon with the production of a metallic chromium-bearing product in which the ratio of chromium to iron is higher than the ratio of chromium to iron in the chromite ore.

---

**2,390,971**
**WELDING METHOD**
**Alfred Vang, Newark, N. J., assignor to Continental Can Company, Inc., New York, N. Y.**
**Application August 17, 1942, Serial No. 455,077**
**4 Claims. (Cl. 219—10)**

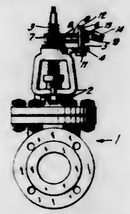
1. A method of welding a lap seam of extremely thin weldable metal sheets, consisting in moving the superimposed thin metal sheets, which are to form the lap seam, in the same direction and at the same speed and at a small acute angle to each other so that the adjacent surfaces of said sheets touch when passing a relatively stationary line, pressing said moving sheets together along said stationary line, inducing a high voltage, high

frequency alternating current to arc in the air gap adjacent said line, and inducing a low voltage high amperage current to flow through said arc for welding said adjacent surfaces at said stationary line.



---

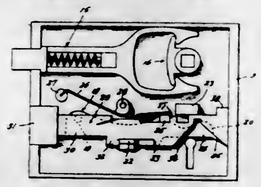
**2,390,972**
**VALVE LOCK**
**Edwin A. Weinberg, Troy, N. Y., assignor to The Ludlow Valve Manufacturing Co., Inc., Troy, N. Y., a corporation of New York**
**Application September 1, 1944, Serial No. 552,323**
**6 Claims. (Cl. 70—180)**



1. In a device of the character described, the combination with a valve, including a body and a stem movable with respect to said body for actuating said valve, of means closely engaging said stem but movable with respect thereto, means for securing said stem and said stem-engaging means together to prevent relative movement thereof, and means for locking said stem-engaging means and said body together to prevent relative movement thereof; said locking means, when locked, preventing access to said securing means.

---

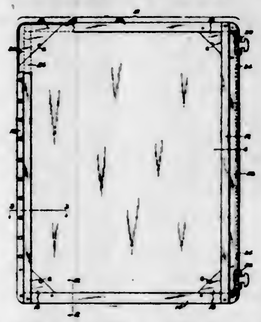
**2,390,973**
**KEY CONTROLLED LOCK**
**Johnie Wells, Jr., Lancer, Ky.**
**Application May 2, 1944, Serial No. 533,737**
**2 Claims. (Cl. 70—355)**



1. In a lock of the class described, a case part provided with integral longitudinally spaced assembling lugs, a tumbler pivoted at one end in said part and arranged between said lugs, one edge portion of the tumbler being notched to coact with one of the lugs, a keyhole slot formed in said case part, the adjacent edge portion of the tumbler being cut away to define a lifting and lowering abutment surface, said tumbler being provided along its upper edge with a lateral integral detent, a pin in said case part, a flat spring anchored thereon, the free end of said spring being engaged with said detent, and a tensioning cam in said case part engageable with the intermediate portion of said spring.

---

**2,390,974**
**PAPER FILING PANEL**
**Roy E. Wells, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y., a corporation of Massachusetts**
**Application February 27, 1943, Serial No. 477,423**
**6 Claims. (Cl. 40—63)**



1. In a paper filing panel, a web having corners cut away obliquely, and a frame about and secured to said web and including gussets disposed in the same plane as said web and occupying spaces left by the cutting away of said corners, said frame having paper-filing channels.

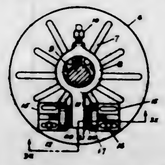
---

**2,390,975**
**METHOD AND COMPOSITION FOR DELUSTERING ARTIFICIAL SILK**
**Jesse Werner, Brooklyn, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application September 26, 1944, Serial No. 555,893**
**10 Claims. (Cl. 106—287)**

1. A composition for matting or delustering artificial silk comprising a pigment and a water-insoluble free biguanide base containing an alkyl chain of at least 10 carbon atoms.

---

**2,390,976**
**VIBRATION ABSORPTION DRIVING DEVICE FOR MACHINE DOGS**
**John C. Wilcox, Erie, Pa.**
**Application February 26, 1945, Serial No. 579,855**
**1 Claim. (Cl. 82—41)**

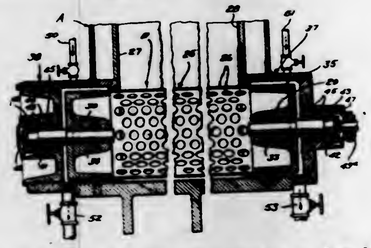


A driver connection between the face plate of a lathe, or similar machine, and the dog on a work piece mounted on the latter, comprising a bracket attached to the face plate, and a demountable member on the bracket, a pad of rubber like material on said member and an overlying covering plate on the rubber, said assembly being mounted on the bracket in a position to engage the dog and during operation of the machine serving to absorb inherent vibrations created therein.

---



**2,390,977**
**EVENING ROLL FOR FLOW BOXES**
**Herman J. Williams, Charleston, S. C., assignor to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware**
**Application April 16, 1941, Serial No. 388,737**
**1 Claim. (Cl. 92—44)**

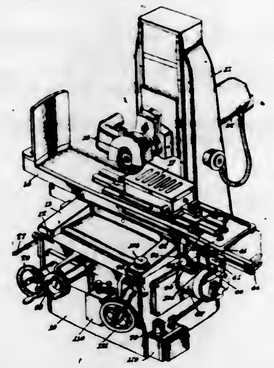


In a Fourdrinier machine having a flow box, a slice therein defining an opening for the outflow of stock from said box and regulating the flow thereof upon the Fourdrinier wire disposed beneath the box, and a stock flow evening roll disposed rearward of said slice and toward the bottom of said box beneath the normal liquid level therein, the improvement which comprises in combination a perforated flow evening roll longer than the width of said box, such roll having the perforations thereof disposed substantially uniformly over a length of the roll opposite said opening and at least equal to the length of said opening, each end of said roll terminating in a bearing portion of restricted diameter, bearing proper for said bearing portions, each of said bearings proper comprising a housing enclosing an end of the roll but without affording a bearing surface therefor, and means for preventing accumulation of fiber within said housings including means for supplying liquid thereto at a pressure slightly greater than the hydrostatic pressure within said box.

---

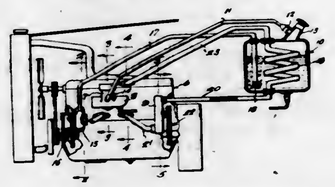
**2,390,978**
**GRINDING MACHINE**
**Stephen E. Woodbury, Beverly, Mass., assignor to Reid Brothers Company, Inc., Beverly, Mass., a corporation of Massachusetts**
**Application August 26, 1943, Serial No. 500,078**
**13 Claims. (Cl. 51—92)**

1. A surface grinding machine having a grinding wheel and a work table movable longitudinally back and forth and transversely with respect to the wheel, means on the work table for determining the points of reversal in its longitudinal movement, a cross feed electric motor, means for directing an operating current to said motor for starting it, and mechanism thereupon operated by said motor for imparting a transverse feeding step to the table in anticipation of and before its reversal and for stopping said motor at the conclusion of each cross feeding step.



---

**2,390,979**
**AUXILIARY FUEL SUPPLY FOR INTERNAL-COMBUSTION ENGINES**
**Clint Young, East St. Louis, Ill.**
**Application November 17, 1944, Serial No. 563,862**
**3 Claims. (Cl. 123—122)**

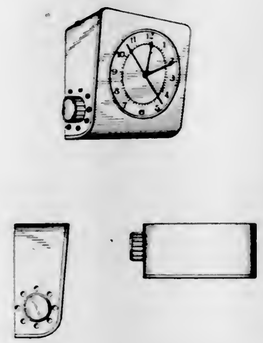


1. In a structure of the class described, in combination, an internal combustion engine including a carbureter, an intake manifold, a gasoline storage tank, a suction pipe connection between the top of the gasoline tank and the intake manifold, a heating coil mounted in said tank to increase the temperature of the gasoline, and means for supplying air under pressure into the gasoline, in the manner and for the purposes described.

# DESIGNS

DECEMBER 11, 1945

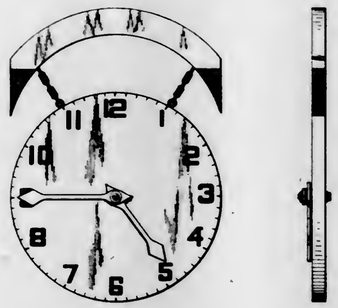
**143,106**
**DESIGN FOR A COMBINED CLOCK AND DOOR CHIME**
**Nathan Abramson, New York, N. Y., assignor to Presto Electric Co., Union City, N. J., a partnership**
**Application October 6, 1944, Serial No. 115,647**
**Term of patent 7 years**
**(Cl. D42—7)**



The ornamental design for a combined clock and door chime, as shown and described.

---

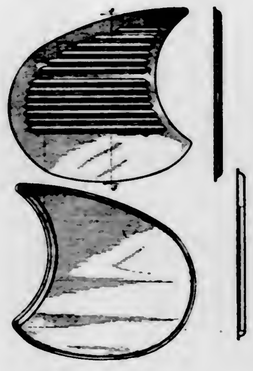
**143,107**
**DESIGN FOR A TIME INDICATOR OR THE LIKE**
**Emory W. Adams, Oakland, Md.**
**Application July 3, 1945, Serial No. 120,486**
**Term of patent 3½ years**
**(Cl. D42—7)**



The ornamental design for a time indicator or the like, as shown and described.



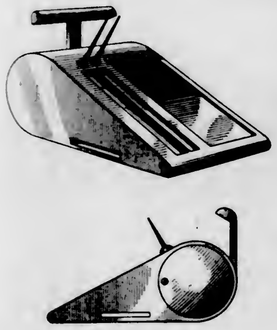
**143,108**
**DESIGN FOR A GAUGE PLATE FOR SLICING MACHINES**
**Arthur H. Ahrndt, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana**
**Application March 24, 1945, Serial No. 118,680**
**Term of patent 14 years**
**(Cl. D55—1)**



The ornamental design for a gauge plate for slicing machines, as shown.

---

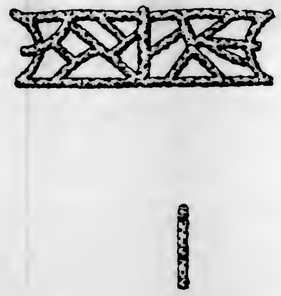
**143,109**
**DESIGN FOR A COMBINATION DESK UNIT**
**Scott P. Akers, Washington, D. C.**
**Application August 31, 1945, Serial No. 121,758**
**Term of patent 7 years**
**(Cl. D74—1)**



The ornamental design for a combination desk unit, as shown.



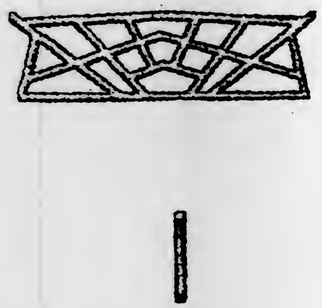
**143,110**
**DESIGN FOR A CONCRETE FENCE PANEL**
**William Ashenfelter, Swanton, Ohio**
**Application July 31, 1945, Serial No. 121,101**
**Term of patent 14 years**
**(Cl. D28—1)**



The ornamental design for a concrete fence panel, substantially as shown and described.

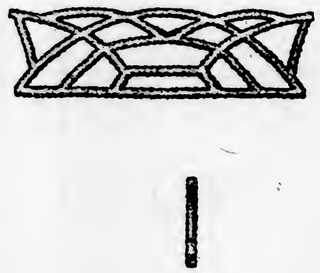
---

**143,111**
**DESIGN FOR A CONCRETE FENCE PANEL**
**William Ashenfelter, Swanton, Ohio**
**Application August 10, 1945, Serial No. 121,365**
**Term of patent 14 years**
**(Cl. D28—1)**



The ornamental design for a concrete fence panel, substantially as shown and described.

**143,112**
**DESIGN FOR A CONCRETE FENCE PANEL**
**William Ashenfelter, Swanton, Ohio**
**Application August 10, 1945, Serial No. 121,366**
**Term of patent 14 years**
**(Cl. D28—1)**



The ornamental design for a concrete fence panel, substantially as shown and described.

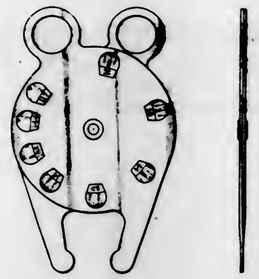
---

**143,113**
**DESIGN FOR A SPECTACLE TEMPLE PIECE**
**Eric Barrett and Altina Barrett, Beverly Hills, Calif.**
**Application November 25, 1944, Serial No. 116,541**
**Term of patent 14 years**
**(Cl. D57—1)**



The ornamental design for a spectacle temple piece, as shown.

143,114
**DESIGN FOR A MICROMETER CALIPER**
Francis Cheyney Beckley, West Hartford, Conn.
Application May 24, 1945, Serial No. 119,699
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a micrometer caliper, substantially as shown.

143,115
**DESIGN FOR A PLAQUE OR SIMILAR ARTICLE**
Beulah Brock Bell, Wilmington, N. C.
Application June 12, 1945, Serial No. 120,035
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a plaque or similar article, as shown.

143,116
**DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE**
Frederick Bieberbach, New York, N. Y., assignor to Nordic Silver Co., Inc., New York, N. Y.
Application January 19, 1945, Serial No. 117,505
Term of patent 3½ years
(Cl. D45—19)



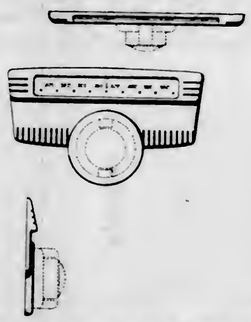
The ornamental design for a brooch pin or similar article, substantially as shown and described.

143,117
**DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE**
Frederick Bieberbach, New York, N. Y., assignor to Nordic Silver Co., Inc., New York, N. Y.
Application July 3, 1945, Serial No. 120,501
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a brooch pin or similar article, substantially as shown and described.

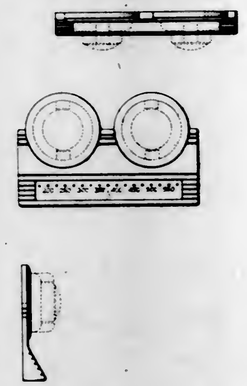
143,118
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjornerantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,759
Term of patent 7 years
(Cl. D61—25)



The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

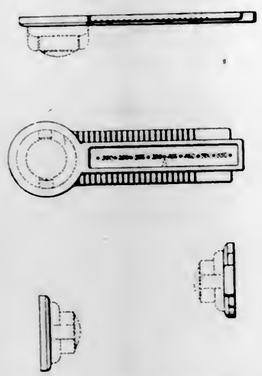


143,119
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjornerantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,760
Term of patent 7 years
(Cl. D61—25)



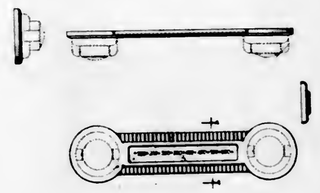
The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

143,120
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjornerantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,761
Term of patent 7 years
(Cl. D61—25)



The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

143,121
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjornerantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,762
Term of patent 7 years
(Cl. D61—25)



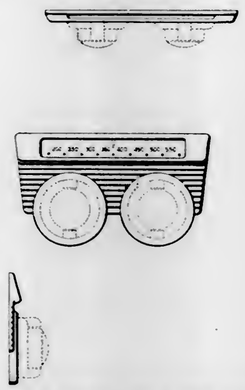
The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

143,122
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjornerantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,763
Term of patent 7 years
(Cl. D61—25)



The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

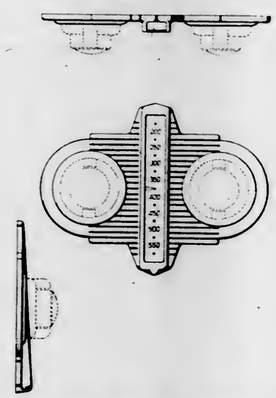
143,123
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjorncrants, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,764
Term of patent 7 years
(Cl. D81—25)



The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

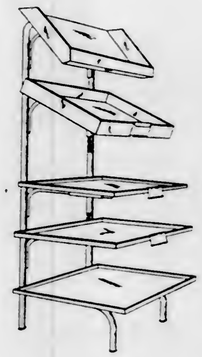
---

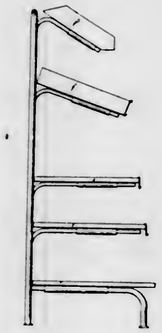
143,124
**DESIGN FOR A HEAT CONTROL AND INDICATOR PANEL FOR RANGES OR THE LIKE**
Carl G. Bjorncrantz, Evanston, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application March 29, 1945, Serial No. 118,765
Term of patent 7 years
(Cl. D81—25)



The ornamental design for a heat control and indicator panel for ranges or the like, substantially as shown and described.

143,125
**DESIGN FOR A DISPLAY STAND**
Robert Brinkema, Kew Gardens, N. Y.
Application April 4, 1945, Serial No. 118,859
Term of patent 7 years
(Cl. D80—9)

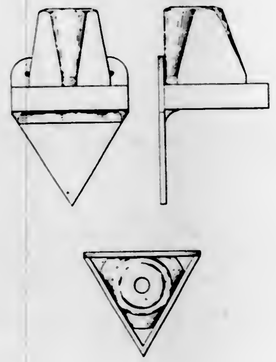




The ornamental design for a display stand, substantially as shown.



143,126
**DESIGN FOR A CHALK HOLDER OR SIMILAR ARTICLE**
Meredith C. Bromfield, Denver, Colo., assignor to Bromfield-Ritter and Company, Denver, Colo., a corporation of Colorado
Application August 7, 1945, Serial No. 121,295
Term of patent 14 years
(Cl. D74—24)



The ornamental design for a chalk holder or similar article, as shown.

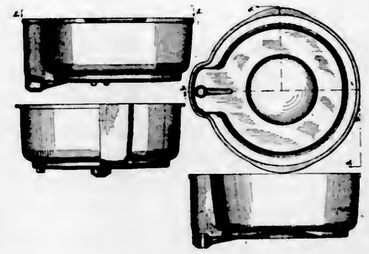
---

143,127
**DESIGN FOR A CLIMBING TOY FIGURE**
Leslie H. Burlin, Valparaiso, Ind., assignor to Milton L. Sturm, Evanston, Ill., doing business as Milton Sturm & Company, Chicago, Ill.
Application May 28, 1945, Serial No. 119,764
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a climbing toy figure, as shown.

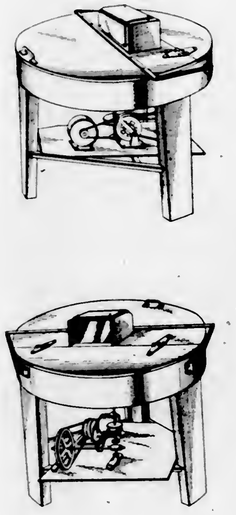
143,128
**DESIGN FOR A CREAM SEPARATOR SUPPLY TANK**
Clifford E. Butler, Waterloo, Iowa
Application July 20, 1945, Serial No. 120,819
Term of patent 14 years
(Cl. D23—1)



The ornamental design for a cream separator supply tank, substantially as shown.

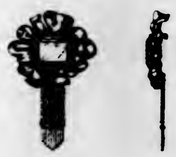
---

143,129
**DESIGN FOR A PLATE WHIRLER**
James T. Campbell, Detroit, Mich.
Application March 22, 1944, Serial No. 113,002
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a plate whirler, substantially as shown.

143,130
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,454
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

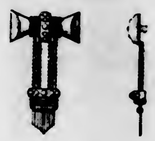
143,131
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,455
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

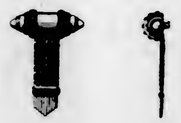
---

143,132
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,456
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

143,133
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,457
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

143,134
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,458
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

143,135
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,459
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.



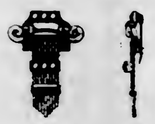
143,136
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,460
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

143,137
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and William Diehl, Summit, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,461
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

143,138
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, and Germinal Anthony Santullo, Corona, Long Island, N. Y., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,462
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

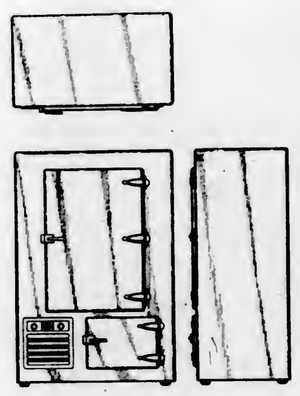
143,139
**DESIGN FOR A PIN OR SIMILAR ARTICLE**
Helen D. Cole, New York, N. Y., and Kurt Speck, Palisade Park, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Application May 9, 1945, Serial No. 119,463
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown.

---

143,140
**DESIGN FOR A FROZEN FOOD CABINET**
William S. Connell, Norwood Park Township, Cook County, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application June 3, 1944, Serial No. 113,845
Term of patent 7 years
(Cl. D67—3)



The ornamental design for a frozen food cabinet, as shown.

143,141
**DESIGN FOR AN EMBOSSED LEATHER**
Leonard I. Freedman, New York, N. Y.
Application July 4, 1945, Serial No. 120,520
Term of patent 7 years
(Cl. D87—3)



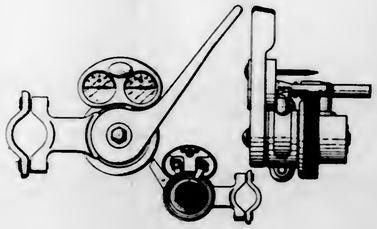
The ornamental design for an embossed leather, substantially as shown and described.

143,142
**DESIGN FOR WRITING PAPER OR THE LIKE**
Milan Freund and Paul Neuberger,
New York, N. Y.
Application August 7, 1945, Serial No. 121,301
Term of patent 7 years
(Cl. D59—14)



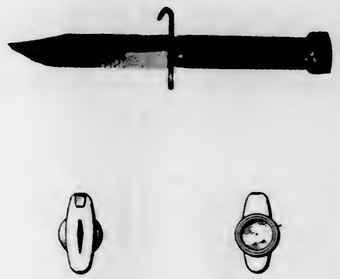
The ornamental design for writing paper or the like, as shown.

143,143
**DESIGN FOR A COMBINED HAND CONTROL VALVE MOUNTING AND INDICATOR**
Harold R. Fitz Gerald, Rocky River, and George E. Kricker, Cleveland, Ohio, assignors to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application August 9, 1944, Serial No. 114,801
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a combined hand control valve mounting and indicator, substantially as shown.

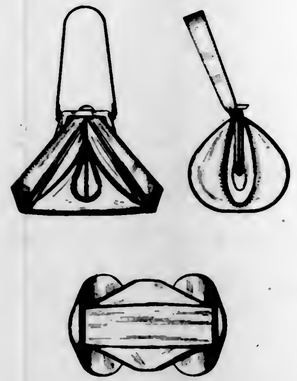
143,144
**DESIGN FOR A KNIFE**
Frederick K. Formis, West Hartford, Conn.
Application June 16, 1945, Serial No. 120,154
Term of patent 7 years
(Cl. D22—3)



The ornamental design for a knife, as shown.

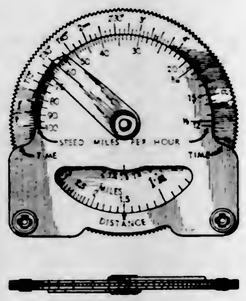


143,145
**DESIGN FOR A HANDBAG**
Frank X. Hiltenbrand, Weehawken, N. J., assignor to Harry Rosenfeld Co., New York, N. Y., a firm
Application July 28, 1945, Serial No. 121,050
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown.

143,146
**DESIGN FOR A CALCULATOR**
James M. Hobbs, Tucson, Ariz.
Application July 3, 1945, Serial No. 120,502
Term of patent 14 years
(Cl. D52—6)



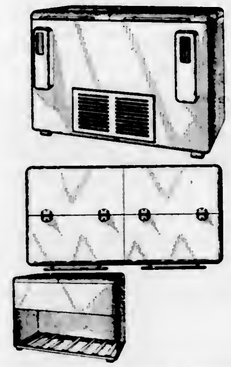

The ornamental design for a calculator, as shown.

143,147
**DESIGN FOR A BRACELET**
George J. Lederer, Providence, R. I., assignor to Providence Stock Company, Providence, R. I., a corporation of Rhode Island
Application June 18, 1945, Serial No. 120,189
Term of patent 3½ years
(Cl. D45—4)



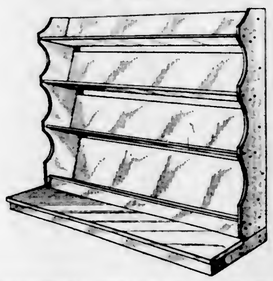
The ornamental design for a bracelet, as shown.

143,148
**DESIGN FOR A COOLER CABINET OR THE LIKE**
Simon J. Lonergan, Albion, Mich., assignor to Lonergan Manufacturing Company, Albion, Mich., a corporation of Michigan
Application January 10, 1945, Serial No. 117,366
Term of patent 14 years
(Cl. D67—4)



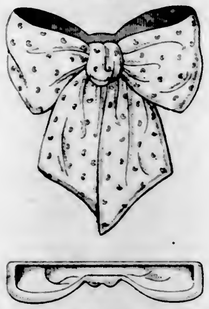
The ornamental design for a cooler cabinet or the like, substantially as shown.

143,149
**DESIGN FOR A DISPLAY RACK**
Rodney W. MacDonald, Seattle, Wash.
Application June 18, 1945, Serial No. 120,176
Term of patent 3½ years
(Cl. D80—9)



The ornamental design for a display rack, as shown.

143,150
**DESIGN FOR A WALL VASE**
Nona Mader, Glendale, Calif., assignor to Golden State Ceramics, Pasadena, Calif., a co-partnership
Application February 5, 1945, Serial No. 117,763
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a wall vase, substantially as shown.

143,151
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 23, 1945, Serial No. 120,902
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

143,152
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 31, 1945, Serial No. 121,114
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

143,153
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 31, 1945, Serial No. 121,116
Term of patent 3½ years
(Cl. D45—19)





The ornamental design for a jewelry pin or similar article, substantially as shown.

143,154
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 31, 1945, Serial No. 121,117
Term of patent 3½ years
(Cl. D45—19)





The ornamental design for a jewelry pin or similar article, substantially as shown.

143,155
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 31, 1945, Serial No. 121,118
Term of patent 3½ years
(Cl. D45—19)





The ornamental design for a jewelry pin or similar article, substantially as shown.

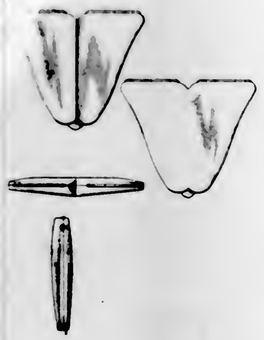


143,156
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 31, 1945, Serial No. 121,120
Term of patent 3½ years
(Cl. D45—19)



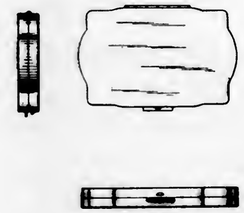
The ornamental design for a jewelry pin or similar article, substantially as shown.

143,157
**DESIGN FOR A VANITY CASE**
Peter Muller-Munk, Pittsburgh, Pa., assignor to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois
Application September 12, 1945, Serial No. 122,043
Term of patent 7 years
(Cl. D86—10)



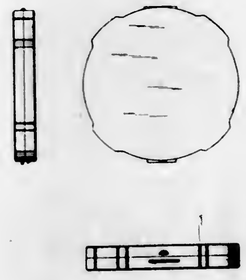
The ornamental design for a vanity case, as shown.

143,158
**DESIGN FOR A COMPACT**
Leonard Nelson, New York, N. Y., assignor to Columbia Precision Products Corp., Long Island City, N. Y., a corporation of New York
Application July 12, 1945, Serial No. 120,665
Term of patent 7 years
(Cl. D86—10)



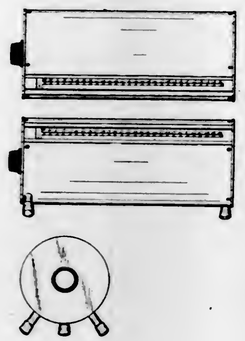
The ornamental design for a compact, substantially as shown.

143,159
**DESIGN FOR A COMPACT**
Leonard Nelson, New York, N. Y., assignor to Columbia Precision Products Corp., Long Island City, N. Y., a corporation of New York
Application July 12, 1945, Serial No. 120,666
Term of patent 7 years
(Cl. D86—10)



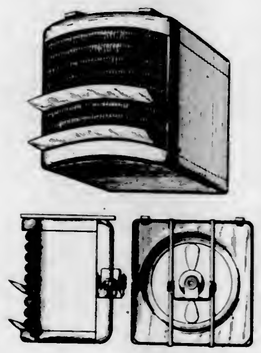
The ornamental design for a compact, substantially as shown.

143,160
**DESIGN FOR A COMPUTER**
Clarence A. Olson, Minneapolis, Minn.
Application June 9, 1945, Serial No. 119,989
Term of patent 3½ years
(Cl. D52—1)



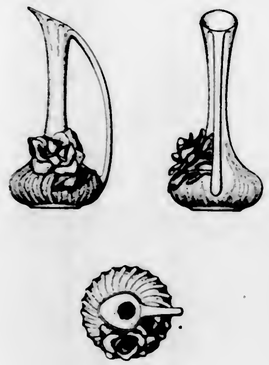
The ornamental design for a computer, substantially as shown.

143,161
**DESIGN FOR A REFRIGERATING UNIT**
Frederic G. Peck, Upper Darby, Pa., assignor to Merchant & Evans Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 31, 1945, Serial No. 119,828
Term of patent 7 years
(Cl. D62—4)



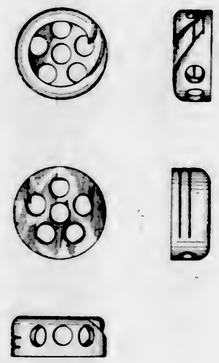
The ornamental design for a refrigerating unit, as shown.

143,162
**DESIGN FOR A VASE OR SIMILAR ARTICLE**
Vernell Paul Petersen, Los Angeles, Calif.
Application June 12, 1945, Serial No. 120,031
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, as shown.

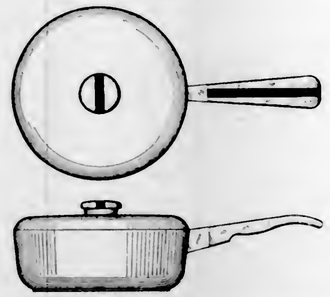
143,163
**DESIGN FOR A HAIR CURLING DEVICE OR SIMILAR ARTICLE**
Mario Petitta, New York, N. Y.
Application August 6, 1945, Serial No. 121,267
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a hair curling device or similar article, substantially as shown.

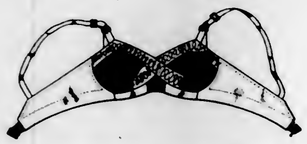


143,164
**DESIGN FOR A SAUCEPAN OR SIMILAR ARTICLE**
Alfred F. Ramsthal, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application May 21, 1945, Serial No. 119,655
Term of patent 14 years
(Cl. D44—1)



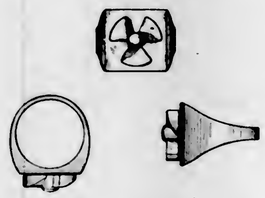
The ornamental design for a saucepan or similar article, as shown.

143,165
**DESIGN FOR A BRASSIÈRE OR SIMILAR GARMENT**
Raymond J. Redares, Los Angeles, Calif.
Application January 22, 1945, Serial No. 117,546
Term of patent 14 years
(Cl. D20—4)



The ornamental design for a brassière or similar garment, substantially as shown and described.

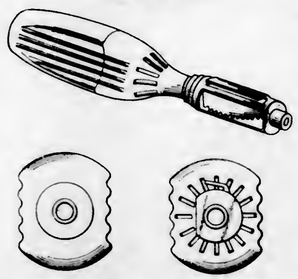
143,166
**DESIGN FOR A FINGER RING**
Charles Van Brunt Reilly, Milwaukee, Wis.
Application January 1, 1945, Serial No. 117,208
Term of patent 3½ years
(Cl. D45—10)



The ornamental design for a finger ring, as shown.

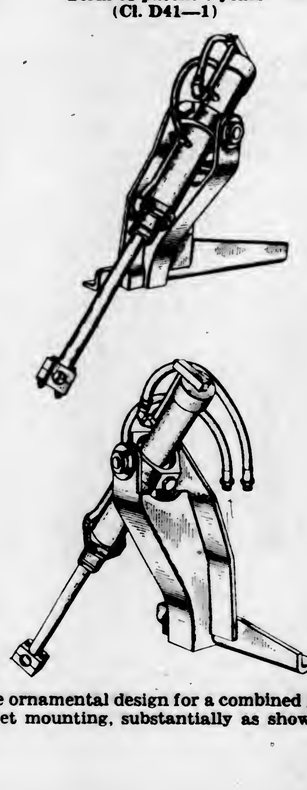


143,167
**DESIGN FOR A FISH SCALING DEVICE**
Otto G. Rieske, Buffalo, N. Y.
Application July 27, 1944, Serial No. 114,581
Term of patent 14 years
(Cl. D11—1)



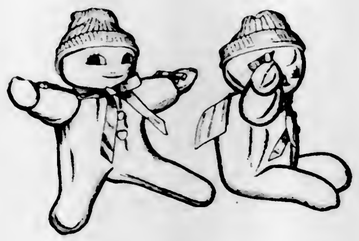
The ornamental design for a fish scaling device, substantially as shown.

143,168
**DESIGN FOR A COMBINED JACK AND BRACKET MOUNTING**
Harvey W. Rockwell, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application March 10, 1945, Serial No. 118,392
Term of patent 7 years
(Cl. D41—1)



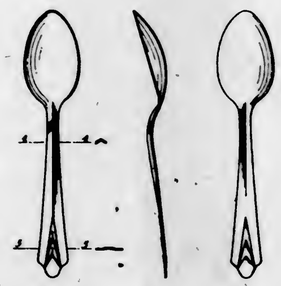
The ornamental design for a combined jack and bracket mounting, substantially as shown.

143,169
**DESIGN FOR A DOLL OR SIMILAR ARTICLE**
Richard C. Russell and Jefferine D. Russell, Monterey Park, Calif.
Application January 25, 1945, Serial No. 117,602
Term of patent 7 years
(Cl. D34—4)



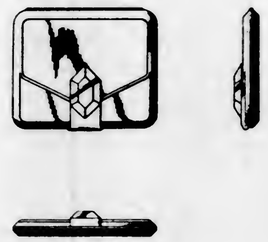
The ornamental design for a doll or similar article, as shown.

143,170
**DESIGN FOR A SPOON OR SIMILAR ARTICLE**
George Edward Sekowski, New Haven, Conn., assignor to Ekco Products Company, a corporation of Maryland
Application October 30, 1944, Serial No. 116,068
Term of patent 14 years
(Cl. D54—12)



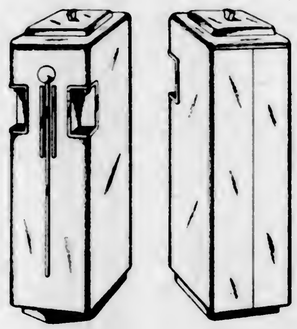
The ornamental design for a spoon or similar article, as shown and described.

143,171
**DESIGN FOR A VANITY CASE**
Walter Dorwin Teague, New York, N. Y., assignor to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois
Application September 12, 1945, Serial No. 122,042
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a vanity case, as shown.

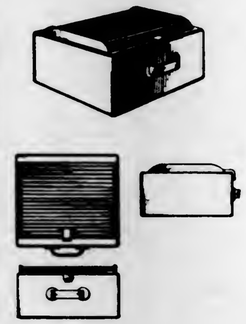
143,172
**DESIGN FOR A CARBONATOR CABINET**
Parke H. Thompson, Glendale, Mo., assignor to Amp Corporation, St. Louis, Mo., a corporation of Missouri
Application July 12, 1945, Serial No. 120,669
Term of patent 14 years
(Cl. D2—3)



The ornamental design for a carbonator cabinet, substantially as shown.

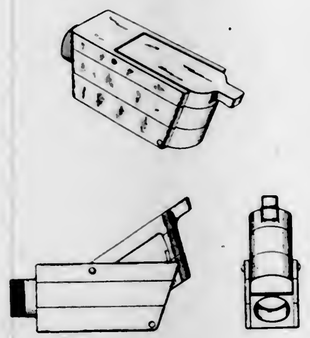


143,173
**DESIGN FOR A SUITCASE**
Robert D. Tobey, Seattle, Wash., assignor to Henry L. Kotkins, doing business as Seattle Luggage Company, Seattle, Wash.
Application January 29, 1945, Serial No. 117,671
Term of patent 14 years
(Cl. D87—5)



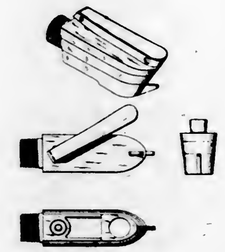
The ornamental design for a suitcase, as shown.

143,174
**DESIGN FOR A GATE FOR DISPENSING LIQUIDS**
Paul Wagner, Burlington, Wis.
Application June 23, 1945, Serial No. 120,303
Term of patent 14 years
(Cl. D91—3)



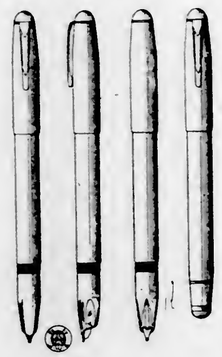
The ornamental design for a gate for dispensing liquids, as shown.

143,175
**DESIGN FOR A LOCK LEVER FAUCET**
Paul Wagner, Burlington, Wis.
Application June 23, 1945, Serial No. 120,304
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a lock lever faucet, as shown.

143,176
**DESIGN FOR A FOUNTAIN PEN**
John N. Whitehouse, Camden, N. J.
Application June 8, 1945, Serial No. 119,966
Term of patent 3½ years
(Cl. D74—17)



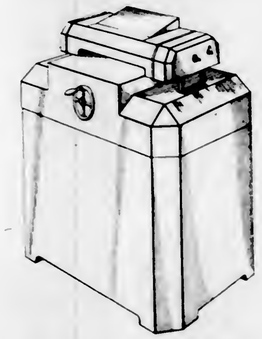
The ornamental design for a fountain pen, substantially as shown.

**143,177**
**DESIGN FOR A SACHET OR SIMILAR ARTICLE**
**Anne Yandell, New York, N. Y., assignor to Mary Chess, Inc., New York, N. Y., a corporation of New York**
**Application September 7, 1945, Serial No. 121,908**
**Term of patent 14 years**
**(Cl. D86—10)**



The ornamental design for a sachet or similar article, as shown.

**143,178**
**DESIGN FOR A HOUSING FOR WOOD PLANING MACHINE**
**Edward Yager, Toledo, Ohio**
**Application May 8, 1945, Serial No. 119,450**
**Term of patent 7 years**
**(Cl. D93—2)**



The ornamental design for a housing for a wood planing machine, as shown and described.

Patents Nos. 2,390,980 to 2,391,376

THE
# OFFICIAL GAZETTE
OF THE
## United States Patent Office

Vol. 581—No. 3 TUESDAY, DECEMBER 18, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

| | Page |
|---|---|
| ISSUE OF DECEMBER 18, 1945 | 345 |
| INTERFERENCE NOTICE | 345 |
| NOTICE | 345 |
| NOTICES OF CANCELLATION | 345 |
| ADJUDICATED PATENTS | 345 |
| APPLICATIONS UNDER EXAMINATION | 346 |
| DECISIONS OF THE U. S. COURTS— | |
| In re Lippold | 347 |
| In re Merkle | 349 |
| Lynes v. Lehnhard | 351 |
| In re Ward | 355 |
| In re Irmscher | 357 |
| CHANGES IN CLASSIFICATION | 359 |
| REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE | 366 |
| NOTICE | 368 |
| TRADE-MARKS PUBLISHED (105 APPLICATIONS) | 369 |
| TRADE-MARK REGISTRATIONS GRANTED | 382 |
| TRADE-MARK REGISTRATIONS RENEWED | 390 |
| PATENTS GRANTED | 393 |
| DESIGNS | 490 |

### December 18, 1945

| | | |
|---|---|---|
| Trade-Marks | 121 | No. 418,320 to No. 418,440, inclusive. |
| T. M. Renewals | 71 | |
| Patents | 397 | No. 2,390,980 to No. 2,391,376, inclusive. |
| Designs | 78 | No. 143,179 to No. 143,256, inclusive. |
| Total | 667 | |

### Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., Nov. 16, 1945.*

*Blue-Belle Dress Co., its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Blue Bell, Inc., Jefferson Bldg., Elm and Market Sts., Greensboro, N. C., for registration of a trade-mark and trade-mark registered January 8, 1929, No. 251,493, to Blue-Belle Dress Co., 248 West 35th St., New York, N. Y., and the notice of such proceeding sent by registered mail to said Blue-Belle Dress Co., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Blue-Belle Dress Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

### Notice

U. S. PATENT OFFICE, *Washington 25, D. C., Oct. 29, 1945.*

Effective October 18, the Office fees for correction and preparation of drawings shall be as follows.

For new drawings and corrections:

| | |
|---|---|
| Minimum charges for correction | $1.00 |
| For corrections on time basis, per hour | 3.00 |
| Minimum charge per sheet for new patent and design drawings | 15.00 |
| Minimum charge for new trade-mark drawings | 5.00 |

CASPER W. OOMS,
*Commissioner.*

### Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Nov. 19, 1945.*

*Kalpul, Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Jane Wharton Mitten, 626 Broadway, Cincinnati, Ohio, to effect the cancellation of trade-mark registration of Kalpul, Inc., 1216 N. E. 2nd Ave., Miami, Fla., No. 339,096, dated September 22, 1936, and the notice of such proceeding sent by registered mail to the said Kalpul, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kalpul, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Richmond, Va., Nov. 20, 1945.*

*Maison Andre, Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Maurice Handman, 100 Varick Street, New York, N. Y., to effect the cancellation of trade-mark registration of Maison Andre, Inc., 117 North Howard Street, Baltimore, Maryland, No. 323,017, dated March 26, 1935, and the notice of such proceeding sent by registered mail to the said Maison Andre, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Maison Andre, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Richmond, Va., Dec. 3, 1945.*

*Wm. L. Bristow Laboratories, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by John C. Zobrist, 914 Walnut Road, Charleston, W. Va., to effect the cancellation of trade-mark registration of Wm. L. Bristow Laboratories, 33 California Street, San Francisco, Calif., No. 330,265, dated November 26, 1935, and the notice of such proceeding sent by registered mail to the said Wm. L. Bristow Laboratories at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Wm. L. Bristow Laboratories, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

### Adjudicated Patent

(D. C. Ill.) Sande patent, No. 1,714,520, for an attachable nut, *Held* invalid. *Elastic Stop Nut Corp. of America v. Greer*, 62 F. Supp. 363.

## Condition of Applications Under Examination at Close of Business November 30, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 82,677; Trade-Mark Division, 3,406. Oldest new case, November 3, 1944; oldest amended, November 2, 1944.)
(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action: New | Amended | No. of applications awaiting action |
|---|---|---|---|
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 6 | Jan. 13 | 1366 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Nov. 3 | †Nov. 25 | 1584 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 16 | Jan. 22 | 1490 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | Apr. 12 | †Dec. 29 | 1318 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Nov. 15 | †Nov. 20 | 2227 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb. 3 | Mar. 1 | 1425 |
| 7. JARBOE, C. G., Optics, Photography | June 5 | June 1 | 1251 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Apr. 10 | Apr. 25 | 1431 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 14 | 1513 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 18 | June 20 | 404 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 5 | †Dec. 6 | 1470 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning | Apr. 9 | Apr. 4 | 1260 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Apr. 11 | Apr. 9 | 972 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | May 15 | Apr. 23 | 1026 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Apr. 6 | Apr. 10 | 965 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Jan. 22 | Jan. 8 | 754 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 15 | Feb. 22 | 1344 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Mar. 21 | Apr. 2 | 889 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Sales. | Mar. 19 | Mar. 20 | 1012 |
| 21. THOMPSON, T. J., Textiles | May 4 | May 23 | 553 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Feb. 24 | Mar. 23 | 1404 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 28 | 172 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 9 | Apr. 5 | 958 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Feb. 12 | Mar. 2 | 1165 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 16 | †Dec. 26 | 1477 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | †Dec. 22 | †Dec. 7 | 1310 |
| 28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons. | Jan. 5 | †Dec. 28 | 1170 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools. | Jan. 4 | Jan. 10 | 1405 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Feb. 27 | Feb. 19 | 1432 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | July 6 | July 2 | 926 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Mar. 21 | Apr. 21 | 1115 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 20 | Feb. 28 | 1398 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 10 | Feb. 22 | 802 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Feb. 12 | Feb. 10 | 1204 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Feb. 27 | Mar. 13 | 945 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 20 | †Dec. 15 | 1293 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Feb. 23 | Feb. 10 | 1088 |
| 39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 22 | Jan. 22 | 1506 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 17 | Mar. 6 | 1703 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 685 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Apr. 11 | Mar. 27 | 743 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 18 | Feb. 1 | 868 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Nov. 9 | †Nov. 2 | 789 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Feb. 14 | Feb. 9 | 1544 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | Jan. 15 | Feb. 19 | 921 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 19 | Apr. 30 | 1456 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | Jan. 15 | Jan. 11 | 1453 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Apr. 7 | Apr. 2 | 844 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 17 | Mar. 17 | 1677 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Feb. 9 | Feb. 2 | 2370 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | †Dec. 26 | Feb. 3 | 1971 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationary; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Nov. 9 | †Nov. 30 | 1664 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Nov. 10 | †Nov. 30 | 1602 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 21 | Mar. 14 | 1055 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | Jan. 17 | Jan. 3 | 1181 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 16 | †Dec. 20 | 1413 |
| 58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | May 28 | 865 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 28 | †Dec. 21 | 1574 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 23 | Jan. 23 | 1348 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 22 | Feb. 26 | 1392 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 12 | †Dec. 21 | 2175 |
| 63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 27 | Feb. 1 | 1725 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | July 19 | July 23 | 917 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Dec. 13 | †Dec. 13 | 1451 |
| Trade-Marks: RICHMOND, F. A. | Aug. 1 | Sept. 12 | 3406 |
| Designs: KALUPY, H. H. | Aug. 2 | Sept. 21 | 2315 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing devices for use in addressing and similar machines. Serial No. 478,199; Dec. 18. Class 23.

Agency Paper Company, New York, N. Y. Air-mail paper, air-mail envelopes, printing paper, etc. Serial No. 486,638; Dec. 18. Class 37.

Alex-Torts Company: *See*—
Magrill, Alex L.

Allied Chemical & Dye Corporation, New York, N. Y. Dyestuffs. Serial No. 484,514; Dec. 18. Class 6.

American Textile Company, Inc., Pawtucket, R. I. Lace. Serial Nos. 477,755–6; Dec. 18. Class 42.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumed powder. Serial No. 485,117; Dec. 18. Class 6.

Arista Foundations, New York, N. Y. Foundation garments, corsets, etc. Serial No. 486,401; Dec. 18. Class 39.

Arrow Engineering & Chemical Co., Inc., Flint, Mich. All purpose insect spray, grains for destroying mice, volatile insecticide, etc. Serial No. 485,808; Dec. 18. Class 6.

Associated Products, Inc., Chicago, Ill. Face powder, face make-up, creams, etc. Serial No. 487,067; Dec. 18. Class 6.

Astmann, William, doing business as Vital Drug Products, Yonkers, N. Y. Lotion for poison ivy, poison oak, and poison sumac. Serial No. 486,134; Dec. 18. Class 6.

Begley, George, Jr., doing business as Parfum Dalmora, Chicago, Ill. Perfume and cologne. Serial No. 481,047; Dec. 18. Class 6.

Boswell, William C., Seattle, Wash. Publication. Serial No. 487,882; Dec. 18. Class 38.

Boutte, Armand V. Sr., doing business as The Phenacedol Company, New Orleans, La. Astringents, antiseptics, and deodorizing solution. Serial No. 484,611; Dec. 18. Class 6.

Bowen, Jack, doing business as Electronic Communication Equipment Co., Chicago, Ill. Electronic communication apparatus. Serial No. 483,671; Dec. 18. Class 21.

Brulin & Company, Incorporated, Indianapolis, Ind. Liquid floor waxes, and paste furniture polish. Serial No. 475,355; Dec. 18. Class 16.

Byck Bros. & Company, Incorporated, Louisville, Ky. Articles of clothing for women. Serial No. 484,084; Dec. 18. Class 39.

California Spray-Chemical Corporation, Wilmington, Del. Herbicides. Serial No. 485,399; Dec. 18. Class 6.

Calkins Manufacturing Company, Spokane, Wash. Combine shoes used as shaker screen separators in harvester-thresher combines. Serial No. 484,444; Dec. 18. Class 23.

Calkins Manufacturing Company, Spokane, Wash. Rotary rod weeders. Serial No. 484,445; Dec. 18. Class 23.

Callaway Mills, La Grange, Ga. Yarn. Serial No. 486,983; Dec. 18. Class 43.

Carolina Underwear Company, Inc., Thomasville, N. C. Ladies' underwear and men's shorts, union suits, etc. Serial No. 486,851; Dec. 18. Class 39.

China Food Distributors: *See*—
Wong, Clarence Y.

Darling, L. A., Company, Bronson, Mich. Merchandise display stands and racks, price-and-display-card stands, etc. Serial No. 482,617; Dec. 18. Class 32.

Davis, Ronald G., doing business as The Spartan Company, Minneapolis, Minn. Vaporizers. Serial No. 481,525; Dec. 18. Class 44.

Daytimer Shoe Company, North Adams, Mass. Children's shoes. Serial No. 486,517; Dec. 18. Class 39.

Dermetics, Inc., New York, N. Y. Lotions for sweetening the breath, for cleansing the teeth and tongue, and for application to the skin and scalp. Serial No. 484,832; Dec. 18. Class 6.

Dick, A. B., Company, Chicago, Ill. Duplicating ink. Serial No. 487,040; Dec. 18. Class 11.

Disston, Henry, & Sons, Incorporated, Tacony, Pa. Beet knives. Serial No. 484,520; Dec. 18. Class 23.

Dunhill, Alfred, Limited, London, England. Cosmetic preparations and dentifrices. Serial No. 477,007; Dec. 18. Class 6.

Egyptian Chemical Co., doing business as Manlee Company, Boston, Mass. After shave lotion. Serial No. 487,180; Dec. 18. Class 6.

Electro-Matic Products Co.: *See*—
Littwin, Leo F.

Electronic Communication Equipment Co.: *See*—
Bowen, Jack.

Fernday Research Corporation, New York, N. Y. Toy gliders. Serial No. 488,151; Dec. 18. Class 22.

Fischer, Albert T., doing business as Plastic Products Co., Cleveland Heights, Ohio. Thermoplastic treated appliques. Serial No. 476,280; Dec. 18. Class 40.

Flanhaft, Harry, doing business as Ibis Perfumer, New York, N. Y. Perfume and cologne. Serial No. 487,465; Dec. 18. Class 6.

Fluordent, Inc., New Orleans, La. Preparation for treating teeth. Serial No. 487,186; Dec. 18. Class 6.

Foster Brothers Company, Decatur, Ill. Preparation for a room deodorizer. Serial No. 486,196; Dec. 18. Class 6.

Fram Corporation, East Providence, R. I. Liquid conduits for oil filter connections. Serial No. 486,947; Dec. 18. Class 35.

Freund, Freund & Co., Inc., New York, N. Y. Cotton piece goods, pillow cases, pillow protectors, etc. Serial No. 465,657; Dec. 18. Class 42.

Frez-O-Mat Company, Chicago, Ill. Self-serving refrigerator dispensing cabinets. Serial No. 482,875; Dec. 18. Class 31.

General Aniline & Film Corporation, New York, N. Y. Electric light unit. Serial No. 487,126; Dec. 18. Class 21.

General Aniline & Film Corporation, New York, N. Y. Waterproof ink and opaque typewriter ribbons. Serial No. 487,129; Dec. 18. Class 11.

General Fibre Company, St. Louis, Mo. Duck decoys. Serial No. 487,903; Dec. 18. Class 22.

Glens, William F., doing business as "K-9" Market, Rochester, N. Y. Dog and cat food. Serial No. 482,377; Dec. 18. Class 46.

Globe-Wernicke Co., The, Norwood, Ohio. Deposit ticket files, index tabs, gummed folder labels, etc. Serial No. 477,764; Dec. 18. Class 37.

Gray, Julia C., Washington, D. C. Dolls. Serial No. 488,087; Dec. 18. Class 22.

Hebner-Matteson Co., Seattle, Wash. Hand-operated device for the making of cigarettes. Serial No. 480,988; Dec. 18. Class 8.

Hercules Powder Company, Wilmington, Del. Chlorinated paraffin. Serial No. 486,409; Dec. 18. Class 6.

Holophane Company, Inc., New York, N. Y. Periodical of the house organ type. Serial No. 488,527; Dec. 18. Class 38.

Home-Made Rug Co., Kernersville, N. C., and New York, N. Y. Rugs. Serial No. 483,621; Dec. 18. Class 42.

Howard Knitwear, New York, N. Y. Children's and girls' knitwear. Serial No. 484,843; Dec. 18. Class 39.

Ibis Perfumer: *See*—
Flanhaft, Harry.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial No. 478,218; Dec. 18. Class 26.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial Nos. 487,843–4; Dec. 18. Class 26.

Industrial Manufacturers, Inc., New York, N. Y. Infants' and children's play suits and rompers. Serial No. 480,825; Dec. 18. Class 39.

International Plastic Corporation, Morristown, N. J. Paper adhesive tapes and cellulose adhesive tapes. Serial No. 481,907; Dec. 18. Class 37.

John-Frederics, Inc., New York, N. Y. Bath and facial soaps. Serial No. 485,868; Dec. 18. Class 4.

John-Frederics, Inc., New York, N. Y. Perfume, toilet water, eau de cologne, etc. Serial No. 485,869; Dec. 18. Class 6.

Johnson & Sons, Manufacturing Chemists, Limited, London, England. Photographic apparatus. Serial No. 484,257; Dec. 18. Class 26.

Jolles, Ida, doing business as J. Jolles Studios, New York, N. Y. Plastic handbags. Serial No. 487,082; Dec. 18. Class 3.

Jolles, J., Studios: *See*—
Jolles, Ida.

"K-9" Market: *See*—
Glens, William F.

Keepsake Lingerie, Chicago, Ill. Lingerie. Serial No. 486,149; Dec. 18. Class 39.

Kraus Ceramic Products Co. Inc., Sparks, Md. Mineral colloidal slurry. Serial No. 472,781; Dec. 18. Class 1.

La-Del Conveyor & Manufacturing Company, New Philadelphia, Ohio. Ventilating fans and apparatus for conveying air. Serial No. 478,459; Dec. 18. Class 34.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Perfume, talcum powder, sachet powder, etc. Serial No. 486,043; Dec. 18. Class 6.

Lederle Laboratories, Inc., New York, N. Y. Thiouracil preparation. Serial No. 485,782; Dec. 18. Class 6.

Le Roi Hosiery Co., Inc., New York, N. Y. Children's hosiery. Serial No. 486,957; Dec. 18. Class 39.

Littwin, Leo F., doing business as Electro-Matic Products Co., Chicago, Ill. Electrical rectifiers. Serial No. 485,091; Dec. 18. Class 21.

Lyerly, Robert C., doing business as The Tomly Company, Salisbury, N. C. Ice cream mix. Serial No. 486,418; Dec. 18. Class 46.

Magrill, Alex L., doing business as Alex-Torts Company, Dallas, Tex. Candy and potato chips. Serial No. 487,511; Dec. 18. Class 46.

Maine Specialty Company, Portland, Maine. Pedro hooks, pelican hooks, turnbuckle sleeves, etc. Serial No. 472,391; Dec. 18. Class 13.
Manlee Company: *See*—
Egyptian Chemical Co.
May Girl Coat Co., New York, N. Y. Girls' coats. Serial No. 486,155; Dec. 18. Class 39.
McCoy, Jones & Company, Inc., Chicago, Ill. Pins, safety pins, hook and eye fasteners, etc. Serial No. 475,433; Dec. 18. Class 40.
Montgomery, Wm., Co., Philadelphia, Pa. Coffee. Serial No. 484,493; Dec. 18. Class 46.
Munising Paper Company, The, Munising, Mich. and Chicago, Ill. Paper sheets. Serial Nos. 482,385–6; Dec. 18. Class 4.
National Lacquer & Paint Company, Inc., Chicago, Ill. Ready mixed lacquers, paints and paint enamels. Serial No. 481,747; Dec. 18. Class 16.
Oil and Gas Research, Inc., Wilmington, Del. Carbon black. Serial Nos. 486,540–1; Dec. 18. Class 1.
Ores, C. H., & Processing Limited, London, England. Lignocellulosic material. Serial No. 475,509; Dec. 18. Class 1.
Para Ti Corporation, New York, N. Y. Perfumes, toilet water and face powders, etc. Serial No. 482,297; Dec. 18. Class 6.
Parfum Dalmora: *See*—
Begley, George, Jr.
Pettibone Mulliken Corporation, Chicago, Ill. Bell seats for blast furnaces, bell blocks and wearing rings, etc. Serial No. 481,754; Dec. 18. Class 34.
Phenacedol Company, The: *See*—
Boutte, Armand V., Sr.
Pinnell, Wm. H., Co., Inc., New York, N. Y. Fabrics in the piece. Serial No. 481,242; Dec. 18. Class 42.
Pio, Bartolomeo, Philadelphia, Pa. Wines. Serial No. 486,116; Dec. 18. Class 47.
Plastic Products Co.: *See*—
Fischer, Albert T.
Puritan Compressed Gas Corporation, Kansas City, Mo. High pressure metal control valves, valve seats and fittings for valves. Serial No. 481,161; Dec. 18. Class 13.
Range, Marguerite W., doing business as Range Products, Chicago, Ill. Hair and scalp ointments. Serial No. 487,144; Dec. 18. Class 6.
Range Products: *See*—
Range, Marguerite W.
Retardex Company, Brooklyn, N. Y. Disinfectant. Serial No. 485,967; Dec. 18. Class 6.
Rheem Research Products Incorporated, Baltimore, Md. Solution for chemically producing a corrosion resistant coating on metal. Serial No. 485,924; Dec. 18. Class 6.
Rival Manufacturing Company, Kansas City, Mo. Can openers. Serial No. 485,885; Dec. 18. Class 23.
Roach and Musser Company, Muscatine, Iowa. Millwork (wooden). Serial No. 482,120; Dec. 18. Class 12.
Rogers, J. Arthur, & Son, Chicago, Ill. Finger rings. Serial No. 486,169; Dec. 18. Class 28.
Rose, Marion, Chicago, Ill. Hair curlers. Serial No. 481,164; Dec. 18. Class 40.
Saks & Company, New York, N. Y. Women's and misses' dresses, hats, coats, etc. Serial No. 485,246; Dec. 18. Class 39.
Sigma Leather Manufacturing Corporation: *See*—
Simon, S. W., Leather Co. Inc., assignor.
Simon, S. W., Leather Co. Inc., assignor to Sigma Leather Manufacturing Corporation, New York, N. Y. Raw and partially finished hides and skins and tanned leathers. Serial No. 477,079; Dec. 18. Class 1.
Solvay Process Company, The, New York, N. Y. Synthetic organic detergents. Serial No. 484,914; Dec. 18. Class 4.
Sonneborn, L., Sons, Inc., New York, N. Y. Vegetable oil shampoo. Serial No. 485,890; Dec. 18. Class 6.
Sonoral Laboratories: *See*—
Tausig, Jack J.
Spartan Company, The: *See*—
Davis, Ronald G.
Spencer Shoe Corporation, Boston, Mass. Shoes and arch cushions. Serial No. 483,388; Dec. 18. Class 39.
Spiegel, Inc., Chicago, Ill. Shoes. Serial No. 480,477; Dec. 18. Class 39.
Spiegel, Inc., Chicago, Ill. Bicycles and parts thereof. Serial No. 482,708; Dec. 18. Class 19.
Spring-Air Company, Holland, Mich. Mattresses and box springs. Serial No. 485,608; Dec. 18. Class 32.
Squibb, E. R., & Sons, New York, N. Y. Aspirin and tablets of aspirin. Serial No. 484,987; Dec. 18. Class 6.
Standard Oil Company, Louisville, Ky. Technical white mineral oils and petrolatum. Serial No. 485,661; Dec. 18. Class 6.
Star Plastic Mfg. Co., Inc., New York, N. Y. Trimmings. Serial Nos. 484,544–5; Dec. 18. Class 40.
Tausig, Jack J., doing business as Sonoral Laboratories, New York, N. Y. Hypodermic solutions. Serial No. 481,499; Dec. 18. Class 6.
Timmy Togs Company, Philadelphia, Pa. Boys' wash and dress suits, blouses, outer shirts, etc. Serial No. 485,893; Dec. 18. Class 39.
Tomly Company, The: *See*—
Lyerly, Robert C.
Universal Microphone Company, Inglewood, Calif. Electric light bulbs. Serial No. 487,105; Dec. 18. Class 21.
Vital Drug Products: *See*—
Astmann, William.
Willoughby, Maxwell K., King Ferry, N. Y. Skin lotion. Serial No. 486,635; Dec. 18. Class 6.
Wise, Irving, & Company, New York, N. Y. Liquid medicine to be taken orally. Serial No. 486,555; Dec. 18. Class 6.
Wong, Clarence Y., doing business as China Food Distributors, Los Angeles, Calif. Flavoring condiment. Serial No. 486,599; Dec. 18. Class 46.

# LIST OF REGISTRANTS OF TRADE-MARKS

Abraham & Straus, Inc., New York, N. Y., to Abraham & Straus, Inc., Brooklyn, N. Y. Linen piece goods, textile bed sheets, pillowcases, etc. 202,560; renewed Aug. 25, 1945. O. G. Dec. 18. Classes 39 and 42.
American Chain & Cable Company, Inc.: *See*—
Page Steel & Wire Company.
American Varnish Company, The, Chicago, Ill. Varnishes. 49,960–1; re-renewed Feb. 27, 1946. O. G. Dec. 18. Class 16.
Ams, Max, Inc., New York, N. Y. Honey. 418,423; Dec. 18. Class 46.
Annesley, Griffith, doing business as Diamoloy Tool Company, New York, N. Y. Propellers. 418,417; Dec. 18. Class 19.
Arden, Elizabeth Sales Corporation, New York, N. Y. Sun tan oil lotion in capsule form. 418,434; Dec. 18. Class 6.
Arden, Elizabeth Sales Corporation, New York, N. Y. Face and body creams. 418,435; Dec. 18. Class 6.
Aviation Research & Development Corporation, Fredericksburg, Va. Liquid composition for forming bubbles. 418,368; Dec. 18; Serial No. 483,165; published Oct. 9, 1945. Class 6.
Bailey-Pitzer Company, San Francisco, Calif. Canned fruits and vegetables. 418,386; Dec. 18; Serial No. 484,227; published Oct. 9, 1945. Class 46.
Banner Distributors, Inc.: *See*—
Taney Sales, Inc.
Basford, H. R., Co., San Francisco, Calif. Drain cleaners of the water actuated type. 418,371; Dec. 18; Serial No. 483,300; published Oct. 9, 1945. Class 23.
Beaunit Mills, Inc., New York, N. Y. Knitted fabrics in the piece. 418,330; Dec. 18; Serial No. 471,849; published June 19, 1945. Class 42.
Bedford Yarn Co., Boston, Mass. Woolen yarns. 418,436; Dec. 18. Class 43.
Beech Aircraft Corporation, Wichita, Kans. Airplanes of all kinds and structural parts thereof. 418,379; Dec. 18; Serial No. 484,009; published Oct. 9, 1945. Class 19.
Bell, Dr., Medicine Co., Inc.: *See*—
Sutherland, E. E., Medicine Co.
Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Drain valves. 418,403; Dec. 18; Serial No. 485,000; published Oct. 9, 1945. Class 13.
Bestoseal Co., The: *See*—
Rubenstein, Meyer.
Birtman Electric Company, Chicago, Ill. Electric space heaters and electric irons. 418,322; Dec. 18; Serial No. 485,843; published Oct. 9, 1945. Class 21.
Blair Manufacturing Company: *See*—
Case, Adelbert B.
Breon, George A., & Company, Kansas City, Mo. Compound for the treatment of gastro-intestinal infections. 418,348; Dec. 18; Serial No. 480,813; published Oct. 2, 1945. Class 6.
Bruns Seed Company: *See*—
Davenport Seed Company.
Brunswig Drug Company, also doing business as Angelus Laboratories, Los Angeles, Calif. Capsules for treatment of colds. 418,378; Dec. 18; Serial No. 483,651; published Oct. 2, 1945. Class 6.
Buffalo Dental Manufacturing Company, Buffalo, N. Y. Thermometer-tubes. 47,788; re-renewed Nov. 21, 1945. O. G. Dec. 18. Class 26.
Cactus Remedy Co.: *See*—
Hixson, Etta.
Campbell Products, Inc., New York, N. Y. Mercurial diuretics. 418,384; Dec. 18; Serial No. 484,160; published Sept. 25, 1945. Class 6.
Capewell Manufacturing Company, The: *See*—
Union Horse Nail Company.
Case, Adelbert B., to Blair Manufacturing Company, Springfield, Mass. Lawn-mowers. 50,038; re-renewed Feb. 27, 1945. O. G. Dec. 18. Class 23.
Charles of the Ritz, Inc., New York, N. Y. Lipsticks and rouge. 418,431; Dec. 18. Class 6.
Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Hair tonic. 418,398–9; Dec. 18; Serial Nos. 484,824–5; published Oct. 2, 1945. Class 6.



Clark Mile-End Spool Cotton Co., The, East Newark, N. J., to The Clark Thread Company, Newark, N. J. Cotton thread. 49,298; re-renewed Jan. 30, 1946. O. G. Dec. 18. Class 43.
Clark Thread Company, The: *See*—
Clark Mile-End Spool Cotton Co., The.
Cluett, Peabody & Co., Inc., Troy, N. Y. Underwear. 209,264; renewed Feb. 16, 1946. O. G. Dec. 18. Class 39.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 209,340; renewed Feb. 23, 1946. O. G. Dec. 18. Class 39.
"Colos" International Company for Commerce and Industry, Inc., New York, N. Y. Enameled metal table and cooking hollowware. 418,375; Dec. 18; Serial No. 483,467; published Oct. 9, 1945. Class 13.
Columbian Steel Tank Company, Kansas City, Mo. Electric switch cabinets, electric knockout boxes, etc. 418,422; Dec. 18. Class 21.
Consolidated Cosmetics, Chicago, Ill. Face powder, hand cream, lipstick, etc. 418,380; Dec. 18; Serial No. 484,010; published Oct. 9, 1945. Class 6.
Corn Products Refining Company, New York, N. Y. Chemically modified corn protein. 418,345; Dec. 18; Serial No. 480,314; published Oct. 2, 1945. Class 6.
Coty, Inc., Wilmington, Del., and New York, N. Y., to Coty, Inc., New York, N. Y. Perfumes, toilet waters, face powder, etc. 204,179; renewed Oct. 13, 1945. O. G. Dec. 18. Class 6.
Coty, Inc., Wilmington, Del., and New York, N. Y., to Coty, Inc., New York, N. Y. Rouge. 208,061–2; renewed Jan. 19, 1946. O. G. Dec. 18. Class 6.
Cramer Chemical Co., The, Gardner, Kans. Chemical and pharmaceutical preparations. 418,406; Dec. 18. Class 6.
Crane Packing Company, Chicago, Ill. Packing hooks. 418,410; Dec. 18. Class 23.
D. & W. Fuse Co., Providence, R. I., to General Electric Company, Schenectady, N. Y. Insulated electrical conductors, and especially asbestos-covered insulated electrical conductors. 46,764; re-renewed Oct. 10, 1945. O. G. Dec. 18. Class 21.
D. & W. Fuse Co., Providence, R. I., to General Electric Company, Schenectady, N. Y. Electric safety-fuses and parts thereof and mountings and inclosures therefor. 48,439; re-renewed Dec. 26, 1945. O. G. Dec. 18. Class 21.
D. N. & E. Walter & Co., San Francisco, Calif. Textile fabric piece goods. 418,418; Dec. 18. Class 42.
Davenport Seed Company, also doing business as Bruns Seed Company, Davenport, Iowa. Hybrid seed corn and farm seeds generally. 418,394; Dec. 18; Serial No. 484,560; published Oct. 9, 1945. Class 1.
Diamoloy Tool Company: *See*—
Annesley, Griffith.
Dir-Kleen Company, Chicago, Ill. Soapless cleaning compound. 418,376; Dec. 18; Serial No. 483,609; published Oct. 9, 1945. Class 4.
Dole Refrigerating Company, Chicago, Ill. Refrigerators and cold plates. 418,440; Dec. 18. Class 31.
Electric Sprayit Co., The, Sheboygan, Wis. Motor operated floor polishing and smoothing machines and parts thereof. 418,424; Dec. 18. Class 23.
Electric Sprayit Co., The, Sheboygan, Wis. Motor operated vibrators for shaking fluid containers and the like. 418,425; Dec. 18. Class 23.
Electric Steam Radiator Corporation, Detroit, Mich. Heating devices. 418,329; Dec. 18; Serial No. 471,793; published Oct. 9, 1945. Class 21.
Elmar Laboratories: *See*—
Martini, Emil P.
Elston, Edwin, Los Angeles, Calif. Sensitized photograph films, still and movie cameras, and projectors and tripods. 418,395; Dec. 18; Serial No. 484,672; published Oct. 9, 1945. Class 26.
Elston, Edwin, Los Angeles, Calif. Photographic chemicals. 418,396; Dec. 18; Serial No. 484,673; published Oct. 9, 1945. Class 6.
Englehart, Harold, Akron, Ohio. Hand cleaners. 418,400; Dec. 18; Serial No. 484,834; published Oct. 9, 1945. Class 4.
Essex Wire Corporation, Detroit, Mich. Electrical switches, relays, solenoids, etc. 418,361; Dec. 18; Serial No. 482,567; published Oct. 9, 1945. Class 21.
Euclid Underwriting Corporation, The, Brooklyn, N. Y. Candy. 418,404; Dec. 18; Serial No. 485,634; published Oct. 9, 1945. Class 46.
F-R Corporation, The, New York, N. Y. Soapless detergent. 418,373; Dec. 18; Serial No. 483,368; published Oct. 9, 1945. Class 4.
Federal Mill & Elevator Co. Inc., to Federal Mills, Inc., Lockport, N. Y. Wheat flour. 202,977; renewed Sept. 8, 1945. O. G. Dec. 18. Class 46.
Federal Mill, Inc.: *See*—
Federal Mill & Elevator Co. Inc.
Moseley & Motley Milling Co.
Ferris, F. A., & Company, New York, N. Y., to Stahl-Meyer, Inc., Brooklyn, N. Y. Smoked meats. 207,365; renewed Dec. 29, 1945. O. G. Dec. 18. Class 46.
Firestone Industrial Products Company: *See*—
Firestone Tire & Rubber Company, The.
Firestone Tire & Rubber Company, The, doing business as Firestone Industrial Products Company, Akron, Ohio. Piece goods made of natural or synthetic fibers treated with plastics or synthetic resins. 418,324; Dec. 18; Serial No. 468,324; published April 17, 1945. Class 42.
Flannocrat Mfg. Co., to Rugby Knitting Mills, Inc., Buffalo, N. Y. Garment, known as sport blouse. 203,006; renewed Sept. 8, 1945. O. G. Dec. 18. Class 39.
Fletcher Manufacturing Company to International Braid Company, Providence, R. I. Plain and ornamental braids, bindings, and trimmings. 49,187; re-renewed Jan. 30, 1946. O. G. Dec. 18. Class 40.
Flint & Walling Manufacturnig Co., Inc.: *See*—
Flint & Walling Mfg. Company.
Flint & Walling Mfg. Company to Flint & Walling Manufacturing Co., Inc., Kendallville, Ind. Horse-powers; windlasses; vises; etc. 209,509; renewed Feb. 23, 1946. O. G. Dec. 18. Class 23.
Frankel, Edward T., New York, N. Y., to Edward T. Frankel, Pittsburgh, Pa. Mathematical publications. 201,234; renewed July 21, 1945. O. G. Dec. 18. Class 38.
Freel, John A., doing business as Michigan Specialty and Manufacturing Co., Bay City, Mich. Metal Christmas tree holders. 418,359; Dec. 18; Serial No. 482,485; published Oct. 9, 1945. Class 13.
Fullerton Mutual Orange Association, Fullerton, Calif. Fresh citrous fruits. 209,353; renewed Feb. 23, 1945. O. G. Dec. 18. Class 46.
Garberding, Waldo L., doing business as Twentieth Century Mfg. Co., Chicago, Ill. Electrical lamps. 418,334; Dec. 18; Serial No. 474,407; published Oct. 9, 1945. Class 21.
Gardiner Mfg. Co.: *See*—
Gardiner, Thomas R.
Gardiner, Thomas R., doing business as Gardiner Mfg. Co., Oakland, Calif. Unfinished or partly finished or semi-fabricated castings and forgings. 418,325; Dec. 18; Serial No. 469,810; published Oct. 2, 1945. Class 14.
General Cigar Co., Inc., New York, N. Y. Cigars. 204,265; renewed Oct. 13, 1945. O. G. Dec. 18. Class 17.
General Electrical Company: *See*—
D. & W. Fuse Co.
Gibbs & Company, Chicago, Ill. Make-up and lipstick. 418,336; Dec. 18; Serial No. 475,613; published May 22, 1944. Class 6.
Grand Union Company, The: *See*—
Miller, Alberta.
Grasso, Joe, & Son, Galveston, Tex. Fresh frozen shrimp. 418,411; Dec. 18. Class 46.
Graton & Knight Company, Worcester, Mass. Belt dressing. 418,364; Dec. 18; Serial No. 482,839; published Oct. 2, 1945. Class 4.
Globe Disinfecting Co., Inc., New York, N. Y. Liquid cleaner and stain remover. 418,363; Dec. 18; Serial No. 482,739; published Oct. 2, 1945. Class 4.
Grout & Company, Limited: *See*—
Grout and Company, Limited.
Grout and Company, Limited, to Grout & Company, Limited, Great Yarmouth, England. Crepe bandages (medical and surgical). 203,942; renewed Sept. 29, 1945. O. G. Dec. 18. Class 44.
Hastings & Co.: *See*—
Kemp, W. H., Co.
Hecht Company, The: *See*—
Hub, The.
Helderberg Cement Co., The, Howe Cave, N. Y., to North American Cement Corporation, New York, N. Y. Portland cement. 49,886; renewed Feb. 20, 1946. O. G. Dec. 18. Class 12.
Hermans, James, to Morgan-Sabalol Products, Inc., New York, N. Y. Soluble powder employed as a dentifrice, mouth wash, etc. 209,458; renewed Feb. 23, 1946. O. G. Dec. 18. Class 6.
Higgins Laboratories, Inc., New Orleans, La. Paratroop radio telephones, radio frequency crystals and short wave telephone transmitters and receivers. 418,344; Dec. 18; Serial No. 479,480; published Oct. 9, 1945. Class 21.
High School Teacher Company, The, Blanchester, Ohio, to Scholastic Corporation, New York, N. Y. Periodical publications. 207,583; renewed Jan. 5, 1946. O. G. Dec. 18. Class 38.
Hitt Fireworks Company, Seattle, Wash. Scare away salutes. 418,372; Dec. 18; Serial No. 483,319; published Oct. 9, 1945. Class 9.
Hixson, Etta, doing business as Cactus Remedy Co., Kansas City, Mo., to Etta Hixson, doing business as Cactus Remedy Co., Palo Alto, Calif., and San Francisco, Calif. Remedy for corns and calli. 203,495; renewed Sept. 22, 1945. O. G. Dec. 18. Class 6.
Howell, Eva M., Danville, W. Va. Sanitary seats and covers for commodes, bedpans, and toilets. 202,747; renewed Sept. 1, 1945. O. G. Dec. 18. Class 37.
Hub, The, Baltimore, Md., also doing business as The Hecht Company, Washington, D. C. Boys' suits. 206,578; renewed Dec. 8, 1945. O. G. Dec. 18. Class 39.
Hudnut, Richard, New York, N. Y. Deodorants of liquid and cream type, face powder, rouge, etc. 418,338; Dec. 18; Serial No. 476,738; published Oct. 9, 1945. Class 6.
Hudnut, Richard, New York, N. Y. Skin cream. 418,437; Dec. 18. Class 6.

Huntington, Frederick T., doing business as R. C. B. S. Company, Oroville, Calif. Dies for private use. 418,323; Dec. 18; Serial No. 467,341; published Oct. 9, 1945. Class 9.

Ideal Bakery: *See*—
Sandison, Arthur T.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. 418,340; Dec. 18; Serial No. 477,699; published Oct. 9, 1945. Class 26.

International Braid Company: *See*—
Fletcher Manufacturing Company.

International Importing Company, Boston, Mass. Canned fruits and canned vegetables, dried dates, etc. 418,341; Dec. 18; Serial No. 478,873; published Oct. 9, 1945. Class 46.

International Shoe Company: *See*—
Peters Shoe Co.

International Shoe Company, St. Louis, Mo. Men's shoes of leather. 207,124; renewed Dec. 22, 1945. O. G. Dec. 18. Class 39.

Kaktine Company, The, Glendale, Calif. Shampoo. 418,392; Dec. 18; Serial No. 484,408; published Oct. 9, 1945. Class 6.

Kemp, W. H., Co., New York, N. Y., to Hastings & Co., Philadelphia, Pa. Powdered paints. 46,559; re-renewed Sept. 26, 1945. O. G. Dec. 18. Class 16.

Kinney, H. W., and Sons, Inc., Columbus, Ind. Liver-iron-thiamin preparation. 418,397; Dec. 18; Serial No. 484,788; published Oct. 9, 1945. Class 6.

L & R Organic Products Co., Inc., New York, N. Y. Dye assistants, dyes and dyestuffs. 418,357; Dec. 18; Serial No. 482,429; published Oct. 9, 1945. Class 6.

Lamport Company, Inc., The: *See*—
Lamport Mfg. Supply Co., Inc.

Lamport Mfg. Supply Co., Inc., The, to The Lamport Company, Inc., New York, N. Y. Sheets, pillowcases, and piece goods of linen, cotton, etc. 205,172; renewed Nov. 3, 1945. O. G. Dec. 18. Class 42.

Lederle Laboratories, Inc., New York, N. Y. Sulfathiazole preparation. 418,389; Dec. 18; Serial No. 484,310; published Oct. 2, 1945. Class 6.

Lederle Laboratories, Inc., New York, N. Y. Sulfaquanidine-niacin preparation. 418,390; Dec. 18; Serial No. 484,311; published Oct. 2, 1945. Class 6.

Lee, H. D., Co., Inc., The, Kansas City, Mo. Skin lotion. 418,405; Dec. 18. Class 6.

Lelong, Lucien, Inc., Chicago, Ill. Perfumes, cologne, toilet water, etc. 418,335; Dec. 18; Serial No. 474,416; published Oct. 2, 1945. Class 6.

Lewis, Edmund B., Freemont, Nebr. Household deodorant. 418,429; Dec. 18. Class 6.

Liebmann Breweries, Inc., Brooklyn, N. Y. Malt beverages. 208,710; renewed Feb. 9, 1946. O. G. Dec. 18. Class 48.

Lincoln Engineering Company, St. Louis, Mo. Injectors. 418,412; Dec. 18. Class 23.

Longines-Wittnauer Watch Co. Inc.: *See*—
Wittnauer, A., Co.

Loudonville Milling Company, The, Loudonville, Ohio. Wheat flour. 208,877; renewed Feb. 9, 1946. O. G. Dec. 18. Class 46.

Louis, M., Products Co.: *See*—
Napolitan, Louis.

Lumen Bearing Company, Buffalo, N. Y. Non-ferrous alloys. 49,950; re-renewed Feb. 27, 1946. O. G. Dec. 18. Class 14.

M & M Limited, Newark, N. J. Candy. 418,332; Dec. 18; Serial No. 474,291; published May 22, 1945. Class 46.

Mallinckrodt Chemical Works, St. Louis, Mo. Alkanolamine carbonate polymers. 418,385; Dec. 18; Serial No. 484,209; published Oct. 2, 1945. Class 6.

Martineau Polish-Wax Company: *See*—
Martineau, William D.

Martineau, William D., doing business as Martineau Polish-Wax Company, Elizabethton, Tenn. Liquid polish-wax. 418,414; Dec. 18. Class 16.

Martini, Emil P., doing business as Elmar Laboratories, Hackensack, N. J. Liquid skin treating preparation. 418,321; Dec. 18; Serial No. 461,000; published Sept. 21, 1943. Class 6.

Massachusetts Cotton Mills, Lowell, Mass., to Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. 47,658; re-renewed Nov. 14, 1945. O. G. Dec. 18. Class 42.

Massachusetts Cotton Mills, Lowell, Mass., to Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. 48,639; re-renewed Jan. 9, 1946. O. G. Dec. 18. Class 42.

Mattimore, James F., doing business as Montrose Products and Montrose Products Co., Worcester, Mass. Electrical cord, insulated electric wire and flexible tubing. 418,421; Dec. 18. Class 21.

Michigan Specialty and Manufacturing Co.: *See*—
Freel, John A.

Miller, Alberta, doing business as Wizard Products Co., Elizabethtown, Ky., to The Grand Union Company, New York, N. Y. Cleaning compound. 209,452; renewed Feb. 23, 1946. O. G. Dec. 18. Class 4.

Montrose Products: *See*—
Mattimore, James F.

Montrose Products Co.: *See*—
Mattimore, James F.

Moomaw, Sophia L., Corpus Christi, Tex. Liniment. 418,438; Dec. 18. Class 6.

Moorman Manufacturing Company, Quincy, Ill. Prepared stock feed. 207,848; renewed Jan. 12, 1946. O. G. Dec. 18. Class 46.

Morgan-Sabalol Products, Inc.: *See*—
Hermans, James.

Morris & Yeomans Ltd., Redditch, England. Needles, hat pins, knitting pins, etc. 418,342; Dec. 18; Serial No. 478,928; published Oct. 9, 1945. Class 40.

Moseley & Motley Milling Co., Rochester, N. Y., to Federal Mill, Inc., Lockport, N. Y. Wheat middlings. 204,043; renewed Oct. 6, 1945. O. G. Dec. 18. Class 46.

Myrurgia, S. A., Barcelona, Spain. Toilet soap. 418,365; Dec. 18; Serial No. 482,850; published Oct. 2, 1945. Class 4.

Myrurgia, S. A., Barcelona, Spain. Toilet soap. 418,369–70; Dec. 18; Serial Nos. 483,278–9; published Oct. 2, 1945. Class 4.

Napolitan, Louis, doing business as M. Louis Products Co., New York, N. Y. Shampoo. 418,337; Dec. 18; Serial No. 476,477; published Oct. 2, 1945. Class 6.

National Biscuit Company: *See*—
Pacific Coast Biscuit Company.

Nelco Tool Co., Inc., New York, N. Y. Metal cutting tools. 418,358; Dec. 18; Serial No. 482,437; published Oct. 9, 1945. Class 23.

Nonspi Company, The, Kansas City, Mo., to The Nonspi Company, New York, N. Y. Lotion for use on chapped hands and face and after shaving. 209,091; renewed Feb. 16, 1946. O. G. Dec. 18. Class 6.

North American Cement Corporation: *See*—
Helderberg Cement Co., The.

Northwest Chemurgy Co-operative, Wenatchee, Wash. Dextrose. 418,433; Dec. 18. Class 46.

Nuodex Products Co., Inc., Elizabeth, N. J. Dispersing agents for pigmented coating materials. 418,350; Dec. 18; Serial No. 481,122; published Oct. 9, 1945. Class 16.

Oakes, Thomas, & Co., Inc.: *See*—
Oakes, Thos., & Co.

Oakes, Thos., & Co., to Thomas Oakes & Co., Inc., Bloomfield, N. J. Cloth suitings for men and boys. 49,240; re-renewed Jan. 30, 1946. O. G. Dec. 18. Class 42.

Old Dutch Industrial Products Co., Inc., Harrison, N. J. Shoe dyes. 418,353; Dec. 18; Serial No. 482,177; published Oct. 9, 1945. Class 6.

Old Rip Van Winkle Grist Mill, Inc., The, Catskill, N. Y. Bread, rolls, cakes, etc. 418,351; Dec. 18; Serial No. 481,155; published Oct. 9, 1945. Class 46.

Pacific Coast Biscuit Company, Seattle, Wash., to National Biscuit Company, New York, N. Y. Crackers and cakes. 208,326; renewed Jan. 26, 1946. O. G. Dec. 18. Class 46.

Page Steel & Wire Company, Adrian Mich., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Wire fence. 205,848; renewed Nov. 17, 1945. O. G. Dec. 18. Class 13.

Palo Alto Orchards Company, South Easton, Mass., to Palo Alto Orchards Company, Boston, Mass. Pineapples in their natural state. 207,324; renewed Dec. 29, 1945. O. G. Dec. 18. Class 46.

Panoramic Radio Corporation, New York, N. Y. Radio receivers and radio transmitters. 418,327; Dec. 18; Serial No. 471,279; published Oct. 9, 1945. Class 21.

Parfait, Incorporated, Chicago, Ill. Lipstick. 418,420; Dec. 18. Class 6.

Parfums Corday, Inc.: *See*—
Thorpe, Jay, Inc.

Patent Fabric Co., The, Boston, Mass. Treated textile fabrics. 418,419; Dec. 18. Class 50.

"Peau d'Or" Sales Corporation, Miami, Fla. Toilet preparations. 418,439; Dec. 18. Class 6.

Pepperell Manufacturing Company: *See*—
Massachusetts Cotton Mills.

Peters Shoe Co., to International Shoe Company, St. Louis, Mo. Leather shoes. 46,043; re-renewed Sept. 5, 1945. O. G. Dec. 18. Class 39.

Piedmont Mills, Inc. Lynchburg, Va. Wheat flour. 418,426; Dec. 18. Class 46.

Post Watch Company, New York, N. Y. Horological instruments. 418,367; Dec. 18; Serial No. 483,030; published Oct. 9, 1945. Class 27.

Priess, John L., Chicago, Ill. Perfume, cologne, toilet water, etc. 418,352; Dec. 18; Serial No. 481,714; published Oct. 2, 1945. Class 6.

Prodol Company, Inc., New York, N. Y. Headache preparation. 418,326; Dec. 18; Serial No. 470,864; published Nov. 14, 1944. Class 6.

Quigley Company, Inc.: *See*—
Quigley Furnace Specialties Company, Inc.

Quigley Furnace Specialties Company, Inc., to Quigley Company, Inc., New York, N. Y. Bituminous compound. 206,244; renewed Nov. 24, 1945. O. G. Dec. 18. Class 12.

Quinn, K. J., & Co. Inc., Boston, Mass. Preparation in paste or semi-paste form. 418,328; Dec. 18; Serial No. 471,458; published Oct. 9, 1945. Class 4.

R. C. B. S. Company: *See*—
Huntington, Frederick T.

Rapidol Distributing Corporation, New York, N. Y. Hair coloring and shampooing preparations. 418,346; Dec. 18; Serial No. 480,622; published June 12, 1945. Class 6.

Raven Red Ash Coal Co., Inc., Red Ash, Va., to Raven Red Ash Coal Co., Inc., Raven, Va., and Beckley, W. Va. Coal. 209,130; renewed Feb. 16, 1946. O. G. Dec. 18. Class 1.



Rice-Stix Dry Goods, St. Louis, Mo. Pearl buttons, snap fasteners, hooks and eyes, etc. 209,546; renewed Feb. 23, 1946. O. G. Dec. 18. Class 40.

Rogers Peet Company, New York, N. Y. Men's and boys' overcoats, suits, trousers, etc. 418,430; Dec. 18. Class 39.

Royal Barbers and Beauticians Supply Company, Philadelphia, Pa. Lemon cleansing and bleaching cream, skin balm, shampoo, etc. 418,428; Dec. 18. Class 6.

Rubenstein, Meyer, doing business as The Bestoseal Co., New York, N. Y. Liquid wood preservative. 418,343; Dec. 18; Serial No. 479,445; published Oct. 2, 1945. Class 6.

Ruberoid Co., The, Boundbrook, N. J., and New York, N. Y. Asphalt felt. 418,413; Dec. 18. Class 12.

Rugby Knitting Mills, Inc.: *See*—
Flannocrat Mfg. Co.

Sandison, Arthur T., doing business as Ideal Bakery, Centralia, Wash., to Arthur T. Sandison, Port Angeles, Wash. Bread. 202,661; renewed Sept. 1, 1945. O. G. Dec. 18. Class 46.

Scaramelli & Company, Incorporated, also doing business as Serto Packing Co., New York, N. Y. Canned fruits, canned vegetables, canned fish, etc. 208,427; renewed Feb. 2, 1946. O. G. Dec. 18. Class 46.

Schobie Hats, Inc., Philadelphia, Pa. Men's hats. 418,415; Dec. 18. Class 39.

Scholastic Corporation: *See*—
High School Teacher Company, The.

Serto Packing Co.: *See*—
Scaramelli & Company, Incorporated.

Shedd-Bartush Foods, Inc., Detroit, Mich. Oleomargarine. 418,331; Dec. 18; Serial No. 472,127; published Oct. 2, 1945. Class 46.

Shell Union Oil Corporation, San Francisco, Calif. Chemical preparation for inhibiting the formation of rust. 418,339; Dec. 18; Serial No. 477,668; published May 1, 1945. Class 6.

Simplex Cloth Cutting Machine Company, New York, N. Y. Knife sharpening machines. 418,349; Dec. 18; Serial No. 481,029; published Oct. 9, 1945. Class 23.

Sisk, Albert W., & Son, Preston, Md. Canned vegetables. 418,333; Dec. 18; Serial No. 474,302; published Oct. 9, 1945. Class 46.

Socony-Vacuum Oil Company, Incorporated: *See*—
Standard Oil Company.

Sokoloff, Boris Th., Bloomfield, N. J. Vitamin food supplement. 418,381; Dec. 18; Serial No. 484,038; published Oct. 2, 1945. Class 6.

Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. white mineral oil. 418,402; Dec. 18; Serial No. 484,979; published Oct. 9, 1945. Class 6.

Sonneborn, L., Sons, Inc., New York, N. Y. Medicinal white mineral oil. 418,432; Dec. 18. Class 6.

Southeastern Mills, Inc., Rome, Ga. Wheat flour. 418,374; Dec. 18; Serial No. 483,454; published Oct. 9, 1945. Class 46.

Spracher, Clifford D., Downey, Calif. Safety switches. 418,354; Dec. 18; Serial No. 482,222; published Oct. 9, 1945. Class 21.

Stahl-Meyer, Inc.: *See*—
Ferris, F. A., & Company.
Stahl, Otto, Inc.

Stahl, Otto, Inc., New York, N. Y., to Stahl-Meyer, Inc., Brooklyn, N. Y. Meats and meat products. 204,511–12; renewed Oct. 20, 1945. O. G. Dec. 18. Class 46.

Standard Oil Company, New York to Socony-Vacuum Oil Company Incorporated, New York, N. Y. Petroleum and products of petroleum. 204,879–80; renewed Oct. 27, 1945; O. G. Dec. 18. Class 15.

Standard Tool Company, The, Cleveland, Ohio. Twist-drills. 49,921; re-renewed Feb. 20, 1946; O. G. Dec. 18. Class 23.

Standard Tool Company, The, Cleveland, Ohio. Milling-cutters. 49,922; re-renewed Feb. 20, 1946. O. G. Dec. 18. Class 23.

Standard Tool Company, The, Cleveland, Ohio. Reamers. 49,982; re-renewed Feb. 27, 1946. O. G. Dec. 18. Class 23.

Standard Tool Company, The, Cleveland, Ohio. Taps. 49,983; re-renewed Feb. 27, 1946. O. G. Dec. 18. Class 23.

Starline Inc., Harvard, Ill. Door hangers and door track. 418,391; Dec. 18; Serial No. 484,329; published Oct. 9, 1945. Class 13.

Stelzer Bros. Inc., New York, N. Y. Belts for outer wear. 418,427; Dec. 18. Class 39.

Sumet Corporation, Buffalo, N. Y. Bearing metals, cored and solid bars, gear blanks, etc. 418,356; Dec. 18; Serial No. 482,402; published Oct. 2, 1945. Class 14.

Sumners, Chas. G., Jr., Incorporated, New Freedom, Pa. Canned beans. 418,355; Dec. 18; Serial No. 482,302; published Oct. 2, 1945. Class 46.

Surprenant, Albert H., Boston, Mass. Electric insulated wire, electric cords, electric insulating tubing, etc. 418,362; Dec. 18; Serial No. 482,715; published Oct. 9, 1945. Class 21.

Sutherland, E. E., Medicine Co., Paducah, Ky., to Dr. Bell Medicine Co., Inc., New York, N. Y. Preparation for treatment of coughs, whooping-cough affections, etc. 48,951; re-renewed Jan. 16, 1946. O. G. Dec. 18. Class 6.

Taney Sales, Inc., New York, N. Y., assignor to Banner Distributors, Inc., Brooklyn, N. Y. Deodorant to absorb household odors. 418,409; Dec. 18. Class 6.

Thorpe, Jay, Inc., to Parfums Corday, Inc., New York, N. Y. Toilet powder. 206,812; renewed Dec. 8, 1945. O. G. Dec. 18. Class 6.

Transcontinental & Western Air, Inc., Kansas City, Mo. Weight and balance computing apparatus. 418,407–8; Dec. 18. Class 26.

Tremco Manufacturing Company, The, Cleveland, Ohio. Protective floor coatings. 418,382; Dec. 18; Serial No. 484,067; published Oct. 2, 1945. Class 16.

Tremco Manufacturing Company, The, Cleveland, Ohio. Permanently elastic compound. 418,416; Dec. 18. Class 16.

Tuttle Law Print: *See*—
Tuttle, William S.

Tuttle Press Company, The, Appletown, Wis. Florists' crêpe paper. 209,486; renewed Feb. 23, 1946. O. G. Dec. 18. Class 37.

Tuttle, William S., doing business as Tuttle Law Print, Rutland, Vt. Typewriter paper. 209,457; renewed Feb. 23, 1946. O. G. Dec. 18. Class 37.

Twentieth Century Mfg. Co.: *See*—
Garberding, Waldo L.

Ulmann, Bernhard, Co. Inc., New York, N. Y. Aprons. 209,087; renewed Feb. 16, 1946. O. G. Dec. 18. Class 39.

Union Horse Nail Company, New Haven, Conn., Chicago, Ill., to The Capewell Manufacturing Company, Hartford, Conn. Horse-nails. 49,964; re-renewed Feb. 27, 1946. O. G. Dec. 18. Class 13.

Unique Fibers, Inc., New York, N. Y. Yarn spun from mixtures of rayon and fur, etc. 418,401; Dec. 18; Serial No. 484,921; published Oct. 9, 1945. Class 43.

United States Gypsum Company, Chicago, Ill. Industrial gypsum fillers, lime and ground limestone. 418,320; Dec. 18; Serial No. 456,994; published Oct. 9, 1945. Class 1.

Vitamin-Erg Co., Inc., New York, N. Y. Ephedrine containing preparation for relief of asthma. 418,377; Dec. 18; Serial No. 483,639; published Oct. 9, 1945. Class 6.

Walker, Ralph J., doing business as Walker's Medical Arts Pharmacy, Newport News, Va. Liniment. 418,387; Dec. 18; Serial No. 484,284; published Oct. 2, 1945. Class 6.

Walker, Ralph J., doing business as Walker's Medical Arts Pharmacy, Newport News, Va. Mineral oil emulsion. 418,388; Dec. 18; Serial No. 484,285; published Oct. 2, 1945. Class 6.

Walker's Medical Arts Pharmacy: *See*—
Walker, Ralph J.

Warner, William R., & Co., Philadelphia, Pa., to William R. Warner & Co., Inc., New York, N. Y. Preparation for the cure of indigestion, dyspepsia, sick stomach, etc. 48,899; re-renewed Jan. 16, 1946. O. G. Dec. 18. Class 6.

Warner, William R., & Co., Philadelphia, Pa., to William R. Warner & Co., Inc., New York, N. Y. Remedy for rheumatism and rheumatic affections. 49,137; re-renewed Jan. 23, 1946. O. G. Dec. 18. Class 6.

Warner, William R., & Co., Inc.: *See*—
Warner, William R., & Co.

Waterbury Chemical Company, Des Moines, Iowa to Waterbury Chemical Company, Inc., New York, N. Y. Cod-liver oil. 49,086; re-renewed Jan. 23, 1946. O. G. Dec. 18. Class 6.

Waterbury Chemical Company, Inc.: *See*—
Waterbury Chemical Company.

Western Grocer Company, Marshalltown, Iowa. Cheese, creamery butter, oleomargarine, etc. 202,907; renewed Sept. 8, 1945. O. G. Dec. 18. Class 46.

White Laboratories, Inc., Newark, N. J. Preparation for increasing blood fat levels and altering sex characteristics in poultry and animals. 418,393; Dec. 18; Serial No. 484,511; published Oct. 2, 1945. Class 6.

Wilco Company, Los Angeles, Calif. Dry cleaner, cloth cleaner, hat cleaner, etc. 418,366; Dec. 18; Serial No. 482,861; published Oct. 9, 1945. Class 4.

Wilcox Electric Company, Inc., Kansas City, Mo. Radio communication transmitters and receivers. 418,347; Dec. 18; Serial No. 480,810; published Oct. 9, 1945. Class 21.

Williams, J. H., & Co., Buffalo, N. Y. Wrenches. 209,075; renewed Feb. 16, 1946. O. G. Dec. 18. Class 23.

Wittnauer, A., Co., to Longines-Wittnauer Watch Co., Inc., New York, N. Y. Watches, watchcases, and parts of watches. 204,440; renewed Oct. 20, 1945. O. G. Dec. 18. Class 27.

Wizard Products Co.: *See*—
Miller, Alberta.

Wolfenden, R., & Sons, Attleboro, Mass. Yarn. 418,360; Dec. 18; Serial No. 482,562; published Oct. 9, 1945. Class 43.

Woodworth, N. A., Company, Ferndale, Mich. Ferrous metal alloy. 418,383; Dec. 18; Serial No. 484,069; published Oct. 2, 1945. Class 14.

Worumbo Manufacturing Company, Bath, Maine, to Worumbo Manufacturing Company, Lisbon Falls, Maine. Woolen goods in the piece. 209,494; renewed Feb. 23, 1946. O. G. Dec. 18. Class 42.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

### CLASS 1

Coal. Raven Red Ash Coal Co., Inc. 209,130; renewed Feb. 16, 1946. O. G. Dec. 18.
Gypsum fillers, lime and ground limestone, Industrial. United States Gypsum Company. 418,320; Dec. 18; Serial No. 456,994; published Oct. 9, 1945.
Seed corn and farm seeds generally, Hybrid. Davenport Seed Company. 418,394; Dec. 18; Serial No. 484,560; published Oct. 9, 1945.

### CLASS 4

Belt dressing. Graton & Knight Company. 418,364; Dec. 18; Serial No. 482,839; published Oct. 2, 1945.
Cleaner and stain remover, Liquid. Globe Disinfecting Co., Inc. 418,363; Dec. 18; Serial No. 482,739; published Oct. 2, 1945.
Cleaner, cloth cleaner, hat cleaner, etc., Dry. Wilco Company. 418,366; Dec. 18; Serial No. 482,861; published Oct. 9, 1945.
Cleaners, Hand. H. Englehart. 418,400; Dec. 18; Serial No. 484,834; published Oct. 9, 1945.
Cleaning compound. A. Miller. 209,452; renewed Feb. 23, 1946. O. G. Dec. 18.
Cleaning compound, Soapless. Dir-Kleen Company. 418,376; Dec. 18; Serial No. 483,609; published Oct. 9, 1945.
Detergent, Soapless. F-R Corporation. 418,373; Dec. 18; Serial No. 483,368; published Oct. 9, 1945.
Preparation in paste or semi-paste form. K. J. Quinn & Co. Inc. 418,328; Dec. 18; Serial No. 471,458; published Oct. 9, 1945.
Soap, Toilet. S. A. Myrurgia. 418,365; Dec. 18; Serial No. 482,850; published Oct. 2, 1945.
Soap, Toilet. S. A. Myrurgia. 418,369–70; Dec. 18; Serial Nos. 483,278–9; published Oct. 2, 1945.

### CLASS 6

Capsules for treatment of colds. Brunswig Drug Company. 418,378; Dec. 18; Serial No. 483,651; published Oct. 2, 1945.
Chemical and pharmaceutical preparations. Cramer Chemical Co. 418,406; Dec. 18.
Chemical preparation for inhibiting the formation of rust. Shell Union Oil Corporation. 418,339; Dec. 18; Serial No. 477,668; published May 1, 1945.
Cleansing and bleaching cream, skin balm, shampoo, etc., Lemon. Royal Barbers and Beauticians Supply Company. 418,428; Dec. 18.
Coloring and shampooing preparations, Hair. Rapidol Distributing Corporation. 418,346; Dec. 18; Serial No. 480,622; published June 12, 1945.
Compound for the treatment of gastro-intestinal infections. George A. Breon & Company. 418,348; Dec. 18; Serial No. 480,813; published Oct. 2, 1945.
Cream, Skin. R. Hudnut. 418,437; Dec. 18.
Creams, Face and body. Elizabeth Arden Sales Corporation. 418,435; Dec. 18.
Dentifrice, mouth wash, etc., Soluble powder employed as a. J. Hermans. 209,458; renewed Feb. 23, 1946. O. G. Dec. 18.
Deodorant, Household. E. B. Lewis. 418,429; Dec. 18.
Deodorant to absorb household odors. Taney Sales, Inc. 418,409; Dec. 18.
Deodorants of liquid and cream type, face powder, rouge, etc. R. Hudnut. 418,338; Dec. 18; Serial No. 476,738; published Oct. 9, 1945.
Dye assistants, dyes and dyestuffs. L & R Organic Products Co., Inc. 418,357; Dec. 18; Serial No. 482,429; published Oct. 9, 1945.
Dyes, Shoe. Old Dutch Industrial Products Co., Inc. 418,353; Dec. 18; Serial No. 482,177; published Oct. 9, 1945.
Emulsion, Mineral oil. R. J. Walker. 418,388; Dec. 18; Serial No. 484,285; published Oct. 2, 1945.
Ephedrine containing preparation for relief of asthma. Vitamin-Erg Co., Inc. 418,377; Dec. 18; Serial No. 483,639; published Oct. 9, 1945.
Food supplement, Vitamin. B. Th. Sokoloff. 418,381; Dec. 18; Serial No. 484,038; published Oct. 2, 1945.
Headache preparation. Prodol Company. 418,326; Dec. 18; Serial No. 470,864; published Nov. 14, 1944.
Liniment, S. L. Moomaw. 418,438; Dec. 18.
Liniment. R. J. Walker. 418,387; Dec. 18; Serial No. 484,284; published Oct. 2, 1945.
Lipstick. Parfait, Incorporated. 418,420; Dec. 18.
Lipsticks and rouge. Charles of the Ritz, Inc. 418,431; Dec. 18.
Liquid composition for forming bubbles. Aviation Research & Development Corporation. 418,368; Dec. 18; Serial No. 483,165; published Oct. 9, 1945.
Liver-iron-thiamin preparation. H. W. Kinney and Sons, Inc. 418,397; Dec. 18; Serial No. 484,788; published Oct. 9, 1945.
Lotion for use on chapped hands and face and after shaving. Nonspi Company. 209,091; renewed Feb. 16, 1946. O. G. Dec. 18.
Lotion in capsule form, Sun tan oil. Elizabeth Arden Sales Corporation. 418,434; Dec. 18.
Lotion, Skin. H. D. Lee Co., Inc. 418,405; Dec. 18.
Make-up and lipstick. Gibbs & Company. 418,336; Dec. 18; Serial No. 475,613; published May 22, 1945.
Medicinal white mineral oil. L. Sonneborn Sons, Inc. 418,432; Dec. 18.
Mercurial diuretics. Campbell Products, Inc. 418,384; Dec. 18; Serial No. 484,160; published Sept. 25, 1945.
Mineral oil, U. S. P. white. L. Sonneborn Sons, Inc. 418,402; Dec. 18; Serial No. 484,979; published Oct. 9, 1945.
Oil, Cod-liver. Waterbury Chemical Company. 49,086; re-renewed Jan. 23, 1946. O. G. Dec. 18.
Perfume, cologne, toilet water, etc. J. L. Priess. 418,352; Dec. 18; Serial No. 481,714; published Oct. 2, 1945.
Perfumes, cologne, toilet water, etc. Lucien LeLong, Inc. 418,335; Dec. 18; Serial No. 474,416; published Oct. 2, 1945.
Perfumes, toilet waters, face powder, etc. Coty, Inc. 204,179; renewed Oct. 13, 1945. O. G. Dec. 18.
Photographic chemicals. E. Elston. 418,396; Dec. 18; Serial No. 484,673; published Oct. 9, 1945.
Polymers, Alkanolamine carbonate. Mallinckrodt Chemical Works. 418,385; Dec. 18; Serial No. 484,209; published Oct. 2, 1945.
Powder, hand cream, lipstick, etc., Face. Consolidated Cosmetics. 418,380; Dec. 18; Serial No. 484,010; published Oct. 9, 1945.
Powder, Toilet. Jay Thorpe, Inc. 206,812; renewed Dec. 8, 1945. O. G. Dec. 18.
Preparation for increasing blood fat levels and altering sex characteristics in poultry and animals. White Laboratories, Inc. 418,393; Dec. 18; Serial No. 484,511; published Oct. 2, 1945.
Preparation for the cure of indigestion, dyspepsia, sick stomach, etc. William R. Warner & Co. 48,899; re-renewed Jan. 16, 1946. O. G. Dec. 18.
Preparation for treatment of coughs, colds, whooping-cough affections, etc. E. E. Sutherland Medicine Co. 48,951; re-renewed Jan. 16, 1946. O. G. Dec. 18.
Preservative, Liquid wood. M. Rubenstein. 418,343; Dec. 18; Serial No. 479,445; published Oct. 2, 1945.
Protein, Chemically modified corn. Corn Products Refining Company. 418,345; Dec. 18; Serial No. 480,314; published Oct. 2, 1945.
Remedy for corns and calli. E. Hixson. 203,495; renewed Sept. 22, 1945. O. G. Dec. 18.
Remedy for rheumatism and rheumatic affections. William R. Warner & Co. 49,137; re-renewed Jan. 23, 1946. O. G. Dec. 18.
Rouge. Coty, Inc. 208,061–2; renewed Jan. 19, 1946. O. G. Dec. 18.
Shampoo. Kaktine Company. 418,392; Dec. 18; Serial No. 484,408; published Oct. 9, 1945.
Shampoo. L. Napolitan. 418,337; Dec. 18; Serial No. 476,477; published Oct. 2, 1945.
Skin treating, Liquid. E. P. Martini. 418,321; Dec. 18; Serial No. 461,000; published Sept. 21, 1943.
Sulfaquanidine-niacin preparation. Lederle Laboratories, Inc. 418,390; Dec. 18; Serial No. 484,311; published Oct. 2, 1945.
Sulfathiazole preparation. Lederle Laboratories, Inc. 418,389; Dec. 18; Serial No. 484,310; published Oct. 2, 1945.
Toilet preparations. "Peau d'Or" Sales Corporation. 418,439; Dec. 18.
Tonic, Hair. Chesebrough Manufacturing Company Consolidated. 418,398–9; Dec. 18; Serial Nos. 484,824–5; published Oct. 2, 1945.

### CLASS 9

Dies for private use. F. T. Huntington. 418,323; Dec. 18; Serial No. 467,341; published Oct. 9, 1945.
Salutes, Scare away. Hitt Fireworks Company. 418,372; Dec. 18; Serial No. 483,319; published Oct. 9, 1945.

### CLASS 12

Asphalt felt. Ruberoid Co. 418,413; Dec. 18.
Bituminous compound. Quigley Furnace Specialties Company, Inc. 206,244; renewed Nov. 24, 1945. O. G. Dec. 18.
Cement, Portland. Helderberg Cement Co. 49,886; re-renewed Feb. 20, 1946. O. G. Dec. 18.

### CLASS 13

Fence, Wire. Page Steel & Wire Company. 205,848; renewed Nov. 17, 1945. O. G. Dec. 18.
Hangers and door track, Door. Starline Inc. 418,391; Dec. 18; Serial No. 484,329; published Oct. 9, 1945.
Holders, Metal Christmas tree. J. A. Freel. 418,350; Dec. 18; Serial No. 482,485; published Oct. 9, 1945.
Horse-nails. Union Horse Nail Company. 49,964; re-renewed Feb. 27, 1946. O. G. Dec. 18.
Table and cooking hollowware, Enameled metal. "Colos" International Company for Commerce and Industry, Inc. 418,375; Dec. 18; Serial No. 483,467; published Oct. 9, 1945.





Valves, Drain. Bendix-Westinghouse Automotive Air Brake Company. 418,403; Dec. 18; Serial No. 485,000; published Oct. 9, 1945.

### CLASS 14

Alloy, Ferrous metal. N. A. Woodworth Company. 418,383; Dec. 18; Serial No. 484,069; published Oct. 2, 1945.
Alloys, Non-ferrous. Lumen Bearing Company. 49,950; re-renewed Feb. 27, 1946. O. G. Dec. 18.
Castings and forgings, Unfinished or partly finished or semifabricated. T. R. Gardiner. 418,325; Dec. 18; Serial No. 469,810; published Oct. 2, 1945.
Metals, cored and solid bars, gear blanks, etc., Bearing. Sumet Corporation. 418,356; Dec. 18; Serial No. 482,402; published Oct. 2, 1945.

### CLASS 15

Petroleum and products of petroleum. Standard Oil Company. 204,879–80; renewed Oct. 27, 1945. O. G. Dec. 18.

### CLASS 16

Agents for pigmented coating materials, Dispersing. Nuodex Products Co., Inc. 418,350; Dec. 18; Serial No. 481,122; published Oct. 9, 1945.
Coatings, Protective floor. Tremco Manufacturing Company. 418,382; Dec. 18; Serial No. 484,067; published Oct. 2, 1945.
Compound, Permanently elastic. Tremco Manufacturing Company. 418,416; Dec. 18.
Paints, Powdered. W. H. Kemp Co. 46,559; re-renewed Sept. 26, 1945. O. G. Dec. 18.
Polish-wax, Liquid. W. D. Martineau. 418,414; Dec. 18.
Varnishes. American Varnish Company. 49,960–1; re-renewed Feb. 27, 1946. O. G. Dec. 18.

### CLASS 17

Cigars. General Cigar Co., Inc. 204,265; renewed Oct. 13, 1945. O. G. Dec. 18.

### CLASS 19

Airplanes of all kinds and structural parts thereof. Beech Aircraft Corporation. 418,379; Dec. 18; Serial No. 484,009; published Oct. 9, 1945.
Propellers. G. Annesley. 418,417; Dec. 18.

### CLASS 21

Electric safety-fuses and parts thereof and mountings and inclosures therefor. D. & W. Fuse Co. 48,439; re-renewed Dec. 26, 1945. O. G. Dec. 18.
Electric switch cabinets; electric knockout boxes; etc. Columbian Steel Tank Company. 418,422; Dec. 18.
Electrical conductors, and especially asbestos-covered insulated electrical conductors, Insulated. D. & W. Fuse Co. 46,764; re-renewed Oct. 10, 1945. O. G. Dec. 18.
Electrical cord, insulated electric wire and flexible tubing. J. F. Mattimore. 418,421; Dec. 18.
Electrical switches, relays, solenoids, etc. Essex Wire Corporation. 418,361; Dec. 18; Serial No. 482,567; published Oct. 9, 1945.
Heaters and electric irons, Electric space. Birtman Electric Company. 418,322; Dec. 18; Serial No. 465,863; published Oct. 9, 1945.
Heating devices. Electric Steam Radiator Corporation. 418,329; Dec. 18; Serial No. 471,793; published Oct. 9, 1945.
Lamps, Electrical. W. L. Garberding. 418,334; Dec. 18; Serial No. 474,407; published Oct. 9, 1945.
Radio communication transmitters and receivers. Wilcox Electric Company, Inc. 418,347; Dec. 18; Serial No. 480,810; published Oct. 9, 1945.
Radio receivers and radio transmitters. Panoramic Radio Corporation. 418,327; Dec. 18; Serial No. 471,279; published Oct. 9, 1945.
Switches, Safety. C. D. Spracher. 418,354; Dec. 18; Serial No. 482,222; published Oct. 9, 1945.
Telephones, radio frequency crystals and short wave telephone transmitters and receivers, Paratroop radio. Higgins Laboratories, Inc. 418,344; Dec. 18; Serial No. 479,480; published Oct. 9, 1945.
Wire, electric cords, electric insulating tubing, etc., Electric insulated. A. H. Surprenant. 418,362; Dec. 18; Serial No. 482,715; published Oct. 9, 1945.

### CLASS 23

Cleaners of the water actuated type, Drain. H. R. Basford Co. 418,371; Dec. 18; Serial No. 483,300; published Oct. 9, 1945.
Hooks, Packing. Crane Packing Company. 418,410; Dec. 18.
Horse-powers; windlasses; vises; etc. Flint & Walling Mfg. Company. 209,509; renewed Feb. 23, 1946. O. G. Dec. 18.
Injectors. Lincoln Engineering Company. 418,412; Dec. 18.
Lawn-mowers. A. B. Case. 50,038; re-renewed Feb. 27, 1946. O. G. Dec. 18.
Milling-cutters. Standard Tool Company. 49,922; re-renewed Feb. 20, 1946. O. G. Dec. 18.
Polishing and smoothing machines and parts thereof, Motor operated floor. Electric Sprayit Co. 418,424; Dec. 18.
Reamers. Standard Tool Company. 49,982; re-renewed Feb. 27, 1946. O. G. Dec. 18.
Sharpening machines, Knife. Simplex Cloth Cutting Machine Company. 418,349; Dec. 18; Serial No. 481,029; published Oct. 9, 1945.
Taps. Standard Tool Company. 49,983; re-renewed Feb. 27, 1946. O. G. Dec. 18.
Tools, Metal cutting. Neico Tool Co., Inc. 418,358; Dec. 18; Serial No. 482,437; published Oct. 9, 1945.
Twist-drills. Standard Tool Company. 49,921; re-renewed Feb. 20, 1946. O. G. Dec. 18.
Vibrators for shaking fluid containers and the like, Motor operated. Electric Sprayit Co. 418,425; Dec. 18.
Wrenches. J. H. Williams & Co. 209,075; renewed Feb. 16, 1946. O. G. Dec. 18.

### CLASS 26

Computing apparatus, Weight and balance. Transcontinental & Western Air, Inc. 418,407–8; Dec. 18.
Films, still and movie cameras, and projectors and tripods, Sensitized photograph. E. Elston. 418,395; Dec. 18; Serial No. 484,672; published Oct. 9, 1945.
Temperature measuring instruments and parts thereof, Electrical. Illinois Testing Laboratories, Inc. 418,340; Dec. 18; Serial No. 477,699; published Oct. 9, 1945.
Thermometer-tubes. Buffalo Dental Manufacturing Company. 47,788; re-newed Nov. 21, 1945. O. G. Dec. 18.

### CLASS 27

Horological instruments. Post Watch Company. 418,367; Dec. 18; Serial No. 483,030; published Oct. 9, 1945.
Watches, watchcases, and parts of watches. A. Wittnauer Co. 204,440; renewed Oct. 20, 1945. O. G. Dec. 18.

### CLASS 31

Refrigerators and cold plates. Dole Refrigerating Company. 418,440; Dec. 18.

### CLASS 37

Paper, Florists' crêpe. Tuttle Press Company. 209,486; renewed Feb. 23, 1946. O. G. Dec. 18.
Paper, Typewriter. W. S. Tuttle. 209,457; renewed Feb. 23, 1946. O. G. Dec. 18.
Seats and covers for commodes, bedpans, and toilets, Sanitary. E. M. Howell. 202,747; renewed Sept. 1, 1945. O. G. Dec. 18.

### CLASS 38

Publications, Mathematical. E. T. Frankel. 201,234; renewed July 21, 1945. O. G. Dec. 18.
Publications, Periodical. High School Teacher Company. 207,583; renewed Jan. 5, 1946. O. G. Dec. 18.

### CLASS 39

Aprons. Bernhard Ulmann Co. Inc. 209,087; renewed Feb. 16, 1946. O. G. Dec. 18.
Belts for outer wear. Stelzer Bros., Inc. 418,427; Dec. 18.
Collars. Cluett, Peabody & Co., Inc. 209,340; renewed Feb. 23, 1946. O. G. Dec. 18.
Garment, known as sport blouse. Flannocrat Mfg. Co. 203,008; renewed Sept. 8, 1945. O. G. Dec. 18.
Hats, Men's. Schoble Hats. 418,415; Dec. 18.
Linen piece goods, textile bed sheets, pillowcase, etc. Abraham & Straus, Inc. 202,560; renewed Aug. 25, 1945. O. G. Dec. 18.
Overcoats, suits, trousers, etc., Men's and boys'. Rogers Peet Company. 418,430; Dec. 18.
Shoes, Leather. Peters Shoe Co. 46,043; re-renewed Sept. 5, 1945. O. G. Dec. 18.
Shoes of leather, Men's. International Shoe Company. 207,124; renewed Dec. 22, 1945. O. G. Dec. 18.
Suits, Boys'. Hub of Baltimore. 206,578; renewed Dec. 8, 1945. O. G. Dec. 18.
Underwear. Cluett, Peabody & Co., Inc. 209,264; renewed Feb. 16, 1946. O. G. Dec. 18.

### CLASS 40

Braids, bindings and trimmings, Plain and ornamental. Fletcher Manufacturing Company. 49,187; re-renewed Jan. 30, 1946. O. G. Dec. 18.
Buttons, snap fasteners, hooks and eyes, Pearl. Rice-Stix Dry Goods Company. 209,546; renewed Feb. 23, 1946. O. G. Dec. 18.
Needles, hat pins, knitting pins, etc. Morris & Yeomans Ltd. 418,342; Dec. 18; Serial No. 478,928; published Oct. 9, 1945.

### CLASS 42

Cotton piece goods. Massachusetts Cotton Mills. 47,658; re-renewed Nov. 14, 1945. O. G. Dec. 18.
Cotton piece goods. Massachusetts Cotton Mills. 48,639; re-renewed Jan. 9, 1946. O. G. Dec. 18.
Knitted fabrics in the piece. Beaunit Mills, Inc. 418,330; Dec. 18; Serial No. 471,849; published June 19, 1945.
Linen piece goods, textile bed sheets, pillowcases, etc. Abraham & Straus, Inc. 202,560; renewed Aug. 25, 1945. O. G. Dec. 18.
Piece goods made of natural or synthetic fibers treated with plastics or synthetic resins. Firestone Tire & Rubber Company. 418,324; Dec. 18; Serial No. 468,324; published Apr. 17, 1945.

Sheets, pillowcases, and piece goods of linen, cotton, etc. Lamport Mfg. Supply Co., Inc. 205,172; renewed Nov. 3, 1945. O. G. Dec. 18.
Suitings for men and boys, Cloth. Thos. Oakes & Co. 49,240; re-renewed Jan. 30, 1046. O. G. Dec. 18.
Textile fabric, piece goods. D. N. & E. Walter & Co. 418,418; Dec. 18.
Woolen goods in the piece. Worumbo Manufacturing Company. 209,494; renewed Feb. 23, 1946. O. G. Dec. 18.

CLASS 43

Thread, Cotton. Clark Mile-End Spool Cotton Co. 49,298; re-renewed Jan. 30, 1946. O. G. Dec. 18.
Yarn. R. Wolfenden & Sons. 418,360; Dec. 18; Serial No. 482,562; published Oct. 9, 1945.
Yarn spun from mixtures of rayon and fur, etc. Unique Fibers, Inc. 418,401; Dec. 18; Serial No. 484,921; published Oct. 9, 1945.
Yarns, Woolen. Bedford Yarn Co. 418,436; Dec. 18.

CLASS 44

Bandages (medical and surgical), Crepe. Grout and Company, Limited. 203,942; renewed Sept. 29, 1945. O. G. Dec. 18.

CLASS 46

Bread. A. T. Sandison. 202,661; renewed Sept. 1, 1945. O. G. Dec. 18.
Bread, rolls, cakes, etc. Old Rip Van Winkle Grist Mill, Inc. 418,351; Dec. 18; Serial No. 481,155; published Oct. 9, 1945.
Candy. Euclid Underwriting Corporation. 418,404; Dec. 18; Serial No. 485,634; published Oct. 9, 1945.
Candy. M & M Limited. 418,332; Dec. 18; Serial No. 474,291; published May 22, 1945.
Canned beans. Chas G. Summers Jr., Incorporated. 418,355; Dec. 18; Serial No. 482,302; published Oct. 2, 1945.
Canned fruits and canned vegetables, dried dates, etc. International Importing Company. 418,341; Dec. 18; Serial No. 478,873; published Oct. 9, 1945.
Canned fruits and vegetables. Bailey-Pitzer Company. 418,386; Dec. 18; Serial No. 484,227; published Oct. 9, 1945.
Canned fruits, canned vegetables, canned fish, etc. Scaramelli & Company, Incorporated. 208,427; renewed Feb. 2, 1946. O. G. Dec. 18.
Canned vegetables. Albert W. Sisk & Sons. 418,333; Dec. 18; Serial No. 474,302; published Oct. 9, 1945.
Cheese, creamery butter, oleomargarine, etc. Western Grocer Company. 202,907; renewed Sept. 8, 1945. O. G. Dec. 18.
Crackers and cakes. Pacific Coast Biscuit Company. 206,326; renewed Jan. 26, 1946. O. G. Dec. 18.
Dextrose. Northwest Chemurgy Co-operative. 418,433; Dec. 18.
Flour, Wheat. Federal Mill & Elevator Co., Inc. 202,977; renewed Sept. 8, 1945. O. G. Dec. 18.
Flour, Wheat. Piedmont Mills, Inc. 418,426; Dec. 18.
Flour, Wheat. Southeastern Mills, Inc. 418,374; Dec. 18; Serial No. 483,454; published Oct. 9, 1945.
Fruits, Fresh citrous. Fullerton Mutual Orange Association. 209,353; renewed Feb. 23, 1946. O. G. Dec. 18.
Honey. M. Ams, Inc. 418,423; Dec. 18.
Meats and meat products. O. Stahl, Inc. 204,511-12; renewed Oct. 20, 1945. O. G. Dec. 18.
Meats, Smoked. F. A. Ferris & Company. 207,365; renewed Dec. 29, 1945. O. G. Dec. 18.
Oleomargarine. Shedd-Bartush Foods, Inc. 418,331; Dec. 18; Serial No. 472,127; published Oct. 2, 1945.
Pineapples in their natural state. Palo Alto Orchards Company. 207,324; renewed Dec. 29, 1945. O. G. Dec. 18.
Shrimp, Fresh frozen. J. Grasso & Son. 418,411; Dec. 18.
Stock feed, Prepared. Moorman Manufacturing Company. 207,848; renewed Jan. 12, 1946. O. G. Dec. 18.
Wheat flour. Loudonville Milling Company. 208,877; renewed Feb. 9, 1946. O. G. Dec. 18.
Wheat middlings. Moseley & Motley Milling Co. 204,043; renewed Oct. 6, 1945. O. G. Dec. 18.

CLASS 48

Beverages, Malt. Liebmann Breweries, Inc. 208,710; renewed Feb. 9, 1946. O. G. Dec. 18.

CLASS 50

Fabrics, Treated textile. Patent Fabric Co. 418,419; Dec. 18.

# LIST OF DESIGN PATENTEES

Adel Precision Products Corp.: *See*—
Storm, Frederick K., assignor.
Analyte Instruments, Inc.: *See*—
Reinshield, Frederic C., assignor.
Armour Research Foundation: *See*—
Camras, Marvin, assignor.
Baker-Raulang Company, The: *See*—
Walker, George W., assignor.
Barton, George G., assignor to Hartmann Trunk Company, Racine, Wis. Hand luggage case. 143,179; Dec. 18.
Batt, Joseph S., University City, Mo. Advertising sign board. 143,180; Dec. 18.
Beaver Pipe Tools, Inc.: *See*—
Phillis, William A., assignor.
Benton Glass Company: *See*—
Colef, Sara, assignor.
Brodeur, Jules, New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Cosmetic color selection stand. 143,181; Dec. 18.
Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Combination magnetic recorder and reproducer or similar article. 143,182; Dec. 18.
Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recorder or similar article. 143,183; Dec. 18.
Chuka, Alma: *See*—
Poggi, A., Jordan, and Chuka.
Cohen, Sidney, New York, N. Y. Suit. 143,184; Dec. 18.
Cohen, Sidney, New York, N. Y. Suit. 143,185; Dec. 18.
Cohen, Sidney, New York, N. Y. Suit. 143,186; Dec. 18.
Colef, Sara, assignor to Benton Glass Company, Benton Harbor, Mich. Picture frame. 143,187; Dec. 18.
Colef, Sara, assignor to Benton Glass Company, Benton Harbor, Mich. Picture frame. 143,188; Dec. 18.
Colef, Sara, assignor to Benton Glass Company, Benton Harbor, Mich. Picture frame. 143,189; Dec. 18.
Colef, Sara, assignor to Benton Glass Company, Benton Harbor, Mich. Picture frame. 143,190; Dec. 18.
Coro, Inc.: *See*—
Katz, Adolph, assignor.
Coty, Inc.: *See*—
Brodeur, Jules, assignor.
Dentz, Marie M., New York, N. Y. Handbag. 143,191; Dec. 18.
Drogin, Martin M., Philadelphia, Pa., assignor to Freshmaster Corporation, Newark, N. J. Display cabinet. 143,192; Dec. 18.
Drogin, Martin M., Philadelphia, Pa., assignor to Freshmaster Corporation, Newark, N. J. Display cabinet. 143,193; Dec. 18.
Finkelstein, Nathan, New York, N. Y. Jacket. 143,194; Dec. 18.
Finkelstein, Nathan, New York, N. Y. Jacket. 143,195; Dec. 18.
Fleischhauer, Ethel L., La Fayette, Ind. Bath tub. 143,204; Dec. 18.
Frederics, Fred, New York, N. Y. Display stand or similar article. 143,202; Dec. 18.
Frederics, Fred, New York, N. Y. Display stand or similar article. 143,203; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,196; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,197; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,198; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,199; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,200; Dec. 18.
Freedman, Jules, New York, N. Y. Suit. 143,201; Dec. 18.
Freshmaster Corporation: *See*—
Drogin, Martin M., assignor.
Funderburk, Otis C., Weston, Mass. Smoker's stand. 143,205; Dec. 18.
Gerson, Samuel L., Millville, N. J. Tumbler. 143,206; Dec. 18.
Greene, Clarence Kirk, North Hollywood, assignor to Tripplett & Barton Inc., Burbank, Calif. Pedestal for stamping machine. 143,207; Dec. 18.
Halpern, Joseph, New York, N. Y. Two-piece hair ornament. 143,208; Dec. 18.
Hartmann Trunk Company: *See*—
Barton, George G., assignor.
Jordan, Doris: *See*—
Poggi, A., Jordan, and Chuka.
Karp, Sol, New York, N. Y. Coat or similar article. 143,209; Dec. 18.
Karp, Sol, New York, N. Y. Coat or similar article. 143,210; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,211; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,212; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,213; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,214; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,215; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,216; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,217; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,218; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,219; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,220; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,221; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 143,222; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or similar article. 143,223; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or similar article. 143,224; Dec. 18.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring. 143,225; Dec. 18.
Kaufman, Louis, New York, N. Y. Handbag. 143,226; Dec. 18.
Kaufman, Louis, New York, N. Y. Handbag. 143,227; Dec. 18.
Kavaler, Bernard, Co., et al.: *See*—
Solomon, Robert, assignor.
Kavaler, Bernard, et al.: *See*—
Solomon, Robert, assignor.
Levering, Jack, Tulsa, Okla. Combination utility knife and bayonet. 143,228; Dec. 18.
Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co. Inc., Bloomfield, N. J. Tip lid for smoker's stand. 143,229; Dec. 18.
Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co. Inc., Bloomfield, N. J. Smoker's stand. 143,230; Dec. 18.
Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co. Inc., Bloomfield, N. J. Urn. 143,231; Dec. 18.
Master Lock Company: *See*—
Soref, Harry E., assignor.
Miller, Willis Harold, Dallas, Tex. Lamp or similar article. 143,232; Dec. 18.
Moloney, Raymond T.: *See*—
Nelson, Nels A., assignor.
Moore, James Gordon, Los Angeles, Calif. Combined bottle opener and cutter or similar article. 143,233; Dec. 18.
Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,234; Dec. 18.
Morrow, Frank, Johnston, R. I. Earring. 143,235; Dec. 18.
Nelson, Nels A., assignor to Raymond T. Moloney, Chicago, Ill. Game cabinet. 143,236; Dec. 18.
Pares, Thomas A., Milwaukee, Wis. Device for teaching lacing. 143,237; Dec. 18.
Pfefferkorn, Frederick F., Washington, D. C. Handle cover bracket. 143,238; Dec. 18.
Phillis, William A., assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Pipe threading tool. 143,239; Dec. 18.
Poggi, Amelia, Doris Jordan, and Alma Chuka, Hicksville, N. Y. Deck of playing cards. 143,240; Dec. 18.
Porter, Vernon C., New York, N. Y. Folding combination bottle and can opener. 143,241; Dec. 18.
Reinshield, Frederic Carl, Andover, Mass., assignor to Analyte Instruments, Inc., Bloomfield, N. J. Illuminable display device. 143,242; Dec. 18.
Samstag, Anne, Bronxville, N. Y. Textile fabric or similar article. 143,243; Dec. 18.
Smokador Manufacturing Co. Inc.: *See*—
Mankki, Onnie, assignor.
Solomon, Robert, assignor to Bernard Kavaler, New York, N. Y., doing business as Bernard Kavaler Co. Fabric. 143,244; Dec. 18.
Soref, Harry E., assignor to Master Lock Company, Milwaukee, Wis. Padlock. 143,245; Dec. 18.
Soref, Harry E., assignor to Master Lock Company, Milwaukee, Wis. Padlock. 143,246; Dec. 18.
Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Whipper blade or similar article. 143,247; Dec. 18.

Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Kitchen utensil handle. 143,248; Dec. 18.
Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Kitchen utensil handle. 143,249; Dec. 18.
Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Kitchen utensil handle. 143,250; Dec. 18.
Trippiett & Barton Inc.: *See*—
Greene, Clarence K., assignor.
Vivaudou, Jean E. New York, N. Y. Handkerchief case. 143,251; Dec. 18.
Vivaudou, Jean E., New York, N. Y. Sachet bag. 143,252; Dec. 18.
Vivaudou, Jean E., New York, N. Y. Sachet bag. 143,253; Dec. 18.
Vivaudou, Jean E., New York, N. Y. Sachet case. 143,254; Dec. 18.
Vivaudou, Jean E., New York, N. Y. Herb bag. 143,255; Dec. 18.
Walker, George W., Detroit, Mich., assignor to The Baker-Raulang Company, Cleveland, Ohio. Vehicle body. 143,256; Dec. 18.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Agriculture, of the United States of America, Secretary of: *See*—
Ford, Tirey Foster, assignor.
Air-Maze Corporation: *See*—
Walton, George M., assignor.
Aklin, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Rapid objective. 2,391,114; Dec. 18.
Allan, John, Saint Kilda, Victoria, Australia. Stepladder, trestle, and the like. 2,391,216; Dec. 18.
Allen, Wayne H., Los Angeles, Calif., assignor to General Electric Company. Lubricating system for aircraft superchargers. 2,391,000; Dec. 18.
Allied Chemical & Dye Corporation: *See*—
Reimers, Frederick E., assignor.
Allied Control Company, Inc.: *See*—
Horman, John H., assignor.
Allied Railway Equipment Company: *See*—
Moline, Carl R., assignor.
Allis-Chalmers Manufacturing Company: *See*—
Harrer, Paul H., assignor.
American Car and Foundry Company: *See*—
Dilley, June D., assignor.
American Cyanamid Company: *See*—
Ashley, Kenneth D., assignor.
American Machine and Foundry Company: *See*—
Jensen, Thormod, assignor.
American Optical Company: *See*—
Tillyer, Edgar D., assignor.
American Ore Reclamation Company: *See*—
Shallock, Edward W., assignor.
American Viscose Corporation: *See*—
Knight, Edward, assignor.
Anchor, Ella: *See*—
Anchor, James, assignor.
Anchor, James, assignor to Ella Anchor, Detroit, Mich. Food dispensing system and apparatus. 2,391,287; Dec. 18.
Anderson, Gordon R., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Conductor connection for electrical machines. 2,391,115; Dec. 18.
Anglo California National Bank of San Francisco, The, trustee: *See*—
Hansgirg, Fritz J., assignor.
Rademaker, John C., assignor.
Armour and Company: *See*—
Oswald, E. C., and Lewis, assignors.
Arnoldi, Paul, Brighton, Ontario, Canada. Secondary battery. 2,391,001; Dec. 18.
Ashley, Kenneth D., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing granular adsorbent. 2,391,116; Dec. 18.
Automotive Maintenance Machinery Co.: *See*—
Mitchell, Wallace F., assignor.
Ayers, Fred L., Waltham, Mass. Inner sole and making the same. 2,391,217; Dec. 18.
Ayres, Charles E., Phillips, Tex., assignor to Phillips Petroleum Company. Production of butadiene. 2,391,117; Dec. 18.
B. L. Electric Company: *See*—
Rau, D., and Peters, assignors.
Babcock & Wilcox Company, The: *See*—
Trainer, James E., assignor.
Bacon, Reginald G. R., Manchester, and R. B. Richards, Northwich, England, assignors to Imperial Chemical Industries Limited. Polymerisation and interpolymerization of ethylene. 2,391,218; Dec. 18.
Baker, David B., Riverside, and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Frame and draw-bar structure for crawler tractors. 2,391,002; Dec. 18.
Barlow, William H., Waterbury, Conn., assignor to Scovill Manufacturing Company. Stud member for quick detachable fastening devices. 2,391,288; Dec. 18.
Bartlett, Edward P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acids. 2,391,219; Dec. 18.
Barton, Louis R., Windsor, Conn. Pigments and paints and making same. 2,391,118; Dec. 18.
Beagles, Rufus J., Fort Pierce, Fla. Ignition lock and switch. 2,391,119; Dec. 18.
Beaver, John F., Jr., Dayton, Ohio. Bright copper plating. 2,391,289; Dec. 18.
Bechman, William O.: *See*—
Baker, D. B., and Bechman.
Beeh, Louis, Longmeadow, Mass. Injection valve spark plug. 2,391,220; Dec. 18.
Beeh, Louis, Longmeadow, Mass. Multiple pump. 2,391,221; Dec. 18.
Beldue, William J.: *See*—
Tuttle, W. R., and Beldue.
Bell, Charles C., Marblehead, and W. V. Goodhue, Ipswich, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Gun sighting device. 2,390,980; Dec. 18.
Bell Laboratories, Incorporated: *See*—
Blattner, David G., assignor.
Bell Telephone Laboratories, Incorporated: *See*—
Rasmussen, Oswald E., assignor.
Shafer, Ira C., Jr., assignor.
Sprague, Vinton G., assignor.
Teal, Gordon K., assignor.
Bendix Aviation Corporation: *See*—
Chambers, Allan C., assignor.
Gregg, David, assignor.
Hermansen, Evald, assignor.
Nardone, Romeo M., assignor.
Price, Harold W., assignor.
Berger, Knute, Seattle, Wash. Hawsepipe. 2,391,290; Dec. 18.
Berthelmann, Arthur B., Madison, Wis. Spring means. 2,391,120; Dec. 18.
Beste, Harold E., East Rutherford, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Telegraph code recorder. 2,391,082; Dec. 18.
Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Timing apparatus. 2,390,981; Dec. 18.
Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Electric control circuit. 2,390,982; Dec. 18.
Bixby, Kenneth R., Galesburg, Ill. Screen. 2,390,983; Dec. 18.
Blakeney, Francis M.: *See*—
Ring, Ernest A., assignor.
Blattner, David G., Mountain Lakes, N. J., assignor to Bell Laboratories, Incorporated, New York, N. Y. Making electromagnetic devices. 2,391,222; Dec. 18.
Bloss, Herman, Shelton, assignor to The H. B. Ives Company, New Haven, Conn. Latch for screen doors and the like. 2,390,984; Dec. 18.
Bollo, Francis G., Berkeley, and J. R. Tomlinson, Walnut Creek, assignors to Shell Development Company, San Francisco, Calif. Fuel control system for internal-combustion engines. 2,391,291; Dec. 18.
Border, Samuel L.: *See*—
Miller, C. A., and Border.
Borg-Warner Corporation: *See*—
Carlson, Raymond A., assignor.
Bowman, Wade W., assignor to Frostidrink Inc., New York, N. Y. Carbonating apparatus. 2,391,003; Dec. 18.
Boyer, James B., Washington, D. C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner control system. 2,390,985; Dec. 18.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Welding device. 2,391,292; Dec. 18.
Breuer, Frederick W., Haverford, Pa., assignor to The United Gas Improvement Company. Refining butadiene contaminated with monovinylacetylene. 2,391,004; Dec. 18.
Brickner-Kropf Machine Company, et al.: *See*—
Bunker, V. W., De Young, and Kropf, assignors.
Bryan, John C., La Canada, Calif. Electric motor. 2,391,005; Dec. 18.
Bryant, Donald D., Huntington, W. Va. Dust guard. 2,391,121; Dec. 18.
Bryce, George, West Kilbride, and V. H. Williams, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited. Transport of aqueous emulsions of liquid explosives. 2,391,006; Dec. 18.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Resilient lubricant seal. 2,391,007; Dec. 18.
Bucko, John, Gary, Ind. Torch supporting arm for oxy-acetylene cutting machines. 2,391,008; Dec. 18.
Bunker, Vincent W., and M. De Young, Grand Rapids, and H. W. Kropf, Muskegon Heights, assignors of one-half to Gallmeyer & Livingston Company, Grand Rapids, and one-half to Brickner-Kropf Machine Company, Muskegon Heights, Mich. Grinding wheel dresser. 2,391,122; Dec. 18.
Burkhalter, Robert R.: *See*—
Peterson, Carl D.
Burns, Frank D., Muskegon, Mich. Boat cover. 2,390,986; Dec. 18.
Burrows, Allen, Providence, R. I. Thread cutting tool. 2,391,223; Dec. 18.

Burt, F. N., Company, Inc.: *See*—
Dickerman, Harry K., assignor.

Byers, John R., Jr.: *See*—
Dickey, J. B., and Byers.
McNally, J. G., and Byers.

Cabrera, José G., Habana, Cuba. Folding cover for typewriting machines or the like. 2,390,987; Dec. 18.

Calderazzo, Dominick J., Dolgeville, N. Y. Shoe. 2,391,083; Dec. 18.

California Spray-Chemical Corporation: *See*—
De Laney, Colton, assignor.

Calingaert, George, H. Soroos, and H. Shapiro, Detroit, Mich., assignors to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development. Deleading gasoline. 2,390,988; Dec. 18.

Campbell, Donald L.: *See*—
Hillman, C. A., and Campbell.

Cargill, Incorporated: *See*—
Hirsch, Sabine, assignor.

Carliss, Oswald S., and C. G. Roper, Fairfield, assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Variable speed-and-direction operated pilot finder. 2,391,123; Dec. 18.

Carlson, Raymond A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Clutch. 2,391,124; Dec. 18.

Carmody, Don R., Newton, Iowa, assignor to Standard Oil Company, Chicago, Ill. Knock-resistant motor fuel. 2,391,084; Dec. 18.

Carmody, William H., Springfield, Ohio, assignor to Pennsylvania Industrial Chemical Corporation, Clairton, Pa. Terpene resins. 2,391,293; Dec. 18.

Carpenter, Charles H., Kansas City, Mo. Commodity conveying apparatus. 2,391,125; Dec. 18.

Carter, Alfred M., Galion, Ohio, assignor to Carter Machine Company, Ltd. Apparatus for lifting and transferring materials. 2,391,224; Dec. 18.

Carter Machine Company, Ltd.: *See*—
Carter, Alfred M., assignor.

Carter, Samuel C., Los Angeles, Calif. Valve. 2,391,126; Dec. 18.

Carver, Emmett K., assignor to Eastman Kodak Company, Rochester, N. Y. Antihalation coatings. 2,391,127; Dec. 18.

Casella, Secondo L., assignor to Morey Machinery Co., Inc., New York, N. Y. Automatic tool block. 2,390,989; Dec. 18.

Cauley, Stephen P., Jackson Heights, and V. L. Shipp, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Recovery of phenolic materials. 2,391,128; Dec. 18.

Celanese Corporation of America: *See*—
Horback, William, assignor.

Chain Belt Company: *See*—
McKnight, Lynn B., assignor.

Chambers, Allan C., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake mechanism. 2,391,129; Dec. 18.

Chatterjea, Prafulla K., and C. T. Scully, assignors to Standard Telephones and Cables Limited, London, England. Thermionic valve receiving circuits. 2,391,130; Dec. 18.

Clark, Alice L., Mill Valley, Calif. Doll. 2,391,131; Dec. 18.

Clark, Howard L., Ballston Lake, N. Y., assignor to General Electric Company. Spark generator for spectrographic analyses. 2,391,225; Dec. 18.

Clark, Stanley F.: *See*—
Field, Patrick H., assignor.

Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Paster for cigar binders and the like. 2,391,294; Dec. 18.

Clayton, Benjamin, Houston, Tex., assignor, by mesne assignments, to Refining, Unincorporated. Refining oil and for producing soap. 2,390,990; Dec. 18.

Cleveland Graphite Bronze Company, The: *See*—
Schaefer, Ralph A., assignor.

Cleveland Worm & Gear Company, The: *See*—
Noble, Warren, assignor.

Clifford, Albert M., Stow, and C. E. Gleim, assignors to Wingfoot Corporation, Akron, Ohio. Preparing a cyclic dicarboxylic acid anhydride. 2,391,226; Dec. 18.

Clifford, Albert M., Stow, Ohio, and C. F. Winans, Edgewood, Pa., assignors to Wingfoot Corporation, Akron, Ohio. Solvent extraction of synthetic latices. 2,391,227; Dec. 18.

Clifford, Thomas W., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical projection apparatus. 2,391,132; Dec. 18.

Codish, George, New York, N. Y. Apparatus for making shoe soles. 2,390,991; Dec. 18.

Cole, George A., East Cleveland, Ohio. Cutoff tool. 2,391,133; Dec. 18.

Collom, Cletus J., Detroit, Mich. Timing control system. 2,391,009; Dec. 18.

Compo Shoe Machinery Corporation: *See*—
Crandell, Ervin L., assignor.

Conrad, Eugene J., Columbus, Ohio. Piston ring. 2,391,134; Dec. 18.

Continental Can Company: *See*—
Coyle, John, assignor.
Dukehart, Morton McI., Jr., assignor.
Fink, Henry A., assignor.
Kronquest, Alfred L., assignor.
O'Neil, James H., assignor.
Pearson, Paul E., assignor.
Pearson, P. E., and Treff, assignors.
Punte, William F., assignor.
Schmidt, John E., assignor.
Slosberg, Harry M., assignor.

Cook, John H., Rock Island, Ill. Signaling system. 2,390,992; Dec. 18.

Cotchett, Louis M., Hingham, Mass., assignor to Saco-Lowell Shops, Boston, Mass. Spinning frame. 2,391,135; Dec. 18.

Cotchett, Louis M., Hingham, Mass., assignor to Saco-Lowell Shops, Boston, Mass. Spinning frame creel. 2,391,295; Dec. 18.

Courtis, Joseph W.: *See*—
Komives, L. I., Courtis, and Thomas.

Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Closure fiber containers. 2,391,296; Dec. 18.

Crandell, Ervin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Thermionic oscillator. 2,391,085; Dec. 18.

Crandell, Ervin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Radio frequency motor control. 2,391,086; Dec. 18.

Crane Co.: *See*—
Mueller, Alfred, assignor.

Crompton & Knowles Loom Works: *See*—
Holmes, Elbridge R., assignor.
Turner, Richard G., assignor.
Wakefield, Walter H., assignor.

Curtiss-Wright Corporation: *See*—
Hathorn, Charles E., assignor.
Hutton, James H., assignor.
McWhorter, Charles R., assignor.

Dalin, David, Sodertalje, Sweden. Damper and shutter for regulating the passage of a medium. 2,391,010; Dec. 18.

Daly, John A., assignor to Daly Ticket Company, Collinsville, Ill. Combination miner's check book. 2,391,136; Dec. 18.

Daly Ticket Company: *See*—
Daly, John A., assignor.

Danuser, Jakob, Arlesheim, and R. von Capeller, Riehen, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Monoazo hetero-oxygen compounds. 2,391,137; Dec. 18.

Dauenhauer, Florian F., Santa Rosa, Calif. Stationary type hop picking machine. 2,391,138; Dec. 18.

Davies, Newell A., Burlingame, Calif., assignor to Stauffer Chemical Company. Tartar emetic manufacture. 2,391,297; Dec. 18.

Davis, Frank L., College Point, N. Y. Drive fastener. 2,391,298; Dec. 18.

Day, Lamar L.: *See*—
Day, Leslie, assignor.

Day, Leslie, Chicago, Ill., assignor of one-half to Lamar L. Day, St. George, Staten Island, N. Y. Control system. 2,391,228; Dec. 18.

De Giers, Clarence A., Forest Hills, and A. Wickesser, St. Albans, assignors to The Liquidometer Corporation, Long Island City, N. Y. Temperature control for refrigerator cars. 2,390,993; Dec. 18.

De Laney, Colton, Berkeley, assignor to California Spray-Chemical Corporation, Richmond, Calif. Herbicide. 2,391,299; Dec. 18.

Dentists' Supply Company of New York, The: *See*—
Samir, Jacob A., assignor.

D'Entremont, Franklin R., Lynn, Mass., assignor to General Electric Company. Electric induction apparatus. 2,391,229; Dec. 18.

Dettling, Joseph J., assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for repairing pneumatic tire casings. 2,391,300; Dec. 18.

De Vlieg, Charles B., Detroit, Mich. Method of and apparatus for making impeller wheels. 2,390,994; Dec. 18.

De Young, Martin: *See*—
Bunker, V. W., De Young, and Kropf.

Dickerman, Harry K., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Ammunition carton. 2,391,230; Dec. 18.

Dickey, Joseph B.: *See*—
McNally, J. G., and Dickey.

Dickey, Joseph B., and J. R. Byers, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Anthraquinone compounds. 2,391,011; Dec. 18.

Dickey, Joseph B., Rochester, N. Y., and J. G. McNally, Knoxville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Alkylating arylamines. 2,391,139; Dec. 18.

Dilley, June D., Huntington, W. Va., assignor to American Car and Foundry Company, New York, N. Y. Washer and cotter pin lock. 2,391,140; Dec. 18.

Donlan, Theodore R., Union, and A. Gathman, Elizabeth, N. J., assignors to Standard Oil Development Company. Oil solubilizing compositions. 2,391,087; Dec. 18.

Dour, Nicholas F., Chicago, and V. R. Stenger, Hinsdale, Ill. Reel construction. 2,391,141; Dec. 18.





Drake, Jerry H., assignor to H. M. Herbener, Thomasville, Ga. Toolholder. 2,391,142; Dec. 18.

Dukehart, Morton McI., Jr., New Rochelle, assignor to Continental Can Company, Inc., New York, N. Y. Dispensing container for sterile compresses. 2,391,301; Dec. 18.

Du Mont, Allen B., Laboratories, Inc.: *See*—
Beste, Harold E., assignor.
Goldsmith, Thomas T., Jr., assignor.
Rutherford, Robert E., assignor.

Du Pont, E. I., de Nemours & Company: *See*—
Bartlett, Edward P., assignor.
Peppel, William J., assignor.
Weber, A. G., and Peterson, assignors.

Eastman Kodak Company: *See*—
Aklin, George H., assignor.
Carver, Emmett K., assignor.
Dickey, J. B., and Byers, assignors.
Dickey, J. B., and McNally, assignors.
Gillon, John W., assignor.
Harvey, Douglass C., assignor.
Koch, George J., assignor.
Lane, Gerould T., assignor.
McNally, J. G., and Byers, assignors.
McNally, J. G., and Dickey, assignors.
Minsk, L. M., Weyerts, and McDowell, assignors.
Philips, Harlow D., assignor.
Schubert, A. E., Hintz, and Stettner, assignors.
Seymour, Merrill W., assignor.

Edwards and Company, Inc.: *See*—
Edwards, Robert S., assignor.

Edwards, Robert S., New Canaan, assignor to Edwards and Company, Inc., Norwalk, Conn. Switch operating device. 2,391,231; Dec. 18.

Ertner, August C., assignor to Federal Trading Co., Seattle, Wash. Wrench. 2,391,143; Dec. 18.

Esson, Edwin, assignor to Locke Stove Company, Kansas City, Mo. Heater. 2,391,144; Dec. 18.

Evans, William J., Bulwell, Nottingham, England. Fixing pulleys and the like to shafts. 2,391,302; Dec. 18.

Ewing, Frederick J., Pasadena, R. B. Secor, South Gate, and J. G. Warner, East Los Angeles, assignors to Filtrol Corporation, Los Angeles, Calif. Catalyst and forming catalysts. 2,391,312; Dec. 18.

Eyler, Lawrence J., Dayton, Ohio, assignor to the United States of America, as represented by the Secretary of War. Bomb release. 2,391,012; Dec. 18.

Fairbanks, Morse & Co.: *See*—
Anderson, Gordon R., assignor.

Falkiner, George B. S.: *See*—
Turner, B. H., and Falkiner.

Farrell, Frederick L.: *See*—
Farrell, S. T. and F. L.

Farrell, Sydney T. and F. L., Belmont, Mass. Bolt. 2,391,232; Dec. 18.

Fearey, James E.: *See*—
Huebner, D. W., and Fearey.

Federal Telephone and Radio Corporation: *See*—
McGuigan, William D., assignor.
Prall, James R., assignor.
Rifenbergh, Clare M., assignor.

Federal Trading Co.: *See*—
Ertner, August C., assignor.

Field, Patrick H., Washington, D. C., assignor of one per cent to S. F. Clark, West New Brighton, N. Y., and ninety-nine per cent to M. K. Liebert, Washington, D. C. Projectile. 2,391,303; Dec. 18.

Filtrol Corporation: *See*—
Ewing, F. J., Secor, and Warner, assignors.
Horn, Lee Van, assignor.

Finch Telecommunications, Inc.: *See*—
Finch, William G. H., assignor.

Finch, William G. H., Newtown, Conn., assignor to Finch Telecommunications, Inc., Passaic, N. J. Facsimile recorder. 2,391,145; Dec. 18.

Fink, Henry A., Pelham Manor, assignor to Continental Can Company, New York, N. Y. Blank feeding apparatus. 2,391,304; Dec. 18.

Fink, Raymond: *See*—
Williamson, M. L., and Fink.

Folkers, Karl, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J. Alkaloidal "free" fraction from species of erythrina and its production. 2,391,014; Dec. 18.

Folkers, Karl, Plainfield, and F. Koniuszy, Elizabeth, assignors to Merck & Co., Inc., Rahway, N. J. Physiologically active alkaloids from erythrina species. 2,391,013; Dec. 18.

Folkers, Karl, Plainfield, N. J., and J. Shavel, Jr., Glendale, Long Island, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Alkaloid and producing the same. 2,391,015; Dec. 18.

Folkins, Hillis O., Skokie, and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Production of alkylated aryl compounds. 2,391,146; Dec. 18.

Folts, Ira W., Chicago, Ill. Furnace. 2,390,995; Dec. 18.

Fomo Concentrates, Inc.: *See*—
Northcutt, R. T. and R. T., Jr., assignors.

Food Machinery Corporation: *See*—
Thompson, Albert R., assignor.

Ford, Tirey F., Arlington, Va., assignor to the United States of America, as represented by the Secretary of Agriculture. Coagulation of castilloa latex. 2,390,996; Dec. 18.

Frankwich, Alexander C., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Take-up apparatus. 2,391,088; Dec. 18.

Fredriksson, Joe A., San Francisco, Calif. Game board. 2,391,147; Dec. 18.

Freund, Herman R.: *See*—
Klingberg, E. G., Stadelmann, and Freund.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Reacting propane with olefins. 2,391,148; Dec. 18.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating hydrocarbon containing organically combined fluorine. 2,391,149; Dec. 18.

Friden Calculating Machine Co., Inc.: *See*—
Friden, C. M., and Machado, assignors.
Machado, Anthony B., assignor.

Friden, Carl M., Pleasanton, and A. B. Machado, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Keyboard release mechanism. 2,391,089; Dec. 18.

Frolich, Per K.: *See*—
Kellogg, H. B., and Frolich.

Frostidrink Inc.: *See*—
Bowman, Wade W., assignor.

Fuller, Hardick F., Portland, Oreg. Holder for electrodes and welding rods. 2,390,997; Dec. 18.

Fuller Label & Box Company: *See*—
Monks, Frank E., assignor.

Fulton, Katherine C., et al.: *See*—
Kopf, Robert Y., assignor.

Gale, Leonard, Washington, D. C., assignor to F. Klein, New York, N. Y. Automatic golf ball teeing device. 2,390,998; Dec. 18.

Galeski, Joseph S., Richmond, Va. Plastic eye. 2,391,305; Dec. 18.

Gallmeyer & Livingston Company, et al.: *See*—
Bunker, V. W., De Young, and Kropf, assignors.

Ganter, Francis X., Los Angeles, Calif. Window drape rod hanging means. 2,391,150; Dec. 18.

Gathman, Albert: *See*—
Donlan, T. R., and Gathman.

General Electric Company: *See*—
Allen, Wayne H., assignor.
Bivens, Maurice E., assignor.
Clark, Howard L., assignor.
D'Entremont, Franklin R., assignor.
Martin, Harold M., assignor.
McKenney, James F., assignor.
Rich, Theodore A., assignor.

General Motors Corporation: *See*—
Gibson, J Lowell, assignor.
Louthan, Chester F., assignor.

General Tire & Rubber Company, The: *See*—
Dettling, Joseph J., assignor.

Gibson, J Lowell, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,391,151; Dec. 18.

Gilliver, Gilbert, assignor to Standard Telephones and Cables Limited, London, England. Joining of wires, particularly fine wires used in the manufacture of electric coils. 2,390,999; Dec. 18.

Gillon, John W., assignor to Eastman Kodak Company, Rochester, N. Y. Range finder adjusting mechanism. 2,391,152; Dec. 18.

Ginzton, Edward L., Rockville Centre, and W. W. Hansen, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High-frequency tube structure. 2,391,016; Dec. 18.

Gleim, Clyde E.: *See*—
Clifford, A. M., and Gleim.

Goldsmith, Thomas T., Jr., Cedar Grove, assignor to Allen B. DuMont Laboratories, Inc., Passaic, N. J. Monitoring device for television systems. 2,391,090; Dec. 18.

Goodhue, William V.: *See*—
Bell, C. C., and Goodhue.

Goodrich, B. F. Company, The: *See*—
Gruber, Elbert E., assignor.
Hunter, Willson H., assignor.

Gregg, David, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Flow regulating system. 2,391,306; Dec. 18.

Grobet, Georges, assignor to R. Habib, Geneva, Switzerland. Universal precision sharpening machine. 2,391,153; Dec. 18.

Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Tailstock for lathes. 2,391,154; Dec. 18.

Grontkowski, Raymond B., Washington, D. C. Brake control mechanism. 2,391,017; Dec. 18.

Gruber, Elbert E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polymerization of butadiene-1,3 hydrocarbons. 2,391,233; Dec. 18.

Gschwind, Jean F.: *See*—
Ross, J. O., and Gschwind.

Gwaltney, Eugene C., Biddeford, and H. R. Marsh, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Yarn tensioning device. 2,391,307; Dec. 18.

Habib, Robert: *See*—
Grobet, Georges, assignor.

Hale, Arthur N., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loop-taker transmission mechanism for turning stitching sewing machines. 2,391,155; Dec. 18.

Hammond Iron Works, et al.: *See*—
Kopf, Robert Y., assignor.

Hanneman, Walter M., Oak Park, assignor to Illinois Tool Works, Chicago, Ill. Fastener unit. 2,391,308; Dec. 18.

Hansen, William W.: *See*—
Ginzton, E. L., and Hansen.

Hansgirg, Fritz J., Los Altos, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., as trustee. Apparatus for refining sublimable material. 2,391,156; Dec. 18.

Hardman, Albert F., assignor to Wingfoot Corporation, Akron, Ohio. Vulcanization of rubber. 2,391,234; Dec. 18.

Harrer, Paul H., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary baler. 2,391,018; Dec. 18.

Harriott, Bernard L., Lake City, Iowa. Registering device. 2,391,309; Dec. 18.

Harvey, Douglass C., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter release. 2,391,157; Dec. 18.

Hat Corporation of America: *See*—
O'Brien, Paul C., assignor.

Hathorn, Charles E., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Hose clamp. 2,391,235; Dec. 18.

Hauptli, Herbert A., assignor to Maizewood Insulation Company, Dubuque, Iowa. Wallboard construction. 2,391,052; Dec. 18.

Helfenbein, Richard C.: *See*—
Zabel, W. C. P., and Helfenbein.

Heller, Leo B., Chicago, Ill. Automobile trunk loading device. 2,391,310; Dec. 18.

Helmore, William, Kingston Hill, assignor to C. C. Wakefield & Company Limited, Beaconsfield, England. Lubricating composition. 2,391,311; Dec. 18.

Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of diolefins. 2,391,158; Dec. 18.

Herbener, Henry M.: *See*—
Drake, Jerry H., assignor.

Hercules Powder Company: *See*—
Spurlin, Harold M., assignor.
Underwood, George J., assignor.

Hermansen, Evald, assignor to Bendix Aviation Corporation, Detroit, Mich. Fluid seal. 2,391,159; Dec. 18.

Hewlett, Amiot P., Summit, and G. E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company. Refining petroleum oils. 2,391,001; Dec. 18.

Hillman, Charles A., Sea Girt, and D. L. Campbell, Short Hills, N. J., assignors to Standard Oil Development Company. Refining operation. 2,391,160; Dec. 18.

Himdie, James A., Punjab, British India. Pryomagnetic motor. 2,391,313; Dec. 18.

Hintz, Harvey P.: *See*—
Schubert, A. E. Hintz, and Stettner.

Hirsch, Sabine, Minneapolis, Minn. Oxidation of paraffinic hydrocarbons. 2,391,236; Dec. 18.

Hirsch, Sabine, Minneapolis, Minn., assignor to Cargill, Incorporated, Wilmington, Del. Saponification process. 2,391,010; Dec. 18.

Hodgeson, Willie W., Baker, La., assignor to Standard Oil Development Company. Refining process. 2,391,367; Dec. 18.

Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tension for narrow ware shuttles. 2,391,314; Dec. 18.

Horan, Timothy F., New Haven, Conn. Hammer mechanism for firearms. 2,391,237; Dec. 18.

Horback, William, Newark, N. J., assignor to Celanese Corporation of America. Polystyrene sheet material. 2,391,092; Dec. 18.

Horman, John H., Tuckahoe, assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Snap switch. 2,391,238; Dec. 18.

Horn, Lee V., West Los Angeles, assignor to Filtrol Corporation, Los Angeles, Calif. Extruding acid-activated montmorillonite clay. 2,391,050; Dec. 18.

Hortex Manufacturing Company: *See*—
Horwitz, Louis, assignor.

Horwitz, Louis, assignor to Hortex Manufacturing Company, El Paso, Tex. Pocket construction. 2,391,239; Dec. 18.

Houston, John W., Tama, Iowa. Wire winding and unwinding reel. 2,391,240; Dec. 18.

Howell, Lynn G., Houston, Tex., assignor to Standard Oil Development Company. Radioactivity well-logging. 2,391,093; Dec. 18.

Hubert, Ernest E., assignor to I. F. Lauks, Inc., Seattle, Wash. Apparatus for testing the fire-resistance of materials. 2,391,161; Dec. 18.

Huehner, Denis W., and J. E. Fearey, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Interpolymers of isobutylene with vinyl methacrylate and their preparation. 2,391,162; Dec. 18.

Hulsberg, William E., assignor to Universal Oil Products Company, Chicago, Ill. Reactor. 2,391,315; Dec. 18.

Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protective covering for aircraft surfaces and the like. 2,391,241; Dec. 18.

Hurrey, Clarence B.: *See*—
Hurrey, Ross C., assignor.

Hurrey, Ross C., assignor of one-half to Clarence B. Hurrey, Ashton, Md. Thermit bomb. 2,391,242; Dec. 18.

Hutton, James H., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Center-of-gravity location indicator. 2,391,243; Dec. 18.

Hydraulic Control Engineering Company: *See*—
Stephens, William T., assignor.

Illinois Tool Works: *See*—
Hanneman, Walter M., assignor.

Imperial Chemical Industries Limited: *See*—
Bacon, R. G. R. and Richards, assignors.
Bryce, G., and Williams, assignors.
Huebner, D. W., and Fearey, assignors.

International Cigar Machinery Company: *See*—
Clausen, Sigurd, assignor.

International Harvester Company: *See*—
Baker, D. B., and Bechman, assignors.
Mott, Carl W., assignor.
Raney, Russell E., assignor.

International Paper Box Machine Company, The: *See*—
Labombarde, Harold S., assignor.

International Standard Electric Corporation: *See*—
Komives, L. I., Courtis, and Thomas, assignors.

Intertype Corporation: *See*—
Klingberg, E. G., Stadelmann and Freund, assignors.

Ives, H. B., Company, The: *See*—
Bloss, Herman, assignor.

J. P. Seeburg Corporation: *See*—
Kenney, Mahlon W., assignor.

Jackman, John J., Dayton, Ohio. Micrometer gauge. 2,391,020; Dec. 18.

Jackson, James O., Crafton, Pa., assignor to Pittsburgh-Des Moines Company. Heat exchanger. 2,391,244; Dec. 18.

Jackson, Lewis, Simpson, Kans. Bale elevator. 2,391,053; Dec. 18.

Jensen, Thormod, Laurelton, N. Y., assignor to American Machine and Foundry Company. Wrapping machine safety mechanism. 2,391,316; Dec. 18.

Jessup, Sellers E., Los Angeles, Calif. Compressing fluid. 2,391,163; Dec. 18.

Kail, Karl A., Montrose, Pa., assignor to Link Aviation Devices, Inc., Binghamton, N. Y. Ball bearing. 2,391,245; Dec. 18.

Kaiser, Otto, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Metallizable triazine azo dyestuffs. 2,391,164; Dec. 18.

Kapella Limited: *See*—
Warmisham, A., and Wynne, assignors.

Kaplan, Morris: *See*—
Williams, F. J., and Kaplan.

Karg, Frank G., Chicago, Ill. Prophylactic package. 2,391,094; Dec. 18.

Kasket, Guenther, New York, N. Y. Stocking foot. 2,391,165; Dec. 18.

Kebrich, Leonard M., Brooklyn, assignor to National Lead Company, New York, N. Y. Lead salicylate compositions and preparing same. 2,391,166; Dec. 18.

Kellog, Henry B., Union City, and P. K. Frolich, Westfield, N. J., assignors to Standard Oil Development Company. Vulcanized high-pressure polymers. 2,391,095; Dec. 18.

Kelly, Edward A., Indianapolis, Ind. Multiple payment coupon book. 2,391,054; Dec. 18.

Kelly, Frank E., Chicago, Ill. Fishing tackle. 2,391,167; Dec. 18.

Kelsey-Hayes Wheel Company: *See*—
Sinclair, Charles W., assignor.

Kenney, Mahlon W., Oak Park, assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,391,246; Dec. 18.

Klein, Charles H., Cincinnati, assignor to Progress Lithographing Company, Reading, Ohio. Grinding fixture. 2,391,317; Dec. 18.

Klein, Frederick: *See*—
Gale, Leonard, assignor.

Klingberg, Einar G., Long Island City, F. Stadelmann, Valley Stream, and H. R. Freund, assignors to Intertype Corporation, Brooklyn, N. Y. Apparatus for photographic composition. 2,391,021; Dec. 18.

Knight, Edward, Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for the liquid treatment of fibrous material. 2,391,096; Dec. 18.

Knudsen, Knud J., Warren, Ohio. Electrical ratio meter. 2,391,168; Dec. 18.

Knudsen, Valdemar: *See*—
McLemore, P. C., and Knudsen.

Knudtson, Carl T., Blue Earth, Minn. Carton or box opener. 2,391,247; Dec. 18.

Koch, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Stereoscopic acuity testing device. 2,391,248; Dec. 18.

Koch, Harry O., Wichita, Kans. Egg decapper. 2,391,169; Dec. 18.

Komives, Laszlo I., J. W. Courtis, D. E. F. Thomas, Detroit, Mich., assignors, by mesne assignments, to International Standard Electric Corporation, N. Y. Polymerised cable blocks. 2,391,055; Dec. 18.

Koniuszy, Frank: *See*—
Folkers, K., and Koniuszy.

Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Container vacuumising and closing machine. 2,391,319; Dec. 18.

Kropf, Henry W.: *See*—
Bunker, V. W., De Young, and Kropf.





Kopf, Robert Y., assignor of one-half to Hammond Iron Works, Warren, Pa., and one-half to K. C. Fulton and H. F. Pierce, Titusville, Pa. Oil filter. 2,391,318; Dec. 18.

Kuhl, Frank P., New York, N. Y., assignor to Underwood Corporation. Typewriting machine. 2,391,097; Dec. 18.

Kurlash Company, Inc., The: *See*—
Tuttle, W. E., and Beldue, assignors.

Labombarde, Harold S., assignor to The International Paper Box Machine Company, Nashua, N. H. Stacker accumulator. 2,391,170; Dec. 18.

Lake, Ross A., Oak Park, assignor to Teletype Corporation, Chicago, Ill. Keyboard perforator. 2,391,056; Dec. 18.

Lakso, Eino E.: *See*—
Von Hofe, G. W., and Lakso.

Landahl, Eugene E., Detroit, Mich. Self-aligning idler for conveyer belts. 2,391,249; Dec. 18.

Lane, Gerould T., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic stripping film. 2,391,171; Dec. 18.

La Rocque, Joseph E.: *See*—
Peterson, W. R., and La Rocque.

Lauks, I. F., Inc.: *See*—
Hubert, Ernest E., assignor.

Le Blond, R. K., Machine Tool Company, The: *See*—
Groene, William F., assignor.

Legowik, Thaddeus, A. B., Great Falls, Mont. Composite beam. 2,391,250; Dec. 18.

Leland, George H., Dayton, Ohio. Hoisting mechanism. 2,391,172; Dec. 18.

Lerer, Henry: *See*—
Woitzger, Z., and Lerer.

Lewis, Jacob D., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Motor control system. 2,391,320; Dec. 18.

Lewis, Reese G.: *See*—
Oswald, E. C., and Lewis.

Liebert, Margaret K.: *See*—
Field, Patrick H., assignor.

Lingel, Frederick J., Bluffton, Ohio, assignor to The Liquidometer Corporation, Long Island City, N. Y. Electrical telemetering system. 2,391,057; Dec. 18.

Lingel, Frederick J., Bluffton, Ohio, assignor to The Liquidometer Corporation, Long Island City, N. Y. Electrical instrument and system. 2,391,058; Dec. 18.

Link Aviation Devices, Inc.: *See*—
Kail, Karl A., assignor.

Liquidometer Corporation, The: *See*—
De Giers, C. A., and Wickesser, assignors.
Lingel, Frederick J., assignor.

Littell, F. J., Machine Company: *See*—
Littell, Frederick M., assignor.

Littell, Frederick M., Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill. Coil supporting reel. 2,391,321; Dec. 18.

Locke Stove Company: *See*—
Esson, Edwin, assignor.

Loftus Engineering Corporation, Inc.: *See*—
Loftus, F. H., and (Troglione, assignors).

Loftus, Fred H., Mount Lebanon, and V. R. Troglione, Wilkinsburg, said Troglione assignor to Loftus Engineering Corporation, Inc., Pittsburgh, Pa. Car-bottom furnace. 2,391,173; Dec. 18.

Long, John R., assignor to Wingfoot Corporation, Akron, Ohio. Derivatives of fatty acids and preparing same. 2,391,251; Dec. 18.

Louthan, Chester F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,391,252; Dec. 18.

Lownsbery, Harry R., Elmira, N. Y. Fluid feeding and distributing apparatus. 2,391,174; Dec. 18.

Lundquist, Hjalmar T., Kennett Square, Pa. Belt sander. 2,391,322; Dec. 18.

Macfarren, Walter W., Los Angeles, Calif. Pontoon assembly and using the same. 2,391,059; Dec. 18.

Machado, Anthony B.: *See*—
Friden, C. M., and Machado.

Machado, Anthony B., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,391,098; Dec. 18.

MacKay, John R., West Caldwell, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Recording and indicating system. 2,391,060; Dec. 18.

Mackintosh, Charles, Los Angeles, Calif. Timber connector. 2,391,061; Dec. 18.

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Adhesive tape dispensing device. 2,391,062; Dec. 18.

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Hose coupling. 2,391,063; Dec. 18.

Main, Donald W., assignor to Michigan Patents Corporation, Jackson, Mich. Self-sealing coupling. 2,391,022; Dec. 18.

Maizewood Insulation Company: *See*—
Hauptli, Herbert A., assignor.

Maletta, Albert, Yakima, Wash. Sheet music turner. 2,391,175; Dec. 18.

Maling, Roy, West Roxbury, Mass. Footwear. 2,391,023; Dec. 18.

Mallory, Marion, Detroit, Mich. Internal-combustion engine. 2,391,176; Dec. 18.

Malsbary, Job F., assignor to Malsbary Manufacturing Company, Oakland, Calif., a co-partnership composed of Job F. Malsbary and Walter W. Tayler. Feed means for cleaning machines. 2,391,177; Dec. 18.

Malsbary Manufacturing Company: *See*—
Malsbary, Job F., assignor.

Marsh, Henry R.: *See*—
Gwaltney, R. C., and Marsh.

Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,391,253; Dec. 18.

Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,391,254; Dec. 18.

Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,391,255; Dec. 18.

Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Power plant control means. 2,391,323; Dec. 18.

Martin, Harold M., Schenectady, N. Y., assignor to General Electric Company. Dynamometer. 2,391,024; Dec. 18.

Martin, Paul N., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Mounting plate for plug-in devices. 2,391,324; Dec. 18.

Martinson, Syerre: *See*—
Steibel, J. P., and Martinson.

Marx, Walter S., Jr., assignor to Printing Arts Research Laboratories, Inc., Santa Barbara, Calif. Photoengraving. 2,391,025; Dec. 18.

Maurette, René G., Beverly, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass. Lighting device. 2,391,325; Dec. 18.

Max Ams Machine Company, The: *See*—
Brenzinger, Julius, assignor.

McCandless, Estella S., Detroit, Mich. Toe mitt. 2,391,064; Dec. 18.

McDowell, Wendell H.: *See*—
Minsk, L. M., Weyerts, and McDowell.

McGuigan, William D., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Shielded loop antenna. 2,391,026; Dec. 18.

McKenney, James F., Pittsfield, Mass., assignor to General Electric Company. Electric switching system. 2,391,256; Dec. 18.

McKenzie, Wendell R.: *See*—
Tarwater, L., and McKenzie.

McKnight, Lynn B., assignor to Chain Belt Company, Milwaukee, Wis. Idler roll for belt conveyers. 2,391,178; Dec. 18.

McKinley, Ashley C., Huntington, assignor to McKinley Pneumatic Floats, Inc., Garden City, Long Island, N. Y. Pneumatic flotation gear. 2,391,326; Dec. 18.

McKinley, Benjamin P., assignor to McKinley Mockenhaupt Co., Chicago, Ill. Electrically heated device. 2,391,065; Dec. 18.

McKinley Mockenhaupt Co.: *See*—
McKinley, Benjamin P., assignor.

McKinley Pneumatic Floats, Inc.: *See*—
McKinley, Ashley C., assignor.

McLemore, Price C., Montgomery, Ala., and V. Knudsen, Honolulu, Territory of Hawaii, said Knudsen assignor to Atherton Richards, Washington, D. C. Apparatus for flame cultivation of plants. 2,391,027; Dec. 18.

McNab, John G., Cranford, C. J. Wilson, and C. Winning, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil composition. 2,391,099; Dec. 18.

McNally, James G.: *See*—
Dickey, J. B., and McNally.

McNally, James G., Oak Ridge, Tenn., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Sulphonamido azo pyrazolones. 2,391,180; Dec. 18.

McNally, James G., and J. R. Byers, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Fluorine containing azo compounds. 2,391,179; Dec. 18.

McWhorter, Charles R., Ferguson, Mo., assignor to Curtiss-Wright Corporation. Center of gravity location indicator. 2,391,257; Dec. 18.

Mechanical Handling Systems, Inc.: *See*—
Stuart, Clarence C., assignor.

Meincke, Howard D., Jr., assignor to Howard D. Meincke, Sr., Glencoe, Ill. Treatment of water containing chlorides and sodium dissolved therein. 2,391,258; Dec. 18.

Meincke, Howard D., Sr.: *See*—
Meincke, Howard D., Jr., assignor.

Mekler, Lev A., assignor to Universal Oil Products Company, Chicago, Ill. Regeneration of solid contact material. 2,391,327; Dec. 18.

Merck & Co., Inc.: *See*—
Folkers, Karl, assignor.
Folkers, K., and Koniuszy, assignors.
Folkers, K., and Shavel, assignors.

Michalke, Herman W., Denver, Colo. Knife cleaner for type-casting machines. 2,391,259; Dec. 18.

Michigan Patents Corporation: *See*—
Main, Donald W., assignor.

Mikeska, Louis A.: *See*—
Nelson, J. F., and Mikeska.

Miles, James C., Cleveland, Ohio. Hot air heating furnace. 2,391,028; Dec. 18.

Miller, Chant A., Winamac, and S. L. Border, Monon, Ind. Dental tool sharpening device. 2,391,260; Dec. 18.

Miller, Charles H., Chicago, Ill. Beverage mixing machine. 2,391,066; Dec. 18.
Milone, Charles R., assignor to Wingfoot Corporation, Akron, Ohio. Catalytic reactions. 2,391,261; Dec. 18.
Minichello, Peter J., Pittston, assignor of one-half to Michael Valenzano, Dunmore, Pa. Mineral separating and sizing device. 2,391,029; Dec. 18.
Minneapolis-Honeywell Regulator Company: *See*—
Boyer, James B., assignor.
Minsk, Louis M., W. J. Weyerts, and W. H. McDowell, assignors to Eastman Kodak Company, Rochester, N. Y. Protective overcoating. 2,391,161; Dec. 18.
Misfeldt, Charles C., Glendale, Calif. Pressure molding. 2,391,182; Dec. 18.
Mitchell, Percival H., assignor to A. C. Ransom, Toronto, Ontario, Canada. Method and apparatus for the production of carbon black. 2,391,067; Dec. 18.
Mitchell, Wallace F., Chicago, assignor to Automotive Maintenance Machinery Co., North Chicago, Ill. Centering means for boring machines. 2,391,183; Dec. 18.
Mohr, Albert C., Arcadia, Calif., assignor to Stauffer Chemical Company. Production of sulphur dioxide. 2,391,328; Dec. 18.
Moline, Carl R., Homewood, Ill., assignor to Allied Rail way Equipment Company. Brake head retaining mechanism for brake beams. 2,391,329; Dec. 18.
Monack, Albert J., Rutherford, assignor to Mycalex Corporation of America, Passaic County, N. J. Machinable insulating composition. 2,391,376; Dec. 18.
Monks, Frank E., Pittsburgh, Pa., assignor to Fuller Label & Box Company. Parachute. 2,391,262; Dec. 18.
Monsanto Chemical Company: *See*—
Marshall, Morris D., assignor.
Morey Machinery Co., Inc.: *See*—
Caselia, Secondo L., assignor.
Morris, Rupert C., Berkeley, and A. V. Snider, Richmond, assignors to Shell Development Company, San Francisco, Calif. Stabilization of sulpholanes. 2,391,331; Dec. 18.
Morris, Rupert C., Berkeley, and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Synthetic rubber compositions. 2,391,330; Dec. 18.
Morrison, Willard L., Lake Forest, Ill. Refrigerating apparatus. 2,391,030; Dec. 18.
Morton, Alexander, Bloomfield, N. J. Baker's safety glove. 2,391,263; Dec. 18.
Morway, Arnold J.: *See*—
Zimmer, J. C., and Morway.
Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Connecting pin holder. 2,391,100; Dec. 18.
Mueller, Alfred, Berwyn, Ill., assignor to Crane Co., Chicago, Ill. Making pipe fittings. 2,391,332; Dec. 18.
Muster, Harold B., Avon Lake, assignor to Rudolph I. Schonitzer, Shaker Heights, Ohio. Sheet metal nut 2,391,031; Dec. 18.
Mycalex Corporation of America: *See*—
Monack, Albert J., assignor.
Nardone, Romeo M., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Actuating unit for retractable landing gear. 2,391,333; Dec. 18.
National Folding Box Company: *See*—
Williamson, M. L., and Fink, assignors.
National Lead Company: *See*—
Kebrich, Leonard M., assignor.
Williams, F. J., and Kaplan.
Nelson, Joseph F., Elizabeth, and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Compounded hydrocarbon oil. 2,391,184; Dec. 18.
Newhouse, Walter F., Benton Harbor, Mich. Box construction. 2,391,032; Dec. 18.
New Jersey Machine Corporation: *See*—
von Hofe, G. W., and Lakso, assignors.
Nicholson, Edward W. S., Baton Rouge, La., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,391,334; Dec. 18.
Nickelson, Fred, Topeka, Kans. Nursing bottle holder. 2,391,264; Dec. 18.
Niemi, Mtti, Anchorage, Territory of Alaska. Fish pick. 2,391,185; Dec. 18.
Noble, Warren, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Air-cooled reduction gear unit. 2,391,186; Dec. 18.
Northcutt, Robert T., Jr.: *See*—
Northcutt, R. T., and R. T., Jr.
Northcutt, Robert T., Westfield, and R. T. Northcutt, Jr., Fanwood, N. J., assignors to Food Concentrates, Inc., New York, N. Y. Drying hygroscopic plastics 2,391,033; Dec. 18.
Van der Pyl, Edward, assignor.
Norton Company: *See*—
Nye, J. Marshall, Phillips, Tex., assignor to Phillips Petroleum Company. Fluid pressure electrical switch 2,391,068; Dec. 18.
O'Brien, Paul C., assignor to Hat Corporation of America, Norwalk, Conn. Heat protector. 2,391,335; Dec. 18.
O'Brien, Vincent R., St. Paul, Minn. Sink construction. 2,391,034; Dec. 18.
Odin, Frank W., Chicago, Ill. Telescopic structure. 2,391,101; Dec. 18.
Ogorzaly, Henry J., Summit, N. J., assignor to Standard Oil Development Company. Petroleum conversion process. 2,391,336; Dec. 18.
Ohio Wax Paper Company: *See*—
Palmer, Edward, assignor.
Oil Devices: *See*—
Perry, Stanley, assignor.
O'Neil, James H., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Paper container structure and end closure thereor. 2,391,337; Dec. 18.
Oswald, Elmer C., and R. G. Lewis, assignors to Armour and Company, Chicago, Ill. Hams and preparation thereof. 2,391,338; Dec. 18.
Otis Elevator Company: *See*—
Lewis, Jacob D., assignor.
Page, Herbert E., Pasadena, Calif. Hydraulic arbor press. 2,391,187; Dec. 18.
Palmer, Edward, assignor to Ohio Wax Paper Company, Columbus, Ohio. Paper roll supporting rack. 2,391,263; Dec. 18.
Parker Appliance Company, The: *See*—
Parker, Arthur L., assignor.
Stark, Donald A., assignor.
Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Tube and protective sleeve assembly. 2,391,266; Dec. 18.
Patterson, John A., Westfield, N. J., assignor to Standard Oil Development Company. Separation and purification of hydrocarbons. 2,391,102; Dec. 18.
Patterson, Robert J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Butadiene production 2,391,188; Dec. 18.
Peace, John D., Jr.: *See*—
Sperry, E. A., Jr., and Peace.
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Air heater and circulator for can end drying machines. 2,391,339; Dec. 18.
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Crown cap spotting apparatus. 2,391,340; Dec. 18.
Pearson, Paul E., and A. Treff, Chicago, Ill., assignors to Continental Can Company, New York, N. Y. Machine for applying sealing compound to container ends. 2,391,341; Dec. 18.
Pennsylvania Industrial Chemical Corporation: *See*—
Carmody, William H., assignor.
Peppel, William J., Bellemoor, assignor to E. I. du Pont de Nemours & Company. Wilmington, Del. Amides. 2,391,267; Dec. 18.
Perry, Stanley, Chicago, Ill., assignor to Oil Devices, Santa Fe, N. Mex. Horizontal pot type burner. 2,391,069; Dec. 18.
Perry, Stephen F., Roselle, N. J., assignor to Standard Oil Development Company. Isomerization process. 2,391,189; Dec. 18.
Peters, Carl E.: *See*—
Rau, D. K., and Peters.
Peterson, Carl D., and R. R. Burkhalter, Toledo, Ohio. Synchronizing clutch. 2,391,268; Dec. 18.
Peterson, Merlin D.: *See*—
Weber, A. G., and Peterson.
Peterson, William R., and J. E. La Rocque, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Heat motor. 2,391,342; Dec. 18.
Phillips, Harlow D., assignor to Eastman Kodak Company, Rochester, N. Y. Film spool. 2,391,269; Dec. 18.
Phillips, Gerald E.: *See*—
Hewlett, A. P., and Phillips.
Phillips Petroleum Company: *See*—
Ayres, Charles E., assignor.
Frey, Frederick E., assignor.
Hepp, Harold J., assignor.
Nye, J. Marshall, assignor.
Patterson, Robert J., assignor.
St. Clair, Theodore A., assignor.
Pierce, Hasel F., et al.: *See*—
Kopf, Robert Y., assignor.
Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Motor with separate drive shafts. 2,391,103; Dec. 18.
Pittsburgh-Des Moines Company: *See*—
Jackson, James O., assignor.
Plessey Company Limited, The: *See*—
Pugh, Cyril A., assignor.
Pohl, Walter M., New Haven, Conn., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic retractor control. 2,391,035; Dec. 18.
Popper, Otto, Johannesburg, Transvaal, Union of South Africa. Vaginal obturator. 2,391,343; Dec. 18.
Porter, Josephine A., Baltimore, Md. Ash tray. 2,391,190; Dec. 18.
Potholm, Valdemar A., Hartford, Conn. Duster. 2,391,070; Dec. 18.
Powers, Frank T., Glen Cove, N. Y. X-ray casette. 2,391,191; Dec. 18.
Prall, James R., Newark, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Crystal inspection device. 2,391,344; Dec. 18.
Price, Harold W., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,391,192; Dec. 18.
Price, William R., Niagara Falls, N. Y. Heating apparatus. 2,391,071; Dec. 18.
Printing Arts Research Laboratories, Inc.: *See*—
Marx, Walter S., Jr., assignor.
Progress Lithographing Company: *See*—
Klein, Charles H., assignor.





Pugh, Cyril A., assignor to The Plessey Company Limited, Ilford, England. Hydraulic pump. 2,391,072; Dec. 18.
Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Self-closing top and dispensing container. 2,391,345; Dec. 18.
Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Crown capped container. 2,391,346; Dec. 18.
Punte, William F., Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Tablet box. 2,391,347; Dec. 18.
Pure Oil Company, The: *See*—
Folkins, H. O., and Thacker, assignors.
Rademaker, John C., Palo Alto, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif, as trustee for the benefit of Reconstruction Finance Corporation. Production of magnesium. 2,391,193; Dec. 18.
Radio Corporation of America: *See*—
Van Dyck, Arthur, assignor.
Raney, Russell R., Auburn, N. Y., assignor to International Harvester Company. Pickup construction. 2,391,348; Dec. 18.
Ransom, Albert C.: *See*—
Mitchell, Percival H., assignor.
Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,391,073; Dec. 18.
Rasmussen, Oavald E., Greenburg, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Armored conductor structure. 2,391,036; Dec. 18.
Rau, David, Kirkwood, and C. E. Peters, Clayton, assignors to B. L. Electric Company, St. Louis, Mo. Rectifiers. 2,391,194; Dec. 18.
Read, Chester L., Westfield, N. J., assignor to Standard Oil Development Company. Vapor phase extraction. 2,391,104; Dec. 18.
Reed, Jesse C., Dayton, Ohio. Liquid-elevating apparatus. 2,391,105; Dec. 18.
Refining, Unincorporated: *See*—
Clayton, Benjamin, assignor.
Reimers, Frederick E., Rahway, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Separation of isoquinoline. 2,391,270; Dec. 18.
Reynolds Metals Co.: *See*—
Weiller, Charles R., assignor.
Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Flux measurement. 2,391,271; Dec. 18.
Richards, Atherton: *See*—
Knudsen, V. and K., assignors.
Richards, Raymond B.: *See*—
Bacon, R. G. R., and Richards.
Rifenbergh, Clare M., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Electrical device. 2,391,038; Dec. 18.
Ring, Ernest A., West Barrington, assignor of one-half to F. M. Blakeney, Cranston, R. I. Goggle. 2,391,349; Dec. 18.
Roede, Charles B.: *See*—
Sperry, E. A., Jr., and Roede.
Roper, Charles G.: *See*—
Carliss, O. S., and Roper.
Rose, David, Chicago, Ill. Conveyer. 2,391,272; Dec. 18.
Ross, J. O., Engineering Corporation: *See*—
Ross, J. O., and Gschwind, assignors.
Ross, John O., New York, and J. F. Gschwind, Scarsdale, assignors to J. O. Ross Engineering Corporation, New York, N. Y. Drier. 2,391,195; Dec. 18.
Rutherford, Robert E., Rutherford, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Deflecting plates for cathode ray tubes. 2,391,273; Dec. 18.
Saco-Lowell Shops: *See*—
Cotchett, Louis M., assignor.
Gwaltney, E. C., and Marsh, assignors.
Saffir, Jacob A., Chicago, Ill., assignor to The Dentists' Supply Company of New York, New York, N. Y. Making artificial teeth. 2,391,106; Dec. 18.
St. Clair, Theodore A., Pontiac, Mich., assignor to Phillips Petroleum Company. Poppet changeover for liquefied gas systems. 2,391,043; Dec. 18.
Sanderson, Lawrence S., Los Angeles, Calif. Selector valve. 2,391,196; Dec. 18.
Schaefer, Ralph A., East Cleveland, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Coating metal articles. 2,391,039; Dec. 18.
Schmidt, Edward P., Hollywood, Ill. Bearing clutch. 2,391,350; Dec. 18.
Schmidt, John E., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for testing cans for leaks. 2,391,351; Dec. 18.
Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Centralizing means for brake shoes. 2,391,074; Dec. 18.
Schonitzer, Rudolph I.: *See*—
Muster, Harold B., assignor.
Schubert, Alvin E., H. P. Hintz, and H. J. Stettner, assignors to Eastman Kodak Company, Rochester, N. Y. Control for record handling and copying apparatus. 2,391,274; Dec. 18.
Schwartz, Meyer D., Sunnyside, N. Y. Coat. 2,391,352; Dec. 18.
Schwien, L. N., Engineering Co.: *See*—
Schwien, Leo N., assignor.
Schwien, Leo N., assignor to L. N. Schwien Engineering Co., Los Angeles, Calif. System for controlling cabin pressure of aircraft. 2,391,197; Dec. 18.
Scientific Research and Development, the United States of America as represented by the Executive Secretary of the Office of: *See*—
Calingaert, G., Soroos, and Shapiro, assignors.
Scovill Manufacturing Company: *See*—
Barlow, William H., assignor.
Scully, Charles T.: *See*—
Chatterjea, P. K., and Scully.
Scully, Frank P., Cambridge, Mass., assignor to Scully Signal Co., East Cambridge, Mass. Signaling nozzle. 2,391,040; Dec. 18.
Scully Signal Co.: *See*—
Scully, Frank P., assignor.
Seamless Rubber Company, The: *See*—
Madsen, Paul S., assignor.
Secor, Robert B.: *See*—
Ewing, F. J., Secor, and Warner.
Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. Sensitive interlayers in multilayer film. 2,391,198; Dec. 18.
Shafer, Ira C., Jr., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Armored conductor structure. 2,391,037; Dec. 18.
Shallock, Edward W., assignor to American Ore Reclamation Company, Chicago, Ill. Sintering machine. 2,391,199; Dec. 18.
Shapiro, Hymin: *See*—
Calingaert, G., Soroos, and Shapiro.
Shavel, John, Jr.: *See*—
Folkers, K., and Shavel.
Shaw, Elgin L., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Yield link. 2,391,275; Dec. 18.
Shell Development Company: *See*—
Bollo, F. G., and Tomlinson, assignors.
Morris, R. C., and Shokal, assignors.
Morris, R. C., and Snider, assignors.
Sheridan, Hiram W., Oak Park, Ill. Armor. 2,391,353; Dec. 18.
Shipp, Vladimir L.: *See*—
Cauley, S. P., and Shipp.
Shokal, Edward C.: *See*—
Morris, R. C., and Shokal.
Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel. 2,391,200; Dec. 18.
Singer Manufacturing Company, The: *See*—
Hale, Arthur N., assignor.
Six Wheels, Inc.: *See*—
Tarwater, L., and McKenzie, assignors.
Slosberg, Harry M., Ames, Iowa, assignor to Continental Can Company, Inc., New York, N. Y. Testing filled sealed cans for leaks. 2,391,354; Dec. 18.
Smith, Hugh C., Chicago, Ill. Street indicating device for vehicles. 2,391,355; Dec. 18.
Smith, Joe F., Memphis, Tenn. Adjustable window guard. 2,391,201; Dec. 18.
Snider, Alva V.: *See*—
Morris, R. C., and Snider.
Society of Chemical Industry in Basle: *See*—
Danuser, J., and von Capeller, assignors.
Kaiser, Otto, assignor.
Socony-Vacuum Oil Company: *See*—
Cauley, S. P., and Shipp, assignors.
Soroos, Harold: *See*—
Calingaert, G., Soroos, and Shapiro.
Sperry, Elmer A., Jr., New York, N. Y., and C. B. Roede, Ridgefield, assignors to Sperry Products, Inc., Hoboken, N. J. Torpedo director. 2,391,357; Dec. 18.
Sperry, Elmer A., Jr., New York, and J. D. Peace, Jr., Malba, N. Y., assignors to Sperry Products, Inc., Hoboken, N. J. Torpedo director. 2,391,356; Dec. 18.
Sperry Gyroscope Company, Inc.: *See*—
Ginzton, E. L., and Hansen, assignors.
Sperry Products, Inc.: *See*—
Sperry, E. A., Jr., and Peace, assignors.
Sperry, E. A., Jr., and Roede, assignors.
Spicer, William E., and R. N. Watts, Baton Rouge, La., assignors to Standard Oil Development Company. Preparing catalyst. 2,391,358; Dec. 18.
Sprague, Vinton G., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector switch. 2,391,276; Dec. 18.
Spray Process Co. Inc.: *See*—
Vose, Edwin W., assignor.
Spurlin, Harold M., Marshallton, assignor to Hercules Powder Company, Wilmington, Del. Making terpene polymers. 2,391,359; Dec. 18.
Stadelmann, Fritz: *See*—
Klingberg, E. G., Stadelmann, and Freund.
Stamberger, Paul, Dover, Del. Production of water dispersions of drying oils, varnishes and lacquers. 2,391,041; Dec. 18.
Stamberger, Paul, Dover, Del. Production of solidifying thickened and solid masses from esters of unsaturated fatty acids. 2,391,042; Dec. 18.
Standard Oil Company: *See*—
Carmody, Don R., assignor.

Standard Oil Development Company: *See*—
Donlan, T. R., and Gathman, assignors.
Hewlett, A. P., and Phillips, assignors.
Hillman, C. A., and Campbell, assignors.
Hodgeson, Willie W., assignor.
Howell, Lynn G., assignor.
Kellogg, H. B., and Frolich, assignors.
McNab, J. G., Wilson, and Winning, assignors.
Nelson, J. F., and Mikeska, assignors.
Nicholson, Edward W. S., assignor.
Ogorzaly, Henry J., assignor.
Patterson, John A., assignor.
Perry, Stephen F., assignor.
Read, Chester L., assignor.
Spicer, W. E., and Watts, assignors.
Tyson, Charles W., assignor.
Walker, James L., assignor.
Zimmer, J. C., and Morway, assignors.

Standard Telephones and Cables Limited: *See*—
Chatterjea, P. K., and Scully, assignors.
Gilliver, Gilbert, assignor.

Stapleton, George M., Sea Cliff, N. Y., assignor to Ward Leonard Electric Company. Electromagnetic device. 2,391,277; Dec. 18.

Stark, Donald A., Willoughby Township, Lake County, assignor to The Parker Appliance Company, Cleveland, Ohio. High pressure shutoff valve. 2,391,278; Dec. 18.

Stauffer Chemical Company: *See*—
Davies, Newell A., assignor.
Mohr, Albert C., assignor.

Steibel, James P., and S. Martinson, Racine, Wis. Measuring device. 2,391,075; Dec. 18.

Stenger, Victor R.: *See*—
Dour, N. F., and Stenger.

Stephens, William T., assignor to Hydraulic Control Engineering Company, Cleveland, Ohio. Hydraulic fluid motor. 2,391,360; Dec. 18.

Stettner, Harlow J.: *See*—
Schubert, A. E. Hintz, and Stettner.

Stevens, Daniel S., Chicago, Ill. Device for positioning colorimeter cells. 2,391,076; Dec. 18.

Stevenson, Walter J., Riverside, assignor to Watchemoket Optical Co., Inc., Providence, R. I. Goggle. 2,391,361; Dec. 18.

Stienen, Ernest A., Yorktown, N. Y. Air current locking device. 2,391,107; Dec. 18.

Sticht, Otto W., Orange, N. J. Making brushes. 2,391,077; Dec. 18.

Stokes, F. J., Machine Company: *See*—
Strauss, William, assignor.

Strauss, William, Philadelphia, Pa., assignor to F. J. Stokes Machine Company. Operation check and control system for molding machines. 2,391,362; Dec. 18.

Stuart, Clarence C., Pontiac, assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Transport vehicle. 2,391,363; Dec. 18.

Sylvania Electric Products Inc.: *See*—
Maurette, René G., assignor.

Tarwater, Lawson, and W. R. McKenzie, assignors of ten per cent to Six Wheels, Inc., Los Angeles, Calif. Lock nut. 2,391,279; Dec. 18.

Taylor, Taylor & Hobson Limited: *See*—
Clifford, Thomas W., assignor.
Warmisham, Arthur, assignor.

Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Forming layers for electronic cathodes. 2,391,280; Dec. 18.

Teletype Corporation: *See*—
Lake, Ross A., assignor.

Tellander, Frederic, Franklin Park, and O. E. Wagenknecht, assignors to Zenith Radio Corporation, Chicago, Ill. Telescopic rod antenna. 2,391,202; Dec. 18.

Terry, Bennett F., Stamford, Conn. Camera. 2,391,044; Dec. 18.

Thacker, Carlisle M.: *See*—
Folkins, H. O., and Thacker.

Thomas, David E. F.: *See*—
Komives, L. I., Courtis, and Thomas.

Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for treating evaporated milk. 2,391,203; Dec. 18.

Thompson Grinder Company, The: *See*—
Wilson, John C., assignor.

Thompson, Harry H., assignor to Wingfoot Corporation, Akron, Ohio. Plasticizing copolymers. 2,391,281; Dec. 18.

Thomsen, Alfred M., San Francisco, Calif. Apparatus for power development. 2,391,078; Dec. 18.

Threlkeld, Clarence D., Bellingham, Wash. Twine holder. 2,391,364; Dec. 18.

Tillyer, Edgar D., assignor to American Optical Company. Southbridge, Mass. Ophthalmic lens. 2,391,045; Dec. 18.

Timken-Detroit Axle Company, The: *See*—
Buckendale, Lawrence R., assignor.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,391,046; Dec. 18.

Tinnerman Products, Inc.: *See*—
Tinnerman, George A., assignor.

Tomlinson, John R.: *See*—
Bollo, F. G., and Tomlinson.

Trainer, James E., Fairlawn, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid cooled wall. 2,391,108; Dec. 18.

Transit Research Corporation: *See*—
Piron, Emil H., assignor.

Treff, Alfred: *See*—
Pearson, P. E., and Treff.

Trico Products Corporation: *See*—
Rappl, Anton, assignor.

Troglione, Vincent R.: *See*—
Loftus, F. H., and Troglione.

Turner, Benjamin H., and G. B. S. Falkiner, Broadway, Sydney, assignors to The Turner Parachute Pty. Limited, Sydney, New South Wales, Australia. Quick release box for parachute harness. 2,391,204; Dec. 18.

Turner Parachute Pty. Limited, The: *See*—
Turner, B. H., and Falkiner, assignors.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detector for looms. 2,391,365; Dec. 18.

Tuttle, William E., and W. J. Beldue, assignors to The Kurlash Company, Inc., Rochester, N. Y. Eyelash curler. 2,391,047; Dec. 18.

Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Chemical reactions. 2,391,366; Dec. 18.

Underwood Corporation: *See*—
Kuhl, Frank P., assignor.

Underwood, George J., Chicago, Ill., assignor to Hercules Powder Company, Wilmington, Del. Resin composition. 2,391,368; Dec. 18.

Union Switch & Signal Company, The: *See*—
Martin, Paul N., assignor.
Volz, Carl, assignor.

United Aircraft Corporation: *See*—
Martin, Erie, assignor.

United Gas Improvement Company, The: *See*—
Breuer, Frederick W., assignor.

United Shoe Machinery Corporation: *See*—
Bell, C. C., and Goodhue, assignors.

Universal Oil Products Company: *See*—
Hulsberg, William E., assignor.
Mekler, Lev A., assignor.

Valenzano, Michael: *See*—
Minichello, Peter J., assignor.

Van Cleef, Robert S., Memphis, Tenn. Tieback for curtains. 2,391,205; Dec. 18.

Van der Pyl, Edward, Holden, assignor to Norton Company, Worcester, Mass. Apparatus for making abrasive articles. 2,391,206; Dec. 18.

Van Dyck, Arthur, New York, N. Y., assignor to Radio Corporation of America. Harbor navigation system. 2,391,079; Dec. 18.

Van Orman, Ward T., assignor to Wingfoot Corporation, Akron, Ohio. Structure. 2,391,282; Dec. 18.

Van Patten, Charles D., Flint, Mich. Marine propulsion. 2,391,109; Dec. 18.

Van Schaack, Edward, Spokane, Wash. Electric heater. 2,391,207; Dec. 18.

Vapor Car Heating Company, Inc.: *See*—
Peterson, W. B., and La Rocque, assignors.

Vaucher, Eric, Biel, Switzerland. Card ledger. 2,391,080; Dec. 18.

Vickers, Incorporated: *See*—
Pohl, Walter M., assignor.

Volz, Carl, Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Code detecting means. 2,391,369; Dec. 18.

Von Capeller, R.: *See*—
Dannaer, J., and von Capeller.

Von Hofe, George W., Bound Brook, N. J., and E. M. Lakso, Fitchburg, Mass., assignors to New Jersey Machine Corporation, Hoboken, N. J. Handling ammunition. 2,391,081; Dec. 18.

Voss, Edwin W., Orange, N. J., assignor to Spray Process Co. Inc., New York, N. Y. Spraying device for divided solid materials. 2,391,048; Dec. 18.

Wagenknecht, Otto E.: *See*—
Tellander, F., and Wagenknecht.

Wagner Electric Corporation: *See*—
Schnell, Steve, assignor.

Wakefield, C. C., & Company Limited: *See*—
Helmore, William, assignor.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft replenishing loom. 2,391,370; Dec. 18.

Walker, James L., Baytown, Tex., assignor to Standard Oil Development Company. Mixing device. 2,391,110; Dec. 18.

Wallace & Tiernan Products, Inc.: *See*—
MacKay, John R., assignor.

Walter, Leo N., Oak Glenn, Ill. Heater construction. 2,391,111; Dec. 18.

Walton, George M., Shaker Heights, assignor to Air-Maze Corporation, Cleveland, Ohio. Oil separator. 2,391,208; Dec. 18.

War, United States of America, as represented by the Secretary of: *See*—
Eyler, Lawrence J., assignor.

Ward Leonard Electric Company: *See*—
Stapleton, George M., assignor.

Warmisham, Arthur, and C. G. Wynne, assignors to Kapella Limited, Leicester, England. Optical objective. 2,391,210; Dec. 18.





Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,391,209; Dec. 18.

Warner, John G.: *See*—
Ewing, F. J., Secor, and Warner.

Watchemoket Optical Co., Inc.: *See*—
Stevenson, Walter J., assignor.

Watt, Percy G., Palmerston, Ontario, Canada. Dentifrice and toothbrush container. 2,391,371; Dec. 18.

Watts, Rhea N.: *See*—
Spicer, W. E., and Watts.

Weber, Arthur G., Wilmington, and M. D. Peterson, Edgemoor Terrace, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of benzene. 2,391,283; Dec. 18.

Weigand, Maurice E., Dover, Ohio. Tractor stabilizer. 2,391,372; Dec. 18.

Weiller, Charles R., Louisville, Ky., assignor to Reynolds Metals Co., Richmond, Va. Internally insulated structural unit. 2,391,049; Dec. 18.

Weiss, Floyd F., Denver, Colo. Hair curler. 2,391,284; Dec. 18.

Western Electric Company, Incorporated: *See*—
Frankwich, Alexander C., assignor.

Weyerts, Walter J.: *See*—
Minsk, L. M., Weyerts, and McDowell.

White, Emory O., Albertville, Ala. Air operated pump for filling stations and the like. 2,391,211; Dec. 18.

Wickesser, Arthur: *See*—
De Giers, C. A., and Wickesser.

Wickstrum, Cecil M., Omaha, Nebr. Outlet flange for tanks. 2,391,373; Dec. 18.

Wickstrum, Cecil M., Omaha, Nebr. Portable storage tank. 2,391,374; Dec. 18.

Williams, Francis J., Port Washington, N. Y., and M. Kaplan, Trenton, N. J.; said Williams assignors to National Lead Company, New York, N. Y. Container and closure therefor. 2,391,212; Dec. 18.

Williams, Miles H., Los Angeles, Calif. Brake shoe assembling and disassembling device. 2,391,213; Dec. 18.

Williams, Vernon H.: *See*—
Bryce, G., and Williams.

Williamson, Marshall I., New York, N. Y., and R. Fink, Easthaven, Conn., assignors to National Folding Box Company, New Haven, Conn. Display container and blank therefor. 2,391,285; Dec. 18.

Wilputte Coke Oven Corporation: *See*—
Wilputte, Louis, assignor.

Wilputte, Louis, assignor to Wilputte Coke Oven Corporation, New York, N. Y. Combination coke oven door-handling, pushing, and leveling machine. 2,391,214; Dec. 18.

Wilson, Carroll J.: *See*—
McNab, J. G., Wilson, and Winning.

Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Spindle shaft with intermediate ball bearing. 2,391,375; Dec. 18.

Winans, Charles F.: *See*—
Clifford, A. M., and Winans.

Windsor, George H., Tujunga, Calif. Litter supporting apparatus. 2,391,051; Dec. 18.

Wingfoot Corporation: *See*—
Clifford, A. M., and Gleim, assignors.
Clifford, A. M., and Winans, assignors.
Hardman, Albert F., assignor.
Long, John R., assignor.
Milone, Charles R., assignor.
Shaw, Elgin L., assignor.
Thompson, Harry H., assignor.
Van Orman, Ward T., assignor.

Winning, Carl: *See*—
McNab, J. G., Wilson, and Winning.

Wolf, Charles, Portland, Oreg. Falling saw. 2,391,286; Dec. 18.

Wolteger, Zygmunt and H. Lerer, New York, N. Y. First aid kit. 2,391,112; Dec. 18.

Wynne, Charles G.: *See*—
Warmisham, A., and Wynne.

Yale & Towne Manufacturing Company, The: *See*—
Carline, O. S., and Roper, assignors.

Zabel, William C. P., and R. C. Helfenbein, Chicago, Ill. Culinary utensil. 2,391,215; Dec. 18.

Zenith Radio Corporation: *See*—
Tellander, F., and Wagenknecht, assignors.

Zimmer, John C., Union, and A. J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Lubricating composition. 2,391,113; Dec. 18.

# LIST OF DESIGN INVENTIONS

Bag, Herb. J. E. Vivaudou. 143,255; Dec. 18.
Bag, Sachet. J. E. Vivaudou. 143,252–3; Dec. 18.
Bath tub. E. L. Fleischhauer. 143,204; Dec. 18.
Blade or similar article, Whipper. F. K. Storm. 143,247; Dec. 18.
Bottle and can opener, Folding combination. V. C. Porter. 143,241; Dec. 18.
Bottle opener and cutter or similar article, Combined. J. G. Moore. 143,233; Dec. 18.
Bracket, Handle cover. F. F. Pfefferkorn. 143,238; Dec. 18.
Brooch or similar article. A. Katz. 143,211–22; Dec. 18.
Brooch or similar article, Separable. A. Katz. 143,223–4; Dec. 18.
Cabinet, Display. M. M. Drogin. 143,192–3; Dec. 18.
Cabinet, Game. N. A. Nelson. 143,236; Dec. 18.
Cards, Deck of playing. A. Poggi, D. Jordon, and A. Chuka. 143,240; Dec. 18.
Case, Handkerchief. J. E. Vivaudou. 143,251; Dec. 18.
Case, Hand luggage. G. G. Barton. 143,179; Dec. 18.
Case, Sachet. J. E. Vivaudou. 143,254; Dec. 18.
Coat or similar article. S. Karp. 143,209–10; Dec. 18.
Display device, Illuminable. F. C. Reinshield. 143,242; Dec. 18.
Earring. A. Katz. 143,225; Dec. 18.
Earring. F. Morrow. 143,235; Dec. 18.
Fabric. R. Solomon. 143,244; Dec. 18.
Fabric or similar article, Textile. A. Samstag. 143,243; Dec. 18.
Frame, Picture. S. Colef. 143,187–90; Dec. 18.
Handbag. M. M. Deutz. 143,191; Dec. 18.
Handbag. L. Kaufman. 143,226–7; Dec. 18.
Handle, Kitchen utensil. F. K. Storm. 143,248–50; Dec. 18.
Jacket. N. Finkelstein. 143,194–5; Dec. 18.
Knife and bayonet, Combination utility. J. Levering. 143,228; Dec. 18.
Lamp or similar article. W. H. Miller. 143,232; Dec. 18.
Ornament, Two-piece hair. J. Halpern. 143,208; Dec. 18.
Padlock. H. E. Soref. 143,245–6; Dec. 18.
Pedestal for stamping machine. C. K. Greene. 143,207; Dec. 18.
Pin or similar article, Jewelry. F. Morrow. 143,234; Dec. 18.
Recorder and reproducer or similar article, Combination magnetic. M. Camras. 143,182; Dec. 18.
Recorder or similar article, Magnetic. M. Camras. 143,183; Dec. 18.
Sign board, Advertising. J. S. Batt. 143,180; Dec. 18.
Stand, Cosmetic color selection. J. Brodour. 143,181; Dec. 18.
Stand or similar article, Display. F. Frederics. 143,202–3; Dec. 18.
Stand, Smoker's. O. C. Funderburk. 143,205; Dec. 18.
Stand, Smoker's. O. Mankki. 143,230; Dec. 18.
Stand, Tip lid for smoker's. O. Mankki. 143,229; Dec. 18.
Suit. S. Cohen. 143,184–6; Dec. 18.
Suit. J. Freedman. 143,196–201; Dec. 18.
Teaching lacing, Device for. T. A. Pares. 143,237; Dec. 18.
Tool, Pipe threading. W. A. Phillis. 143,239; Dec. 18.
Tumbler. S. L. Gerson. 143,206; Dec. 18.
Urn. O. Mankki. 143,231; Dec. 18.
Vehicle body. G. W. Walker. 143,256; Dec. 18.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator, Stacker. H. S. Ladomoarce. 2,391,170; Dec. 18.
Acid-activated montmorillonite clay, Extruding. L. V. Horn. 2,391,050; Dec. 18.
Acid anhydride, Preparing a cyclic dicarboxyl. A. M. Clifford and C. E. Gleim. 2,391,226; Dec. 18.
Acids, and preparing same, Derivatives of fatty. J. R. Long. 2,391,251; Dec. 18.
Acids, Preparation of. E. P. Bartlett. 2,391,219; Dec. 18.
Acids, Production of solidifying thickened and solid masses from esters of unsaturated fatty. P. Stamberger. 2,391,042; Dec. 18.
Adhesive tape dispensing device. P. S. Madsen. 2,391,062; Dec. 18.
Adjusting mechanism, Range finder. J. W. Gillon. 2,391,152; Dec. 18.
Adsorbent, Producing granular. K. D. Ashley. 2,391,116; Dec. 18.
Air current locking device. E. A. Stiemen. 2,391,107; Dec. 18.
Alkaloid and producing the same. K. Folkers and J. Shavel, Jr. 2,391,015; Dec. 18.
Alkaloidal "free" fraction from species of erythrina and its production. K. Folkers. 2,391,014; Dec. 18.
Alkaloids from erythrina species, Physiologically active. K. Folkers and F. Koniuszy. 2,391,013; Dec. 18.
Alkylated aryl compounds, Production of. H. O. Folkins and C. M. Thacker. 2,391,146; Dec. 18.
Amides. W. J. Peppel. 2,391,267; Dec. 18.
Ammunition, Handling. G. W. von Hofe and E. E. Lakso. 2,391,081; Dec. 18.
Antenna, Shielded loop. W. D. McGuigan. 2,391,026; Dec. 18.
Antenna, Telescopic rod. F. Tellander and O. E. Wagenknecht. 2,391,202; Dec. 18.
Apparatus for flame cultivation of plants. P. C. McLemore and V. Knudsen. 2,391,027; Dec. 18.
Apparatus for lifting and transferring materials. A. M. Carter. 2,391,224; Dec. 18.
Apparatus for making abrasive articles. E. Van der Pyl. 2,391,206; Dec. 18.
Apparatus for making shoe soles. G. Codish. 2,390,991; Dec. 18.
Apparatus for photographic composition. E. G. Klingberg, F. Stadelmann, and H. R. Freund. 2,391,021; Dec. 18.
Apparatus for power development. A. M. Thomsen. 2,391,078; Dec. 18.
Apparatus for refining sublimable mtaerial. F. J. Hansgirg. 2,391,156; Dec. 18.
Apparatus for repairing pneumatic tire casings. J. J. Dettling. 2,391,300; Dec. 18.
Apparatus for testing cans for leaks. J. E. Schmidt. 2,391,351; Dec. 18.
Apparatus for testing the fire-resistance of materials. E. E. Hubert. 2,391,161; Dec. 18.
Apparatus for the liquid treatment of fibrous material. E. Knight. 2,391,096; Dec. 18.
Apparatus for treating evaporated milk. A. R. Thompson. 2,391,203; Dec. 18.
Arm for oxy-acetylene cutting machines, Torch supporting. J. Bucko. 2,391,008; Dec. 18.
Armor. H. W. Sheridan. 2,391,353; Dec. 18.
Armored conductor structure. O. E. Rasmussen. 2,391,036; Dec. 18.
Armored conductor structure. I. C. Shafer, Jr. 2,391,037; Dec. 18.
Arylamides, Alkylating. J. B. Dickey and J. G. McNally. 2,391,139; Dec. 18.
Automatic golf ball teeing device. L. Gale. 2,390,998; Dec. 18.
Automatic tool block. S. L. Casella. 2,390,989; Dec. 18.
Automobile trunk loading device. L. B. Heller. 2,391,310; Dec. 18.
Baler, Rotary. P. H. Harrer. 2,391,018; Dec. 18.
Ball bearing. K. A. Kall. 2,391,245; Dec. 18.
Battery, Secondary. P. Arnoldi. 2,391,001; Dec. 18.
Beam, Composite. T. A. B. Legowik. 2,391,250; Dec. 18.
Bearing: *See*—
  Ball bearing.
Bearing clutch. E. P. Schmidt. 2,391,350; Dec. 18.
Benzene, Hydrogenation of. A. G. Weber and M. D. Peterson. 2,391,283; Dec. 18.
Beverage mixing machine. C. H. Miller. 2,391,066; Dec. 18.
Blank feeding apparatus. H. A. Fink. 2,391,304; Dec. 18.
Block: *See*—
  Automatic tool block.
Board: *See*—
  Game board.
Boat cover. F. D. Burns. 2,390,986; Dec. 18.
Bolt. S. T. and F. L. Farrell. 2,391,232; Dec. 18.
Bomb release. L. J. Eyler. 2,391,012; Dec. 18.
Bomb, Thermit. R. C. Hurrey. 2,391,242; Dec. 18.
Book, Combination miner's check. J. A. Daly. 2,391,136; Dec. 18.
Book, Multiple payment coupon. E. A. Kelly. 2,391,054; Dec. 18.
Box: *See*—
  Tablet box.
Box construction. W. F. Newhouse. 2,391,032; Dec. 18.
Brake control mechanism. R. B. Grontkowski. 2,391,017; Dec. 18.
Brake mechanism. A. C. Chambers. 2,391,129; Dec. 18.
Brake shoe assembling and disassembling device. M. H. Williams. 2,391,213; Dec. 18.
Brake shoes, Centralizing. S. Schnell. 2,391,074; Dec. 18.
Brushes, Making. O. W. Sticht. 2,391,077; Dec. 18.
Burner: *See*—
  Horizontal pot type burner.
Burner control system. J. B. Boyer. 2,390,985; Dec. 18.
Butadiene contaminated with monovinylacetylene, Refining. F. W. Breuer. 2,391,004; Dec. 18.
Butadiene, Production of. C. E. Ayres. 2,391,117; Dec. 18.
Butadiene production. R. J. Patterson. 2,391,188; Dec. 18.
Cabin pressure of aircraft, System for controlling. L. N. Schwien. 2,391,197; Dec. 18.
Calculating machine. A. B. Machado. 2,391,098; Dec. 18.
Camera. B. F. Terry. 2,391,044; Dec. 18.
Carbon black, Method and apparatus for the production of. P. H. Mitchell. 2,391,067; Dec. 18.
Carbonating apparatus. W. W. Bowman. 2,391,003; Dec. 18.
Car-bottom furnace. F. H. Loftus and V. R. Troglione. 2,391,173; Dec. 18.
Carton, Ammunition. H. K. Dickerman. 2,391,230; Dec. 18.
Catalytic reactions. C. R. Milone. 2,391,261; Dec. 18.
Catalyst and forming catalysts. F. J. Ewing, R. B. Secor, and J. G. Warner. 2,391,312; Dec. 18.
Catalyst, Preparing. W. E. Spicer and R. N. Watts. 2,391,358; Dec. 18.
Centering means for boring machines. W. F. Mitchell. 2,391,183; Dec. 18.
Center of gravity location indicator. C. R. McWhorter. 2,391,257; Dec. 18.
Center-of-gravity location indicator. J. H. Hutton. 2,391,243; Dec. 18.
Check and control system for molding machines, Operation. W. Strauss. 2,391,362; Dec. 18.
Chemical reactions. C. W. Tyson. 2,391,366; Dec. 18.
Cigar binders and the like, Paster for. S. Clausen. 2,391,294; Dec. 18.
Circuits, Thermionic valve receiving. P. K. Chatterjea and C. T. Scully. 2,391,130; Dec. 18.
Clamp: *See*—
  Hose clamp.
Cleaner for type-casting machines, Knife. H. W. Michalke. 2,391,259; Dec. 18.
Closure means for fiber containers. J. Coyle. 2,391,296; Dec. 18.
Clutch: *See*—
  Bearing clutch. Synchronizing clutch.
Clutch. R. A. Carlson. 2,391,124; Dec. 18.
Clutch control mechanism. H. W. Price. 2,391,192; Dec. 18.
Coat. M. D. Schwartz. 2,391,352; Dec. 18.
Coating metal articles. R. A. Schaefer. 2,391,039; Dec. 18.
Coatings, Antihalation. E. K. Carver. 2,391,127; Dec. 18.
Code detecting means. C. Volz. 2,391,369; Dec. 18.
Coil supporting reel. F. M. Littell. 2,391,321; Dec. 18.
Combination coke oven door-handling, pushing, and leveling machine. L. Wilputte. 2,391,214; Dec. 18.
Compounds, Anthraquinone. J. B. Dickey and J. R. Byers, Jr. 2,391,011; Dec. 18.
Connecting pin holder. C. W. Mott. 2,391,100; Dec. 18.
Connection for electrical machines, Conductor. G. R. Anderson. 2,391,115; Dec. 18.
Connector: *See*—
  Timber connector.

Container: *See*—
Crown capped container.
Dentifrice and toothbrush container.
Container and closure therefor. F. J. Williams and M. Kaplan. 2,391,212; Dec. 18.
Container for sterile compresses, Dispensing. M. McI. Dukehart, Jr. 2,391,301; Dec. 18.
Container vacuumizing and closing machine. A. L. Kronquest. 2,391,319; Dec. 18.
Control for record handling and copying apparatus. A. E. Schubert, H. P. Hintz, and H. J. Stettner. 2,391,274; Dec. 18.
Control for refrigerator cars, Temperature. C. A. de Giers and A. Wickesser. 2,390,993; Dec. 18.
Control system. L. Day. 2,391,228; Dec. 18.
Conveyer. D. Rose. 2,391,272; Dec. 18.
Conveying apparatus, Commodity. C. H. Carpenter. 2,391,125; Dec. 18.
Copolymers, Plasticizing. H. H. Thompson. 2,391,281; Dec. 18.
Coupling: *See*—
Hose coupling. Self-sealing coupling.
Cover: *See*—
Boat cover.
Cover for typewriter machines and the like, Folding. J. G. Cabrera. 2,390,987; Dec. 18.
Covering for aircraft surfaces and the like, Protective. W. H. Hunter. 2,391,241; Dec. 18.
Creel, Spinning frame. L. M. Cotchett. 2,391,295; Dec. 18.
Crown cap spotting apparatus. P. E. Pearson. 2,391,340; Dec. 18.
Crown capped container. W. F. Punte. 2,391,346; Dec. 18.
Crystal inspection device. J. R. Prall. 2,391,344; Dec. 18.
Curler, Eyelash. W. R. Tuttle and W. J. Belduc. 2,391,047; Dec. 18.
Curler, Hair. F. F. Weiss. 2,391,284; Dec. 18.
Cutoff tool. G. A. Cole. 2,391,133; Dec. 18.
Damper and shutter for regulating the passage of a medium. D. Dalin. 2,391,010; Dec. 18.
Decapper, Egg. H. O. Koch. 2,391,169; Dec. 18.
Dental tool sharpening device. C. A. Miller and S. L. Border. 2,391,260; Dec. 18.
Dentifrice and toothbrush container. P. G. Watt. 2,391,371; Dec. 18.
Device for divided solid materials, Spraying. E. W. Vose. 2,391,048; Dec. 18.
Device for positioning colorimeter cells. D. S. Stevens. 2,391,076; Dec. 18.
Device for television systems, Monitoring. T. T. Goldsmith, Jr. 2,391,090; Dec. 18.
Device for vehicles, Street indicating. H. C. Smith. 2,391,355; Dec. 18.
Diolefins, Manufacture of. H. J. Hepp. 2,391,158; Dec. 18.
Dispensing container, Self-closing top and. W. F. Punte. 2,391,345; Dec. 18.
Dispensing system and apparatus, Food. J. Anchor. 2,391,287; Dec. 18.
Display container and blank therefor. M. I. Williamson and R. Fink. 2,391,285; Dec. 18.
Doll. A. L. Clark. 2,391,131; Dec. 18.
Drier. J. O. Ross and J. F. Gschwind. 2,391,195; Dec. 18.
Drive fastener. F. L. Davis. 2,391,298; Dec. 18.
Drying oils, varnishes, and lacquers, Production of water dispersions of. P. Stamberger. 2,391,041; Dec. 18.
Duster. V. A. Potholm. 2,391,070; Dec. 18.
Dyestuffs, Metallizable triazine azo. O. Kaiser. 2,391,164; Dec. 18.
Dynamometer. H. M. Martin. 2,391,024; Dec. 18.
Electric control circuit. M. E. Bivens. 2,390,982; Dec. 18.
Electric heater. E. Van Schaack. 2,391,207; Dec. 18.
Electric induction apparatus. F. R. D'Entremont. 2,391,229; Dec. 18.
Electric motor. J. C. Bryan. 2,391,005; Dec. 18.
Electric switching system. J. F. McKenney. 2,391,256; Dec. 18.
Electric weft detector for looms. R. G. Turner. 2,391,365; Dec. 18.
Electrical device. C. M. Rifenbergh. 2,391,038; Dec. 18.
Electrical instrument and system. F. J. Lingel. 2,391,058; Dec. 18.
Electrical ratio meter. K. J. Knudsen. 2,391,168; Dec. 18.
Electrical telemetering system. F. J. Lingel. 2,391,057; Dec. 18.
Electrically heated device. B. P. McKinley. 2,391,065; Dec. 18.
Electromagnetic device. G. M. Stapleton. 2,391,277; Dec. 18.
Electromagnetic devices, Making. D. G. Blattner. 2,391,222; Dec. 18.
Electronic cathodes, Forming layers for. G. K. Teal. 2,391,280; Dec. 18.
Elevator, Bale. L. Jackson. 2,391,053; Dec. 18.
Emetic manufacture, Tartar. N. A. Davies. 2,391,297; Dec. 18.
Emulsions of liquid explosives, Transport of aqueous. G. Brice and V. H. Williams. 2,391,006; Dec. 18.
Engine: *See*—
Internal-combustion engine.
Ethylene, Polymerization and interpolymerization of. R. G. R. Bacon and R. B. Richards. 2,391,218; Dec. 18.
Fastener: *See*—
Drive fastener.
Fastening device. G. A. Tinnerman. 2,391,046; Dec. 18.
Fastening devices, Stud member for quick detachable. W. H. Barlow. 2,391,288; Dec. 18.
Feed means for cleaning machines. J. F. Malsbary. 2,391,177; Dec. 18.
Filter: *See*—
Oil filter.
Fish pick. M. Niemi. 2,391,185; Dec. 18.
Fixture, Grinding. C. H. Klein. 2,391,317; Dec. 18.
Flow regulating system. D. Gregg. 2,391,306; Dec. 18.
Fluid, Compressing. S. E. Jessup. 2,391,163; Dec. 18.
Fluid feeding and distributing apparatus. H. R. Lownsbery. 2,391,174; Dec. 18.
Fluid pressure electrical switch. J. M. Nye. 2,391,068; Dec. 18.
Fluid seal. R. Hermansen. 2,391,150; Dec. 18.
Fluorine containing azo compounds. J. G. McNally and J. R. Byers, Jr. 2,391,179; Dec. 18.
Flux measurement. T. A. Rich. 2,391,271; Dec. 18.
Footwear. R. Maling. 2,391,023; Dec. 18.
Frame: *See*—
Spinning frame.
Fuel control system for internal-combustion engines. F. G. Rollo and J. R. Tomlinson. 2,391,291; Dec. 18.
Fuel, Knock-resistant motor. D. R. Carmody. 2,391,084; Dec. 18.
Furnace: *See*—
Hot air heating furnace.
Furnace. I. W. Foltz. 2,390,995; Dec. 18.
Game board. J. A. Fredriksson. 2,391,147; Dec. 18.
Gasoline, Deleading. G. Calingaert, H. Soroos, and H. Shapiro. 2,390,988; Dec. 18.
Gauge: *See*—
Micrometer gauge.
Gear unit, Air-cooled reduction. W. Noble. 2,391,186; Dec. 18.
Gear: *See*—
Pneumatic flotation gear.
Generator for spectrographic analyses, Spark. H. L. Clark. 2,391,225; Dec. 18.
Glove, Baker's safety. A. Morton. 2,391,263; Dec. 18.
Goggle. E. A. Ring. 2,391,349; Dec. 18.
Goggle. W. J. Stevenson. 2,391,361; Dec. 18.
Guard, Adjustable window. J. F. Smith. 2,391,201; Dec. 18.
Guard, Dust. D. D. Bryant. 2,391,121; Dec. 18.
Gun sighting device. C. C. Bell and W. V. Goodhue. 2,390,980; Dec. 18.
Hams and preparation thereof. E. C. Oswald and E. G. Lewis. 2,391,338; Dec. 18.
Hanging means, Window drape rod. F. X. Ganter. 2,391,150; Dec. 18.
Harbor navigation system. A. Van Dyck. 2,391,079; Dec. 18.
Hawsepipe. K. Berger. 2,391,290; Dec. 18.
Head protector. P. C. O'Brien. 2,391,335; Dec. 18.
Heat exchanger. J. O. Jackson. 2,391,244; Dec. 18.
Heat motor. W. R. Peterson and J. E. La Rocque. 2,391,342; Dec. 18.
Heater: *See*—
Electric heater.
Heater. E. Esson. 2,391,144; Dec. 18.
Heater and circulator for can and drying machines, Air. P. E. Pearson. 2,391,339; Dec. 18.
Heater construction. L. N. Walter. 2,391,111; Dec. 18.
Heating apparatus. W. R. Price. 2,391,071; Dec. 18.
Herbicide. C. De Laney. 2,391,290; Dec. 18.
Hetero-oxygen compounds, Monoazo. J. Danusser and R. von Capeller. 2,391,137; Dec. 18.
High-frequency tube structure. E. L. Ginzton and W. W. Hansen. 2,391,016; Dec. 18.
High pressure shutoff valve. D. A. Stark. 2,391,278; Dec. 18.
Hoisting mechanism. G. H. Leland. 2,391,172; Dec. 18.
Holder: *See*—
Connecting pin holder. Tool holder.
Nursing bottle holder. Twine holder.
Holder for electrodes and welding rods. H. F. Fuller. 2,390,997; Dec. 18.
Hop picking machine, Stationary type. F. F. Dauenhauer. 2,391,138; Dec. 18.
Horizontal pot type burner. S. Perry. 2,391,069; Dec. 18.
Hose clamp. C. E. Hathorn. 2,391,235; Dec. 18.
Hose coupling. P. S. Madsen. 2,391,063; Dec. 18.
Hot air heating furnace. J. C. Miles. 2,391,028; Dec. 18.
Hydraulic arbor press. H. E. Page. 2,391,187; Dec. 18.
Hydraulic fluid motor. W. T. Stephens. 2,391,360; Dec. 18.
Hydraulic pump. C. A. Pugh. 2,391,072; Dec. 18.
Hydraulic retractor control. W. M. Pohl. 2,391,035; Dec. 18.
Hydrocarbon containing organically combined fluorine, Treating. F. E. Frey. 2,391,149; Dec. 18.
Hydrocarbon fluids, Treating. E. W. S. Nicholson. 2,391,334; Dec. 18.
Hydrocarbon oil, Compounded. J. F. Nelson and L. A. Mikeska. 2,391,184; Dec. 18.





Hydrocarbons, Oxidation of paraffinic. S. Hirsch. 2,391,236; Dec. 18.
Hydrocarbons, Separation and purification of. J. A. Patterson. 2,391,102; Dec. 18.
Hygroscopic plastics, Drying. R. T. Northcutt and R. T. Northcutt, Jr. 2,391,033; Dec. 18.
Idler for conveyer belts, Self-aligning. E. E. Landahl. 2,391,249; Dec. 18.
Impeller wheels, Method of and apparatus for making. C. B. De Vlieg. 2,390,994; Dec. 18.
Indicator: *See*—
Center-of-gravity location indicator.
Injection valve spark plug. L. Beeh. 2,391,220; Dec. 18.
Inner sole and making the same. F. L. Ayers. 2,391,217; Dec. 18.
Insulating composition, Machinable. A. J. Monack. 2,391,376; Dec. 18.
Interlayers in multilayer film, Sensitive. M. W. Seymour. 2,391,198; Dec. 18.
Internal-combustion engine. M. Mallory. 2,391,176; Dec. 18.
Interpolymers of isobutylene with vinyl methacrylate and their preparation. D. W. Huebner and J. E. Fearey. 2,391,162; Dec. 18.
Isomerization process. S. F. Perry. 2,391,189; Dec. 18.
Isoquinoline, Separation of. F. E. Reimers. 2,391,270; Dec. 18.
Keyboard perforator. R. A. Lake. 2,391,056; Dec. 18.
Keyboard release mechanism. C. M. Friden and A. B. Machado. 2,391,089; Dec. 18.
Kit, First aid. Z. Wolteger and H. Lerer. 2,391,112; Dec. 18.
Latch for screen doors and the like. H. Bloss. 2,390,984; Dec. 18.
Latex, Coagulation of castillos. T. F. Ford. 2,390,996; Dec. 18.
Lead salicylate compositions and preparing same. L. M. Kebrich. 2,391,166; Dec. 18.
Ledger, Card. E. Vaucher. 2,391,060; Dec. 18.
Lens, Ophthalmic. E. D. Tillyer. 2,391,045; Dec. 18.
Lighting device. R. G. Maurette. 2,391,325; Dec. 18.
Link, Yield. E. L. Shaw. 2,391,275; Dec. 18.
Liquefied gas systems, Poppet changeover for. T. A. St. Clair. 2,391,043; Dec. 18.
Liquid-elevating apparatus. J. C. Reed. 2,391,105; Dec. 18.
Litter supporting apparatus. G. H. Windsor. 2,391,051; Dec. 18.
Lock: *See*—
Washer and cotter pin lock.
Lock and switch, Ignition. R. J. Beagles. 2,391,119; Dec. 18.
Loom: *See*—
Weft replenishing loom.
Lubricating composition. W. Helmore. 2,391,311; Dec. 18.
Lubricating composition. J. C. Zimmer and A. J. Morway. 2,391,113; Dec. 18.
Lubricating system for aircraft superchargers. W. H. Allen. 2,391,000; Dec. 18.
Machine for applying sealing compound to container ends. P. F. Pearson and A. Treff. 2,391,341; Dec. 18.
Machine safety mechanism, Wrapping. T. Jensen. 2,391,316; Dec. 18.
Magnesium, Production of. J. C. Rademaker. 2,391,193; Dec. 18.
Marine propulsion. C. D. Van Patten. 2,391,109; Dec. 18.
Measuring device. J. P. Stelbel and S. Martinson. 2,391,075; Dec. 18.
Mechanism for firearms, Hammer. T. F. Horan. 2,391,237; Dec. 18.
Meter: *See*—
Electrical ratio meter.
Micrometer gauge. J. J. Jackman. 2,391,020; Dec. 18.
Mitt, Toe. E. S. McCandless. 2,391,064; Dec. 18.
Mixing device. J. L. Walker. 2,391,110; Dec. 18.
Molding, Pressure. C. C. Misfeldt. 2,391,182; Dec. 18.
Motor: *See*—
Electric motor. Hydraulic fluid motor.
Heat motor. Pyromagnetic motor.
Motor control system. J. D. Lewis. 2,391,320; Dec. 18.
Motor with separate drive shafts. E. H. Piron. 2,391,103; Dec. 18.
Multiple pump. L. Beeh. 2,391,221; Dec. 18.
Music turner, Sheet. A. Maletta. 2,391,175; Dec. 18.
Nozzle, Signaling. F. P. Scully. 2,391,040; Dec. 18.
Nursing bottle holder. F. Nickelson. 2,391,264; Dec. 18.
Nut, Lock. L. Tarwater and W. R. McKenzie. 2,391,279; Dec. 18.
Nut, Sheet metal. H. B. Muster. 2,391,031; Dec. 18.
Objective, Rapid. G. H. Aklin. 2,391,114; Dec. 18.
Oil and for producing soap, Refining. B. Clayton. 2,390,990; Dec. 18.
Oil composition, Lubricating. J. G. McNab, C. J. Wilson, and C. Winning. 2,391,069; Dec. 18.
Oil filter. R. Y. Kopf. 2,391,318; Dec. 18.
Oil separator. G. M. Walton. 2,391,208; Dec. 18.
Oil solubilizing compositions. T. R. Donlan and A. Gathman. 2,391,067; Dec. 18.
Oils, Refining petroleum. A. P. Hewlett and G. E. Phillips. 2,391,091; Dec. 18.
Opener, Carton or box. C. T. Knudtson. 2,391,247; Dec. 18.
Optical objective. A. Warmisham. 2,391,209; Dec. 18.
Optical objective. A. Warmisham and C. G. Wynne. 2,391,210; Dec. 18.
Optical projection apparatus. T. W. Clifford. 2,391,132; Dec. 18.
Oscillator, Thermionic. E. L. Crandell. 2,391,085; Dec. 18.
Overcoating, Protective. L. M. Minsk, W. J. Weyerts, and W. H. McDowell. 2,391,181; Dec. 18.
Package, Prophylactic. F. G. Karg. 2,391,094; Dec. 18.
Paper container structure and end closure therefor. J. H. O'Neil. 2,391,337; Dec. 18.
Paper roll supporting rack. E. Palmer. 2,391,265; Dec. 18.
Parachute. F. E. Monks. 2,391,262; Dec. 18.
Petroleum conversion process. H. J. Ogorsaly. 2,391,336; Dec. 18.
Phenolic materials. S. P. Cauley and V. L. Shipp. 2,391,128; Dec. 18.
Phonograph, Automatic. M. W. Kenney. 2,391,246; Dec. 18.
Photoengraving. W. S. Marx, Jr. 2,391,025; Dec. 18.
Photographic stripping film. G. T. Lane. 2,391,171; Dec. 18.
Pickup construction. R. R. Raney. 2,391,348; Dec. 18.
Pigments and paints and making same. L. E. Barton. 2,391,118; Dec. 18.
Pilot finder, Variable speed-and-direction operated. O. S. Carliss and C. G. Roper. 2,391,123; Dec. 18.
Pipe fittings, Making. A. Mueller. 2,391,332; Dec. 18.
Piston ring. E. J. Conrad. 2,391,134; Dec. 18.
Plastic eye. J. S. Galeski. 2,391,305; Dec. 18.
Plate for plug-in devices, Mounting. P. N. Martin. 2,391,324; Dec. 18.
Plates for cathode ray tubes, Deflecting. R. E. Rutherford. 2,391,273; Dec. 18.
Plating, Bright copper. J. F. Beaver, Jr. 2,391,289; Dec. 18.
Plug: *See*—
Injection valve spark plug.
Pneumatic flotation gear. A. C. McKinley. 2,391,326; Dec. 18.
Pocket construction. L. Horwitz. 2,391,239; Dec. 18.
Polymerization of butadiene-1,3 hydrocarbons. E. E. Gruber. 2,391,233; Dec. 18.
Polymerized cable blocks. L. I. Komives, J. W. Courtis, and D. E. F. Thomas. 2,391,055; Dec. 18.
Polymers, Vulcanized high-pressure. H. B. Kellog and P. K. Frolich. 2,391,095; Dec. 18.
Polystyrene sheet material. W. Horback. 2,391,092; Dec. 18.
Pontoon assembly and using the same. W. W. Macfarren. 2,391,059; Dec. 18.
Portable storage tank. C. M. Wickstrum. 2,391,374; Dec. 18.
Power plant control means. E. Martin. 2,391,323; Dec. 18.
Preparation of sols. M. D. Marshall. 2,391,253–5; Dec. 18.
Press: *See*—
Hydraulic arbor press.
Projectile. P. H. Field. 2,391,303; Dec. 18.
Propane with olefins, Reacting. F. E. Frey. 2,391,148; Dec. 18.
Protector: *See*—
Head protector.
Pulleys and the like to shafts, Fixing. W. J. Evans. 2,391,302; Dec. 18.
Pump: *See*—
Hydraulic pump. Multiple pump.
Pump for filling stations and the like, Air operated. E. O. White. 2,391,211; Dec. 18.
Pyrazolones, Sulphonamido azo. J. G. McNally and J. B. Dickey. 2,391,180; Dec. 18.
Pyromagnetic motor. J. A. Hindle. 2,391,313; Dec. 18.
Rack: *See*—
Paper roll supporting rack.
Radio frequency motor control. E. L. Crandell. 2,391,086; Dec. 18.
Reactor. W. E. Hulsberg. 2,391,315; Dec. 18.
Recorder, Facsimile. W. G. H. Finch. 2,391,145; Dec. 18.
Recording and indicating system. J. R. MacKay. 2,391,060; Dec. 18.
Rectifiers. D. Rau and C. E. Peters. 2,391,194; Dec. 18.
Reel: *See*—
Coil supporting reel.
Wire winding and unwinding reel.
Reel construction. N. F. Dour and V. R. Stenger. 2,391,141; Dec. 18.
Refining operation. C. A. Hillman and D. L. Campbell. 2,391,160; Dec. 18.
Refining process. W. W. Hodgeson. 2,391,367; Dec. 18.
Refrigerating apparatus. J. L. Gibson. 2,391,151; Dec. 18.
Refrigerating apparatus. C. F. Lonthan. 2,391,252; Dec. 18.
Refrigerating apparatus. W. L. Morrison. 2,391,030; Dec. 18.
Regeneration of solid contact material. L. A. Mekler. 2,391,327; Dec. 18.
Registering device. B. L. Harriott. 2,391,309; Dec. 18.
Release box for parachute harness, Quick. B. H. Turner and G. B. S. Falkiner. 2,391,204; Dec. 18.

Resin composition. G. J. Underwood. 2,391,368; Dec. 18.
Resins, Terpene. W. H. Carmody. 2,391,293; Dec. 18.
Retaining mechanism for brake beams, Brake head. C. R. Moline. 2,391,329; Dec. 18.
Ring: *See*—
Piston ring.
Roll for belt conveyers, Idler. L. B. McKnight. 2,391,178; Dec. 18.
Rubber composition, Synthetic. R. C. Morris and E. C. Shokal. 2,391,330; Dec. 18.
Rubber, Vulcanization of. A. F. Hardman. 2,391,234; Dec. 18.
Sander, Belt. H. T. Lundquist. 2,391,322; Dec. 18.
Saponification process. S. Hirsch. 2,391,019; Dec. 18.
Saw, Falling. C. Wolf. 2,391,286; Dec. 18.
Screen. K. R. Bixby. 2,390,983; Dec. 18.
Seal, Resilient lubricant. L. R. Buckendale. 2,391,007; Dec. 18.
Selector switch. V. G. Sprague. 2,391,276; Dec. 18.
Selector valve. L. S. Sanderson. 2,391,196; Dec. 18.
Self-sealing coupling. D. W. Main. 2,391,022; Dec. 18.
Separator: *See*—
Oil separator.
Separating and sizing device, Mineral. P. J. Minichello. 2,391,029; Dec. 18.
Sharpening machine, Universal precision. G. Grobet. 2,391,153; Dec. 18.
Shoe. D. J. Calderazzo. 2,391,083; Dec. 18.
Shutter release. D. C. Harvey. 2,391,157; Dec. 18.
Signaling system. J. H. Cook. 2,390,992; Dec. 18.
Sink construction. V. R. O'Brien. 2,391,034; Dec. 18.
Sintering machine. E. W. Shallock. 2,391,199; Dec. 18.
Snap switch. J. H. Horman. 2,391,238; Dec. 18.
Solvent extraction of synthetic latices. A. M. Clifford and C. F. Winans. 2,391,227; Dec. 18.
Spindle shaft with intermediate ball bearing. J. C. Wilson. 2,391,375; Dec. 18.
Spinning frame. L. M. Cotchett. 2,391,135; Dec. 18.
Spool, Film. H. D. Phillips. 2,391,269; Dec. 18.
Spring means. A. B. Berthelmann. 2,391,120; Dec. 18.
Stepladder, trestle, and the like. J. Allan. 2,391,216; Dec. 18.
Stereoscopic aculty testing device. G. J. Koch. 2,391,248; Dec. 18.
Stocking foot. G. Kasket. 2,391,165; Dec. 18.
Structural unit, Internally insulated. C. R. Weiller. 2,391,049; Dec. 18.
Structure. W. T. Van Orman. 2,391,282; Dec. 18.
Structure for crawler tractors, Frame and drawbar. D. B. Baker and W. O. Bechman. 2,391,002; Dec. 18.
Sulpholanes, Stabilization of. R. C. Morris and A. V. Snider. 2,390,331; Dec. 18.
Sulphur dioxide, Production of. A. C. Mohr. 2,391,328; Dec. 18.
Switch: *See*—
Fluid pressure electrical switch. Selector switch.
Snap switch.
Switch operating device. R. S. Edwards. 2,391,231; Dec. 18.
Synchronizing clutch. C. D. Peterson and R. R. Burkhalter. 2,391,268; Dec. 18.
Tablet box. W. F. Punte. 2,391,347; Dec. 18.
Tackle, Fishing. F. E. Kelly. 2,391,167; Dec. 18.
Tailstock for lathes. W. F. Groene. 2,391,154; Dec. 18.
Take-up apparatus. A. C. Frankwich. 2,391,088; Dec. 18.
Tank: *See*—
Portable storage tank.
Tanks, Outlet flange for. C. M. Wickstrum. 2,391,373; Dec. 18.
Teeth, Making artificial. J. A. Saffir. 2,391,106; Dec. 18.
Telegraph code recorder. H. E. Beste. 2,391,082; Dec. 18.
Telescopic structure. F. W. Odin. 2,391,101; Dec. 18.
Tension for narrow ware shuttles. E. R. Holmes. 2,391,314; Dec. 18.
Terpene polymers, Making. H. M. Spurlin. 2,391,359; Dec. 18.
Testing filled sealed cans for leaks. H. M. Slosberg. 2,391,354; Dec. 18.
Thread cutting tool. A. Burrows. 2,391,223; Dec. 18.
Tieback for curtains. R. S. Van Cleeff. 2,391,205; Dec. 18.
Timber connector. C. Mackintosh. 2,391,061; Dec. 18.
Timing apparatus. M. E. Bivens. 2,390,981; Dec. 18.
Timing control system. C. J. Collom. 2,391,009; Dec. 18.
Tool: *See*—
Cut-off tool. Thread cutting tool.
Toolholder. J. H. Drake. 2,391,142; Dec. 18.
Torpedo director. E. A. Sperry, Jr., and J. D. Peace, Jr. 2,391,358; Dec. 18.
Torpedo director. E. A. Sperry, Jr., and C. B. Roede. 2,391,357; Dec. 18.
Tractor stabiliser. M. E. Weigand. 2,391,372; Dec. 18.
Transmission mechanism for turning stitching sewing machines, Loop-taker. A. N. Hale. 2,391,155; Dec. 18.
Transport vehicle. C. C. Stuart. 2,391,363; Dec. 18.
Tray, Ash. J. A. Porter. 2,391,190; Dec. 18.
Tube and protective sleeve assembly. A. L. Parker. 2,391,266; Dec. 18.
Twine holder. C. D. Threlkeld. 2,391,364; Dec. 18.
Typewriting machine. F. P. Kuhl. 2,391,097; Dec. 18.
Unit, Fastener. W. M. Hanneman. 2,391,308; Dec. 18.
Unit for retractable landing gear, Actuating. R. M. Nardone. 2,391,333; Dec. 18.
Utensil, Culinary. W. C. P. Zabel and R. C. Helfenbein. 2,391,215; Dec. 18.
Vaginal obturator. O. Popper. 2,391,343; Dec. 18.
Valve: *See*—
High pressure shutoff valve.
Selector valve.
Valve. S. C. Carter. 2,391,126; Dec. 18.
Vapor phase extraction. C. L. Read. 2,391,104; Dec. 18.
Vehicle: *See*—
Transport vehicle.
Wallboard construction. H. A. Hauptli. 2,391,052; Dec. 18.
Wall, Fluid cooled. J. E. Trainer. 2,391,108; Dec. 18.
Washer and cotter pin lock. J. D. Dilley. 2,391,140; Dec. 18.
Water containing chlorides and sodium dissolved therein, Treatment of. H. D. Meincke, Jr. 2,391,258; Dec. 18.
Weft replenishing loom. W. H. Wakefield. 2,390,370; Dec. 18.
Welding device. J. Brenzinger. 2,391,292; Dec. 18.
Well-logging, Radioactivity. L. G. Howell. 2,391,093; Dec. 18.
Wheel. C. W. Sinclair. 2,391,200; Dec. 18.
Wheel dresser, Grinding. V. W. Bunker, M. De Young, and H. W. Kropf. 2,391,122; Dec. 18.
Window operator. A. Rappl. 2,391,073; Dec. 18.
Wire winding and unwinding reel. J. W. Houston. 2,391,240; Dec. 18.
Wires, particularly fine wires used in the manufacture of electric coils, Joining of. G. Gilliver. 2,390,999; Dec. 18.
Wrench. A. C. Ertner. 2,391,143; Dec. 18.
X-ray casette. F. T. Powers. 2,391,191; Dec. 18.
Yarn tensioning device. E. C. Gwaltney and H. R. Marsh. 2,391,307; Dec. 18.


# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 18, 1945

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2— | 2.1: 2,391,282 | 73— | 52: 2,391,354 | 123— | 119: 2,391,291 | 189— | 26: 2,391,202 | 230— | 20: 2,391,163 | 260— | 163: 2,391,180 |
| | 3: 2,391,335 | | 136: 2,391,024 | | 169: 2,391,220 | | 37: 2,391,250 | | 112: 2,391,306 | | 187: 2,391,179 |
| | 14: 2,391,349 | 74— | 388: 2,391,123 | | 191: 2,391,176 | | 40: 2,391,049 | 234— | 71: 2,391,145 | | 236: 2,391,013 |
| | 2,391,361 | | 581: 2,391,275 | 125— | 11: 2,391,122 | 191— | 12.2: 2,391,141 | 235— | 61: 2,391,243 | | 2,391,014 |
| | 20: 2,391,263 | | 606: 2,391,186 | 126— | 73: 2,391,144 | 192— | .01: 2,391,192 | | 2,391,257 | | 2,391,015 |
| | 93: 2,391,352 | 75— | 67: 2,391,193 | | 99: 2,391,023 | | .02: 2,391,333 | | 75: 2,391,098 | | 283: 2,391,139 |
| | 239: 2,391,064 | 77— | 55: 2,391,183 | | 271.2: 2,391,027 | | 45: 2,391,350 | | 91: 2,391,185 | | 2,391,270 |
| | 253: 2,391,239 | 81— | 152: 2,391,143 | | 285: 2,391,010 | | 53: 2,391,268 | | 122: 2,391,309 | | 329: 2,391,331 |
| 3— | 13: 2,391,305 | 82— | 31: 2,391,154 | 128— | 127: 2,391,343 | | 68: 2,391,124 | | 145: 2,391,089 | | 342.4: 2,391,226 |
| 4— | 187: 2,391,034 | 84— | 803: 2,391,175 | 130— | 30: 2,391,138 | 193— | 35: 2,391,272 | 236— | 80: 2,390,993 | | 342.6: 2,391,261 |
| 5— | 9: 2,391,051 | 85— | 5: 2,391,100 | 131— | 37: 2,391,294 | 196— | 28: 2,391,091 | 240— | 11.4: 2,391,325 | | 380: 2,391,011 |
| 10— | 140: 2,391,223 | | 2,391,298 | | 240: 2,391,190 | | 41: 2,391,149 | 242— | 25: 2,391,088 | | 402.6: 2,391,267 |
| 12— | 17: 2,390,991 | | 7: 2,391,140 | 132— | 32: 2,391,047 | | 44: 2,390,988 | | 54: 2,391,240 | | 425: 2,390,990 |
| 15— | 105: 2,391,070 | | 32: 2,391,031 | | 35: 2,391,284 | | 52: 2,391,334 | | 55.5: 2,391,062 | | 446: 2,391,297 |
| 18— | 16: 2,391,362 | | 2,391,046 | 135— | 6: 2,390,986 | | 2,391,336 | | 68: 2,391,265 | | 451: 2,391,236 |
| | 18: 2,391,300 | 88— | 14: 2,391,076 | 136— | 7: 2,391,001 | | 2,391,366 | | 85: 2,391,321 | | 464: 2,391,251 |
| | 55.1: 2,391,106 | | 2,391,344 | 137— | 139: 2,391,017 | | 2,391,367 | | 131: 2,391,295 | | 541: 2,391,219 |
| 20— | 4: 2,391,052 | | 20: 2,391,248 | 139— | 136: 2,391,314 | 197— | 3: 2,391,097 | | 142: 2,391,364 | | 627: 2,391,128 |
| | 92: 2,391,061 | | 24: 2,391,044 | | 230: 2,391,370 | 196— | 24: 2,391,816 | | 149: 2,391,307 | | 667: 2,391,283 |
| 22— | 200: 2,391,182 | | 2,391,132 | | 273: 2,391,365 | | 45: 2,391,199 | 244— | 134: 2,391,241 | | 668: 2,391,146 |
| 23— | 178: 2,391,328 | | 2,391,274 | 143— | 135: 2,391,286 | | 122: 2,391,053 | | 142: 2,391,362 | | 674: 2,391,104 |
| | 209.8: 2,391,067 | | 54: 2,391,045 | 146— | 2: 2,391,160 | | 202: 2,391,249 | 246— | 170: 2,391,228 | | 680: 2,391,117 |
| | 253: 2,391,006 | | 57: 2,391,114 | 150— | 0.5: 2,391,374 | | 230: 2,391,178 | 248— | 103: 2,391,264 | | 2,391,158 |
| | 258: 2,391,315 | | 2,391,209 | 151— | 19: 2,391,279 | 199— | 62: 2,391,250 | | 119: 2,391,363 | | 2,391,160 |
| 24— | 19: 2,391,235 | | 2,391,210 | | 32: 2,391,232 | 200— | 42: 2,391,110 | 250— | 20: 2,391,130 | | 2,391,188 |
| | 206: 2,391,204 | 89— | 1.6: 2,391,012 | | 2,391,308 | | 51.7: 2,391,324 | | 27: 2,390,981 | | 681.5: 2,391,004 |
| | 221: 2,391,288 | | 41: 2,390,980 | 154— | 1: 2,391,340 | | 54: 2,391,231 | | 2,390,982 | | 2,391,102 |
| 29— | 23.5: 2,390,994 | 91— | 48: 2,391,048 | | 2.23: 2,391,055 | | 83: 2,391,068 | | 2,391,009 | | 683.4: 2,391,148 |
| | 49: 2,390,989 | 93— | 37: 2,391,230 | 158— | 91: 2,391,069 | | 159: 2,391,238 | | 33: 2,391,026 | | 683.5: 2,391,189 |
| | 95: 2,391,133 | 95— | 2: 2,391,198 | | 117.1: 2,390,985 | 202— | 248: 2,391,214 | | 36: 2,391,085 | | 793: 2,391,234 |
| | 97.5: 2,391,142 | | 4.5: 2,391,021 | 159— | 11: 2,391,033 | 204— | 40: 2,391,039 | | 66: 2,391,191 | | 821: 2,390,996 |
| | 155.5: 2,391,223 | | 5: 2,391,025 | 160— | 19: 2,391,150 | | 52: 2,391,289 | | 83.6: 2,391,093 | 261— | 93: 2,391,003 |
| | 155.57: 2,391,229 | | 8: 2,391,181 | | 223: 2,391,201 | | 263: 2,391,206 | | 150: 2,391,273 | 263— | 6: 2,391,339 |
| | 157: 2,391,332 | | 9: 2,391,127 | | 349: 2,391,205 | 206— | 3: 2,391,081 | 251— | 85: 2,391,196 | 266— | 19: 2,391,156 |
| | 256: 2,391,213 | | 2,391,171 | 164— | 88: 2,391,304 | | 18.1: 2,391,371 | | 102: 2,391,278 | | 23: 2,391,006 |
| 30— | 2: 2,391,247 | | 2,391,209 | | 112: 2,391,056 | | 63.2: 2,391,094 | | 103: 2,391,126 | 267— | 34: 2,391,120 |
| 33— | 1: 2,391,075 | | 44: 2,391,152 | 167— | 45: 2,391,209 | | 83: 2,391,112 | 252— | 32.7: 2,391,099 | 268— | 125: 2,391,073 |
| | 46: 2,391,356 | | 53: 2,391,157 | 170—135.6: | 2,391,223 | | 42: 2,391,347 | | 2,391,184 | 271— | 62: 2,391,125 |
| | 174: 2,391,080 | 96— | 1.5: 2,391,197 | 171— | 95: 2,391,168 | | 45: 2,391,285 | | 36: 2,391,113 | | 76: 2,391,170 |
| 34— | 17: 2,391,195 | 99— | 157: 2,391,336 | | 95: 2,391,271 | | 56: 2,391,301 | | 37.2: 2,391,311 | 273— | 33: 2,390,998 |
| 36— | 10: 2,391,165 | | 365: 2,391,208 | | 119: 2,391,256 | 209— | 392: 2,390,983 | | 161: 2,391,087 | | 131: 2,391,147 |
| | 11: 2,391,023 | 100— | 71: 2,391,187 | | 125: 2,391,313 | | 454: 2,391,029 | | 227: 2,391,312 | 280— | 33.1: 2,391,372 |
| | 22: 2,391,217 | 102— | 56: 2,391,303 | | 252: 2,391,115 | 210— | 23: 2,391,258 | | 242: 2,391,327 | | 33.44: 2,391,018 |
| | 30: 2,391,083 | | 90: 2,391,342 | 172— | 36: 2,391,005 | | 28: 2,391,060 | | 250.2: 2,391,050 | 281— | 5: 2,391,136 |
| 40— | 57: 2,391,355 | 103— | 2: 2,391,174 | | 2,391,103 | | 63: 2,391,107 | | 250.3: 2,391,356 | 282— | 9: 2,391,054 |
| 42— | 69: 2,391,237 | | 6: 2,391,221 | | 276: 2,391,320 | | 154: 2,391,318 | | 300: 2,391,116 | 284— | 19: 2,391,022 |
| 43— | 28: 2,391,167 | | 72: 2,391,105 | 174— | 102: 2,391,036 | | 161: 2,391,215 | | 313: 2,391,253 | 285— | 21: 2,391,063 |
| 44— | 53: 2,391,084 | | 126: 2,391,072 | | 2,391,037 | 214— | 65: 2,391,310 | | 2,391,254 | | 38: 2,391,373 |
| 45— | 68.1: 2,390,987 | | 234: 2,391,211 | 175— | 21: 2,391,038 | | 140: 2,391,224 | | 2,391,255 | | 86: 2,391,266 |
| 46— | 164: 2,391,131 | 104— | 165: 2,391,173 | | 341: 2,391,277 | 217— | 15: 2,391,032 | | 360: 2,391,019 | 286— | 1: 2,391,159 |
| 51— | 59: 2,391,260 | 106— | 30: 2,391,376 | | 366: 2,391,194 | 219— | 3: 2,391,252 | 254— | 185: 2,391,172 | | 6: 2,391,121 |
| | 92: 2,391,153 | | 252: 2,391,041 | 177— | 314: 2,390,992 | | 4: 2,390,999 | 257— | 236: 2,391,244 | | 7: 2,391,007 |
| | 101: 2,391,317 | | 2,391,042 | | 351: 2,391,057 | | 6: 2,391,292 | 259— | 4: 2,391,110 | 287—52.03: | 2,391,302 |
| | 135: 2,391,322 | | 258: 2,391,118 | | 2,391,058 | | 8: 2,390,997 | | 54: 2,391,066 | | 58: 2,391,101 |
| | 166: 2,391,375 | | 297: 2,391,166 | | 353: 2,391,246 | | 26: 2,391,065 | 260— | 7: 2,391,368 | 292— | 210: 2,390,984 |
| 56— | 355: 2,391,348 | 109— | 85: 2,391,353 | | 2,391,309 | | 38: 2,391,071 | | 32: 2,391,092 | 299— | 83: 2,391,177 |
| 57— | 56: 2,391,135 | 110— | 1: 2,390,995 | | 385: 2,391,079 | | 2,391,207 | | 36.2: 2,391,281 | 300— | 21: 2,391,077 |
| 60— | 25: 2,391,342 | 112— | 66: 2,391,155 | 178— | 7.5: 2,391,080 | | 39: 2,391,111 | | 2,391,330 | 301— | 63: 2,391,200 |
| | 45: 2,391,078 | 113— | 80: 2,391,341 | | 88: 2,391,082 | | 47: 2,391,086 | | 79: 2,391,095 | 308— | 201: 2,391,245 |
| | 52: 2,391,035 | 114— | 0.5: 2,391,059 | 179—27.53: | 2,391,276 | 220— | 60: 2,391,346 | | 80: 2,391,293 | 309— | 45: 2,391,124 |
| 62— | 1: 2,391,043 | | 66.5: 2,391,326 | 180— | 9.1: 2,391,002 | 222— | 517: 2,391,345 | | 2,391,359 | 315— | 6: 2,391,016 |
| | 127: 2,391,030 | | 181: 2,391,290 | 183— | 67: 2,391,208 | 226— | 66: 2,391,040 | | 84: 2,391,162 | | 205: 2,391,225 |
| | 129: 2,391,151 | 115— | 49: 2,391,109 | 184— | 104: 2,391,000 | | 82.4: 2,391,319 | | 2,391,227 | | |
| 66— | 9: 2,391,006 | 116— | 135: 2,391,080 | 186— | 1: 2,391,287 | 228— | 29: 2,391,216 | | 86.5: 2,391,233 | | |
| 73— | 15: 2,391,161 | 117— | 33.2: 2,391,280 | 188— | 75: 2,391,074 | 229— | 5.6: 2,391,337 | | 94: 2,391,218 | | |
| | 40: 2,391,351 | 121— | 55: 2,391,360 | | 152: 2,391,129 | | 5.7: 2,391,212 | | 152: 2,391,137 | | |
| | | 122— | 6: 2,391,108 | | 222: 2,391,329 | | 43: 2,391,296 | | 153: 2,391,164 | | |

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,391,009: | 184—104 | 2,391,055: | 154—2.23 | 2,391,099: | 252—32.7 | 2,391,254: | 252—313 | 2,391,312: | 252—227 | 2,391,329: | 263— 6 |
| 2,391,008: | 206— 23 | 2,391,070: | 15—105 | 2,391,225: | 315—205 | 2,391,275: | 74—581 | 2,391,334: | 200—81.7 | 2,391,348: | 56—355 |
| 2,391,011: | 260—380 | 2,391,081: | 206— 3 | 2,391,253: | 252—313 | 2,391,280: | 117—33.2 | 2,391,337: | 229—5.6 | 2,391,376: | 106— 39 |

## Classification of Designs

D 1—12: Des. 143,180
Des. 143,237
Des. 143,242
D 3— 4: Des. 143,184
Des. 143,185
Des. 143,186
Des. 143,194
Des. 143,195
Des. 143,196
Des. 143,197
Des. 143,198
Des. 143,199
Des. 143,200
D 3— 4: Des. 143,201
Des. 143,209
Des. 143,210
D 4— 4: Des. 143,204
D14— 2: Des. 143,256
D22— 2: Des. 143,233
Des. 143,241
3: Des. 143,238
D26— 5: Des. 143,182
Des. 143,183
D29—20: Des. 143,187
Des. 143,188
Des. 143,189
D29—20: Des. 143,190
28: Des. 143,231
D34— 5: Des. 143,236
13: Des. 143,240
D36— 8: Des. 143,206
D44—29: Des. 143,247
Des. 143,249
Des. 143,260
D45— 9: Des. 143,235
19: Des. 143,211
Des. 143,212
Des. 143,213
Des. 143,214
D45—19: Des. 143,215
Des. 143,216
Des. 143,217
Des. 143,218
Des. 143,219
Des. 143,220
Des. 143,221
Des. 143,222
Des. 143,223
Des. 143,224
Des. 143,225
Des. 143,234
D48—20: Des. 143,232
D50— 8: Des. 143,245
Des. 143,246
D54—13: Des. 143,239
D55— 1: Des. 143,207
D58—26: Des. 143,238
D60— 9: Des. 143,202
Des. 143,203
11: Des. 143,192
Des. 143,193
D85— 2: Des. 143,205
Des. 143,229
Des. 143,230
D86—10: Des. 143,181
D86—10: Des. 143,208
Des. 143,251
Des. 143,252
Des. 143,253
Des. 143,254
Des. 143,255
D87— 3: Des. 143,191
Des. 143,226
Des. 143,227
5: Des. 143,179
D92— 1: Des. 143,243
Des. 143,244
D93— 4: Des. 143,248

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

### In re Lippold

*No. 5,019. Decided July 5, 1945*

[150 F.(2d) 714; 66 USPQ 311]

1. Rule 75—Affidavits.

Jurisdiction to pass upon the sufficiency of affidavits submitted under rule 75 assumed; and *Held:* "It would seem to be a dangerous procedure to permit witnesses, even though one of these be disinterested to state purely from memory that a machine operated in a certain way and was constructed in accordance with the specifications of a certain application or patent and thereby overcome the effect of a reference."

2. Patentability—Article Handling Apparatus.

Certain claims to article handling apparatus *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

*Mr. Norman E. H. Deletzke* for Lippold.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Bland, *J.:*

Having allowed claims 13 and 14 (all the claims in the case except those involved in this appeal), the Primary Examiner of the United States Patent Office rejected claims 12, 15, 16, 17, and 18 of appellant's application for a patent in view of the prior art cited, and his decision was affirmed by the Board of Appeals. From the decision of the latter, appellant here petitions for its review.

Claim 12, in view of explanations hereinafter made as to the nature of the other claims, is regarded as sufficiently illustrative and follows:

12. Article handling apparatus comprising the combination with a suitable support and a turntable rotatable thereon, of a pair of star wheels located symmetrically with reference to a radius of said turntable for the loading and unloading of work, said star wheels having work-receiving pockets opening toward the direction of star wheel rotation, and driving shafts for said star wheels upon which said star wheels are invertably mounted to be operative for loading or unloading according to the direction of rotation of the shafts.

The references relied upon are: Malmquist, 1,643,990, October 4, 1927; Meyer, 1,870,373, August 9, 1932; Fagan et al., 1,966,889, July 17, 1934; Gladfelter, 2,013,144, September 3, 1935; Regan, 2,081,208, May 25, 1937.

The involved application, which is a division of another application which has ripened into a patent, discloses a complicated bottle filling and capping mechanism. For the most part the machine consists of a great number of elements which are old in the art, and the alleged invention of the appealed claims is concerned only with the particular apparatus by which the bottles are transferred to and from the filling and capping device. By a conveyor, the bottles are delivered to a star wheel, which feeds the bottles to the large filling turret. After passing almost completely around this large turret, the bottles are intercepted by another star wheel, which transfers them to a capping mechanism, whence they are removed by a third star wheel and returned to the conveyor. The filling turret, capping device, and the three star wheels are all driven by a single chain which passes over an adjustable idler sprocket, the action of which sprocket tensions the chain. The elements above referred to are so arranged that the direction of rotation may be reversed. In reversing the same, the start wheels are reversed to provide for feeding in a new direction. That is to say, the machine, by such reversal is transformed from a left-handed machine to a right-handed machine. It is fed with the bottles, and the bottles are removed from the left side of the machine, or, after the adjustments are made, this action may take place on the right-hand side of the machine. All of this action takes place by the use of a single drive chain, and it is claimed by appellant that this particular arrangement results in a proper "timing and synchronized operation and relative motion of each of the five transfer elements" irrespective of the wear and tear on the driving and driven parts. Appellant alleges that this is an improvement over the art, since in the conventional type of bottle filling and capping machines, consisting of a train of gears and pinions, the normal wear and tear destroys the critical time relation of the parts.

Claims 12 and 17, which are directed to the invertibility of the star wheel adjacent the turntable, whereby it can be loaded and unloaded depending upon the rotation of the star wheel, were rejected by the Examiner upon the patent to Gladfelter. The Gladfelter device much resembles the one of the present application and is designed for right-hand or left-hand operation. Gladfelter's specification states:

The problem then of converting the machine from a left-hand feed resides in moving the bottle infeed timing mechanism shown at one end of the machine of Figure 1 to the other end thereof, and in correspondingly transposing the infeed and outfeed guards, valve, and safety devices.

* * * * * * *

All of the parts adjacent the discharge end of the machine shown in Figure 1 are similarly formed, so that they may be inverted and used at the other end of the machine of that figure, if the feed is to be reversed in direction. Similarly, the infeed and outfeed spiders may be turned over, so that the pockets formed therein will cooperate with bottles moving in either direction.

It should be noted that all of the parts which are affected by the direction of movement of bottles through the machine are double based, so that they may be assembled in two operative positions, depending upon the direction of feed of the machine.

After pointing out these statements in the Gladfelter patent, the Examiner stated:

With reference to the drawings it is noted that patent drawings are not necessarily drawn to scale. In addition in inverting the star wheels in Gladfelter as shown on the drawings the three bolt holes will line up and it is only necessary to rotate the shaft slightly. Finally it is noted that the limitation "invertibly mounted" fails to define any structure to patentably distinguish from Gladfelter.

There was some dispute at oral argument about the Examiner's statement with reference to the lining up of the bolt holes, but in view of our con-

clusion and that of the Board, we do not regard this as a matter of importance.

On this phase of the case, the Board said:

> • • • He [appellant] urges also that this could not be easily corrected by simply changing the position on the supporting spindle in view of the timing of the apparatus associated therewith. We believe that such reasoning is not warranted inasmuch as the showing in Figure 1 of Gladfelter of the supporting bolts is not necessarily accurate and, in fact, is not important. The draftsman was only concerned to position three supporting bolts on the spider and even if they were improperly placed there is no reason to assume that Gladfelter, who is concerned directly with the same problem as appellant, would follow minutely the exact arrangement of bolt holes in Figure 1. But independently, appellant argues that Gladfelter intended not only to invert the star wheels 22 and 27 when converting the Gladfelter type of bottle handling machine from right hand to left hand operation, but also intended to interchange the star wheels. Whatever the intention of the patentee we do not find that appellant has a patentable distinction in claims 12 and 17 over Gladfelter.

We are in agreement with the holding of the Board as to claims 12 and 17 and concur with it in the view that in the light of suggestions in Gladfelter and the structure shown in that patent, the appealed claims, with respect to the matter now under discussion, do not define patentable distinction over the Gladfelter patent.

Claim 16 was rejected on the patent to Fagan et al. There is no dispute about what that patent shows and if the patent is a proper reference we have no doubt that claim 16 defines nothing inventive over it. This is not seriously controverted by appellant. The particular limitations of this claim over claim 12 are not material in view of what is to follow hereinafter.

The real contention with respect to the rejection of claim 16 on the Fagan et al. patent is that during the prosecution of the case appellant filed, at different times, certain affidavits, under rule 75 of the Rules of Practice in the United States Patent Office, in an attempt to overcome the Fagan et al. patent as a reference. It would unduly lengthen this opinion to state fully the subject matter of the affidavits or all the facts concerning them. The first affidavit of appellant, however, was rejected upon the ground that it was insufficient to overcome the reference since "it failed to set forth the facts." Appellant then filed a second affidavit to the effect that he made and tested a device conforming to the application and the drawings thereof on or before the filing date of the Fagan et al. patent. This affidavit was also rejected. After taking an appeal to the Board, appellant filed a third affidavit by one Fielder, an allegedly disinterested witness, and the case was remanded to the Examiner. The Examiner did not change his conclusion, however, and the rejection of claim 16 on the Fagan et al. patent was permitted to stand.

Before the Board appellant contended, as he does here, that the affidavits were sufficient to overcome the reference. The action of the Examiner with reference to the said affidavits was approved by the Board with the statement:

> • • • This affidavit is to the effect that one H. S. Fielder witnessed a successful operation and demonstration of an experimental full-sized bottle filler and capper constructed in accordance with the drawings of the present application and enumerates various elements of the machine. In accordance with the doctrine in *Ex parte Donovan*, discussed in the record, it is for this Office to observe the physical exhibits to show prior completion of an invention, and therefore, we do not consider the affidavit satisfactory.
>
> Appellant urges that *Ex parte Donovan* is a very old decision and he has complied with rule 75 which has not been changed in accordance with *Ex parte Donovan*. However that may be, the Donovan practice still is used in this Office.

Appellant here takes the position that rule 75 does not require a more detailed showing as to appellant's earlier construction than that stated in said affidavits, and that:

> • • • appellant was never requested by the Examiner or the Board of Appeals to submit either the original model or working drawings of his invention or duplications thereof. Had the Examiner desired to see such original model or working drawings, it may have been impossible for the appellant to submit the same; however, they were not requested by the Examiner, as the record clearly shows.

It is the position of the Solicitor for the Patent Office, supporting the decision below on this phase of the case, that it is not the province of the Examiner to request a certain state of facts to be stated, but that he is to judge the facts as they are presented, and that to submit affidavits as to the conclusions of witnesses as to what they saw many years prior, instead of showing models, drawings, or other facts from which the Patent Office can determine for itself whether or not the structure was in accordance with the disclosure of the patent application, is hot a proper compliance with rule 75.

[1] This is a procedural matter in the Patent Office. Assuming, without holding, that we have jurisdiction to pass upon the matter, and even if appellant in his reasons of appeal had specifically assigned error on the failure of the Board to request or cause to be requested drawings and specifications, we are not convinced that the position taken by the Patent Office with respect to said affidavits was erroneous. It would seem to be a dangerous procedure to permit witnesses, even though one of these be disinterested to state purely from memory that a machine operated in a certain way and was constructed in accordance with the specifications of a certain application or patent and thereby overcome the effect of a reference. It would open the door to a very loose and dangerous practice. Just how far the tribunals of the Patent Office may go in requiring drawings, sketches, or more detailed descriptions of such operation or construction in order to comply with the rule, we are not here called upon to decide.

We think the rejection of claim 16 on the Fagan et al. patent was proper under the circumstances.

The remaining claims, Nos. 15 and 18, are directed specifically to the use of a single chain to drive the various work-handling apparatuses, whereas the prior art, for the most part, shows intermeshed gears to operate these various old elements. In rejecting these claims, the Examiner said:

> Claims 15 and 18 are directed to the drawing of the various rotating mechanisms by a single tensioned chain. In Fagan the mechanisms are driven by intermeshing gears. With reference to claim 18 to substitute a single chain and sprocket drive for the intermeshing gears is not deemed patentable. As an example of a number of shafts driven by a single chain see Figure 4 of Regan. Providing the chain with an idler sprocket to be used as a chain tensioner is a common expedient in chain drives. In substituting a chain drive in Fagan, the recited manner of training the chain as in claim 15 is obvious if the same directions of rotation are to be maintained and to locate the idler sprocket as recited is obvious to maintain the symmetry for purposes of conversion and also to take up the slack between star wheels 71 and 73 since the chain must pass on the inside of each of these star wheels.
>
> Malmquist and the two patents to Meyer [only one was cited] all show a plurality of co-acting work handling apparatus as recited in claim 18, that is a filling turret and a capping turret. To drive the stations and star wheels by sprockets and a chain is not deemed patentable especially in view of Regan above cited and applied. To provide the chain with an adjustable idler sprocket to take up the slack is a common expedient in chain drives.

Appellant urges that Regan "did not contemplate the timed operation of reversible elements as was contemplated by the appellant" and that the use of a train of gears and pinions, such as shown in Fagan et al., would not perform the function of his assembly, which involves sprocket wheels and a sprocket chain. It is true that, while Fagan et al. disclose the use of a train of gears and pinions, their structure was not operable in a reverse direction. As to these claims, the Board said:

> Claims 15 and 18 are directed specifically to the use of a single tension chain to drive the various work handling apparatus whereas the prior art for the most part shows intermeshing gears to operate these various old elements. The use of a single chain drive is shown, (see element 50), in a machine by Regan. We believe the Examiner is warranted in his rejection. The substitution of a chain drive for a gear drive does not call for invention in our opinion.

It is our opinion and we so hold that, in view of the prior art suggestions of using a single chain drive, invention did not rest in providing for it in appellants device as is mentioned in the claims under discussion.

[2] The decision of the Board, in all respects, is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

### IN RE MERKLE

*No. 5,037. Decided July 3, 1945*

[150 F.(2d) 445; 66 USPQ 165]

1. PATENTABILITY—REFERENCES.

   *Held* that in his container appellant has solved a problem which was not solved, nor attempted to be solved in the references; that "there is nothing in the references to suggest doing what appellant has done to solve the problem which appellant has solved;" and that appellant has not only embraced in his structure some of the features of the references, but he has done it in such a way and made such modifications of old devices as to produce a new and useful result."

2. SAME—SAME.

   "The Solicitor for the Patent Office has not suggested that the features of the references relied upon by the Examiner are the same as those that have been combined into appellant's structure. He states that the question 'to be determined is whether it was invention to make the substitution with such physical changes as would be a normal way of making the substitute.' This, of course, is the proper way to approach the question. Does the prior art suggest doing what appellant has done? Does it suggest the modification? Is there anything in the prior art that would suggest to anyone skilled in the container art how he could modify the references and consolidate them and produce his article so as to solve the problem upon which he was working?"

3. SAME—CONTAINER.

   Certain claims to an improved container of fibrous material adapted for packaging milk *Held* patentable over the prior art; citing *Diamond Rubber Co. v. Consolidated Rubber Tire Co.*, 220 U. S. 428, 166 O. G. 251, and finding that appellant's case is one of the cases where "after one sees the improvement it is a 'matter of wonder' how it so long 'eluded the search of the discoverer.'"

APPEAL from the Patent Office. Reversed.

*Mr. John O. Seifert* (*Mr. John J. Darby* of counsel) for Merkle.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

From a decision of the Board of Appeals of the United States Patent Office affirming the action of the Examiner in rejecting claims 11, 12, and 13 of appellant's application for a patent for a fibrous paper container, such as is adapted for packaging milk, appellant has here appealed.

Claim 12 is illustrative of the appealed subject matter and follows:

> 12. A container of fibrous material, comprising a body having the marginal end portions folded inwardly and free of the inner side of the body, and closures of dish form for the ends of the body having the rim flanged laterally in the direction of and to an extent greater than the depth of the dish portion and folded outwardly and reversely upon itself substantially to U-shape in cross section, and said closures inserted into the ends of the body with the laterally extending portion of the flange engaging and adhesively united to the folded end portions of the body and the outwardly folded portion of the flange engaging and adhesively united to the outer side of the body providing a flexible connection between the body and closures of the container, and the dish portion of the closure disposed within the ends of the body.

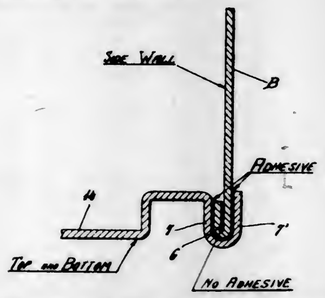
The claims were rejected upon the patents to: Bogert, 1,293,316, February 4, 1919; Sherwood et al., 2,146,861, February 14, 1939; Carew, 2,274,037, February 24, 1942.

Under modern commercial practices milk is transported sometimes long distances in sealed paper containers, and by reason of the constant vibration in transportation and the piling up of the containers and the weight of the contents, the surging of the liquid in the containers frequently cause leaks at top or bottom. This is particularly true with milk which is hauled at all seasons of the year and is packaged in containers which are not completely filled so as to allow room for expansion by freezing, etc.

The applicant, evidently an expert in this art, recognized the difficulty and considered means of overcoming the problem presented. The record shows that his problem was one of making a close and strong adherence of the ends of the containers to the body thereof, and at the same time by such joining of the two elements and of the shaping of the bottom and top so as to permit a reasonable expansion without unnecessarily weakening the structure.

The applicant accomplished these purposes by an improvement, which is shown by a reproduced and enlarged scale drawing of one end portion of his container, upon which has been noted the indicia not shown in the small scale application drawing, which is so indistinct as to be not readily under-

stood. We here reproduce the enlarged scale drawing submitted by appellant.




Appellant, in his brief, explains the drawing in the following language:

> The claimed invention relates to containers made of fibrous material, such as paper, and adapted for the packaging and distributing of liquids therein, comprising a body B, shown as of rectangular form in cross section, having the marginal portions at the ends folded inwardly and said folded portions being free of the inner side or surface of the body, as at 6 in Figures 1 and 3 of the drawing (R. 9) and opposite page 2, and closures for the ends of the body, said closures being of dish form, in that the center portion of each closure is depressed, as at 14, and the rim or marginal portion of the closure is flanged laterally in the direction of the depressed portion, as at 7, and the flange 7 reversely folded upon itself, as at 7', to substantially U-shape in cross section.
>
> A closure is inserted into one end of the container body with its laterally extending and reversely folded flange 7, 7' engaged over the inwardly folded end portion 6 with the laterally extending portion 7 of the flange contiguous to the outer surface of the folded end portion 6 of the container body and the reversely folded portion 7' contiguous to the outer surface of the container body.
>
> The closure flange 7, 7' is secured or adhesively united to the outer surfaces of the folded end portion 6 and the container body B, as by a thermoplastic adhesive on the inner surface of the closure flange 7, 7'. Adhesion is obtained by applying heat and pressure to the flange 7, 7', as shown at 10, 11, 11' in Figure 1 and opposite page 2, thus providing a flexible connection between the container body and the end closure. After the container is filled with the contents to be dispensed therein, a similar closure is engaged in the opposite end of the container body with the flange 7, 7' engaging over the folded end of the container body and adhesively secured to the outer surface of the inwardly folded end portion and outer side of the container body under heat and pressure.

We quote the following from the Examiner's decision, which states clearly his grounds of rejection:

> The Examiner holds that claims 11, 12 and 13 are unpatentable over Sherwood et al. in view of either Carew or Bogert. There would be no invention in folding over the ends of the container of Sherwood et al. as taught by either Carew or Bogert.
>
> The Examiner also holds that claims 11, 12 and 13 are unpatentable over Bogert in view of Sherwood et al. There would be no invention in applying adhesive to the end of the container of Bogert as taught at 19, Fig. 3, of Sherwood et al. and in the use of a container having at both ends a similar end structure.
>
> Claim 11 does not include the use of an adhesive. Insofar as the end structure as covered by this claim, it is held to be fully met in either Carew or Bogert. The recital of opposite ends is merely a duplication of the structure of either of these patents.

The Board briefly affirmed the holding of the Examiner and, in part, said:

> The Examiner holds the appealed claims unpatentable over Sherwood, which shows the general pattern of joint, in view of Carew or Bogert, which show the idea of strengthening the end of the tubular container by folding it over on itself. The use of adhesive at and inside the joint is a conventional expedient, as shown by Sherwood. It is mere duplication to construct both ends of a cylindrical container in the same way.
>
> Applicant has fully summarized the disclosures of the references and has pointed out what they do not show. We are not satisfied that applicant's claims define an invention over the state of the art cited, and cannot see that the Examiner's position is in error.

The Sherwood patent is for a container suitable for packaging oils, greases, etc., from which the top lid may be readily moved. The invention comprehends the use of a plurality of plies of parchment or other thin lining material, and, as pointed ont by the Examiner, has a centrally depressed portion such as that of appellant. The edge of the lid closure is formed with a flange folded outwardly and reversely to U-shape in cross section and has a thermoplastic coating on the inner surface of such U-shaped portion. In respect to the end closure having the central depression and the same being folded outwardly to extend on the outside of the body portion of the container, it resembles the structure of appellant, but it will be noted that the appealed claims call for a structure in which the body portion B at the ends is bent inwardly. The end of Sherwood's body portion is incapable of bending inwardly since it is constructed in rigid form of plies of material. The ends of the container body are coated with rubber latex coating to prevent oil permeating. This inward bending feature of the body, and the coating with latex, is important in view of matters later herein referred to.

Bogert bends the ends of his wall portion inwardly and fits the lid over such bent portion.

Carew also folds the end of his container inwardly, but it is so designed in connection with the structure of the lid of same that the inner portion acts as a spring stated to form a good seal, and it is obvious that such an arrangement will facilitate the removal of the cap or top when the contents of the container are desired. Carew also shows the use of a so-called flange formed by separating a portion of the side wall and permitting the outer portion of the cap to protrude downwardly into the said flange.

As to the first ground of rejection assigned by the Examiner as to all the claims that there would be no invention in folding the ends of the container of Sherwood, as taught by either Carew or Bogert, it has already been observed that there is nothing about the Sherwood structure or the structure of either of the other patents that suggests that the top and bottom of the body of the Sherwood container could be folded in. In fact, it could not be so folded.

[1] It will also be noticed that in appellant's device there is not only a depressed bottom and top, but that there is a reversed folded portion 7 so provided to give additional expansion room and to form a portion of the wall around the inwardly bent ends of the walls. It is easy to see, from a study of appellant's specification, that in his structure he has solved a problem which was not solved, nor attempted to be solved in either one of the references.

Clearly, appellant's device is a great improvement in the container art, and we think there is nothing in the references to suggest doing what appellant has done to solve the problem which appellant has solved.

This is not merely a case of combining the good qualities of three patents into one and obtaining the benefit of whatever good qualities were disclosed therein, but as we view it appellant has not only embraced in his structure some of the features of the references, but he has done it in such a way and made such modifications of old devices as to produce a new and useful result. None of the references mentioned herein attempted to bring about the resiliency and at the same time retain the strength in the container which appellant here has disclosed and emphasized.

It will be noticed by examining the enlarged drawing reproduced herein that there is no adhesive between the inturned portions of the body, that the adhesive is on the outside of the wall portion and on the inside of the closure portion, and that resiliency is afforded by this construction.

Bogert's structure shows no such intended resiliency, since his inwardly bent portion of the body is secured to the body to form the binding edge, and no resiliency except what might be desired for opening the container was sought.

The second ground of rejection on the part of the Examiner, as before stated, is that there would be no invention in applying adhesive to the end of the container of Bogert as is taught by Sherwood.

We think our discussion above as to the nature of the structure makes it sufficiently clear that we are not in agreement with the Examiner's viewpoint in this last stated ground of rejection.

It is pointed out by the Examiner that claim 11 does not include an adhesive securing the folded end of the container body to the end portion. The claim requires that it be "secured to the inwardly folded end." In other words, claim 11 is broader than claims 12 and 13 insofar as the last two require that the inwardly bent end portion should be adhesively connected to the closure.

The adhesive feature of the two claims is not the element which lends patentability to them. Since we think claims 12 and 13 are allowable, we also conclude that claim 11 is allowable and will afford more adequate patent protection, since the adhesive feature might in some way be avoided by securing the end in some other manner.

[2] The Solicitor for the Patent Office has not suggested that the features of the references relied upon by the Examiner are the same as those that have been combined into appellant's structure. He states that the question "to be determined is whether it was invention to make the substitution with such physical changes as would be a normal way of making the substitute." This, of course, is the proper way to approach the question. Does the prior art suggest doing what appellant has done? Does it suggest the modification? Is there anything in the prior art that would suggest to anyone skilled in the container art how he could modify the references and consolidate them and produce his article so as to solve the problem upon which he was working?

[3] This is one of the cases where, as was stated in *Diamond Rubber Co.* v. *Consolidated Rubber Tire Co.*, 220 U. S. 428, 166 O. G. 251, after one sees the improvement it is a "matter of wonder" how it so long "eluded the search of the discoverer."

A case in point with the law involved in the instant appeal, we think, is *In re Edwards*, 29 C. C. P. A. (Patents) 771, 124 F.(2d) 203, 52 USPQ 91, 539 O. G. 243. Also see *In re Quartz*, 24 C. C. P. A. (Patents) 1180, 90 F.(2d) 255, 33 USPQ 504, 485 O. G. 3.

It follows from the foregoing that the decision of the Board of Appeals affirming that of the Examiner in rejecting claims 11, 12, and 13 of appellant's application should be and is reversed.

Reversed.



## U. S. Court of Customs and Patent Appeals

LYNES
*v.*
LEHNHARD

*No. 5,045. Decided June 25, 1945*

[150 F.(2d) 426; 66 USPQ 253]

1. INTERFERENCE—RIGHT TO MAKE COUNTS.

"The Board correctly stated that under the state of facts here appearing it was not essential that Lehnhard should have had claims in his application as filed covering the subject matter, or that in order to make the counts such application should have contained a drawing depicting the device. It was sufficient if the specification disclosed it, and we agree with the Board that it did so, and that Lehnhard, therefore, has the right to make the counts."

2. SAME—PRIORITY.

Evidence reviewed and *Held* that Lynes, the junior party, failed to establish conception of the invention defined in the counts prior to the filing date of Lehnhard, the senior party, and that priority properly was awarded to Lehnhard.

APPEAL from the Patent Office. Affirmed.

*Mr. Lester B. Clark* for Lynes.

*Mr. Allen R. Whittington* (*Mr. George A. Degnan* of counsel) for Lehnhard.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Interference Examiners of the United States Patent Office awarding Lehnhard priority upon the four counts (numbered 1, 2, 3, and 4) involved in an interference proceeding. The subject matter of the invention is described in the decision of the Board as follows:

> The subject matter of this interference relates to a treating tool for wells whereby a specified increment of a well bore may be treated with liquid under pressure. The tool includes a body and a pair of spaced expansible packers mounted thereon. A discharge section is located between the packers and an operating pipe is provided to manipulate the tool and to supply liquid under pressure to the discharge section. Valves are so arranged that the pressure liquid will first inflate the packers and thereafter discharge from the tool. In order to deflate the packers a valve, operable by the pipe, may divert the liquid into the well bore above the packers. In the Lynes construction this last-mentioned valve functions by longitudinal movement of the pipe, whereas in the Lehnhard device it operates by rotary movement of the pipe.

Counts 2 and 3 read as follows:

2. A treating tool for wells including a body, a pair of spaced packers thereon, a discharge section between said packers, an operating pipe to manipulate said tool and to supply liquid under pressure to be discharged into the well from said section, means operable so that the pressure liquid will first inflate said packers and thereafter discharge from the tool, and additional means operable by said pipe while said packers are set to divert the liquid into the bore above the tool.

3. A tool to apply liquid under pressure to an increment of a well bore including a body, a pair of spaced packers thereon, an operating pipe through which liquid under pressure is supplied to said tool, means to first direct the liquid to inflate said packers and to thereafter effect discharge of the liquid between the packers into the well bore.

As stated by the Board:

Count 1 differs from count 2 in omitting the last means of count 2. Count 4 is identical with count 3, but includes as an additional means the last element specified in count 2, in somewhat different language.

The counts originated in a Patent No. 2,227,730 for "Inflated Packer Treating Tool for Wells" issued to Lynes January 7, 1941, upon an application filed October 13, 1939. The patent includes a number of claims not involved in the interference. Those involved were copied on April 28, 1941, by Lehnhard into his application for patent for "Well Packer," Serial No. 285,759, filed July 21, 1939. So, upon the record, Lehnhard is the senior party, and the burden rested upon Lynes to establish priority by a preponderance of the evidence.

Lehnhard took no testimony and is restricted to the filing date of his application (July 21, 1939) for all elements essential to the establishment of priority.

In his preliminary statement Lynes made no claim of reduction to practice other than the constructive reduction resulting from the filing of his application but, upon the matter of conception, claimed first drawings and disclosure to others on August 15, 1937 (also alleging "the beginning of the actual exercise of reasonable diligence" on that date) and took testimony in the effort to substantiate such claims.

However, prior to the taking of any testimony, the party Lynes, within the motion period, moved to dissolve the interference, alleging (so far as here pertinent):

(1) That the party Lehnhard has no right to make any of the claims constituting the counts in the issue of this interference because the apparatus disclosed in the Lehnhard application, as filed, did not include as an element thereof a means to inflate and thereafter effect discharge of fluid from the tool.

(2) That the party Lehnhard has no right to make any of the claims constituting the counts in issue in this interference because the claims are directed to new matter injected into the application subsequent to the filing thereof.

In his decision upon the motion the Examiner described the invention in a general way, quoted claim 1, and stated:

The briefs for the parties Lynes and Lehnhard have been carefully considered and the Examiner is in agreement with the facts set forth in the brief of the party Lehnhard. The motion to dissolve is accordingly denied.

The brief of Lehnhard so referred to is not embraced in the record certified to us. Therefore, we have no information respecting the reasons for the Examiner's view, except as they may be reflected in the decision of the Board before which the issue was carried in conformity with Patent Office rule 130. It is brought before us in the reasons of appeal.

Before us the party Lynes has alleged errors on the part of the Board set forth in thirty-one separate reasons of appeal which are discussed in detail in his brief. However, only two fundamental issues are presented.

The first is the right of the party Lehnhard to make the counts. This embraces the question of whether they are supported by his application as originally filed.

The second is whether the party Lynes established conception prior to Lehnhard's filing date of July 21, 1939.

It is conceded that, in his application as originally filed, Lehnhard had no claims which covered the particular subject matter of the counts, and that it did not include a drawing showing structure conforming thereto, but the specification as filed contained the following statement:

If desired, two or more hydraulic packers may be used in combination wherein it is desired to seal the well bore both above and below the point of introduction of the fluid agent. In such cases, the back pressure valve assembly or other similar means controlling the expansion of the packing elements is positioned between the packers in such a manner as to allow fluid entry from the tubing into the well bore at any desired point between the packers.

It will be borne in mind that the claims which became the counts were copied into the Lehnhard application April 28, 1941, which was less than four months after the issuance of the patent to Lynes, the above quoted statement from the specification together with other recitals being relied upon for disclosure. The Primary Examiner held the claims allowable, and in an office letter under date of June 14, 1941, stated:

It is required that an additional figure be added to the drawings, showing the modification described on page 7 [the above statement], lines 19 to 26, and including the two packers and a back pressure valve assembly positioned between the packers, all as described on page 7.

The drawing so required appears to have been presented on June 27, 1941, and with it an amendment amplifying the specification in connection therewith. The interference was declared July 23, 1941.

From the foregoing it is clear that the drawing was introduced by the Examiner's requirement. It is not so clear that he required the amendment to the specification, and in his motion to dissolve Lynes alleged that the amendment constituted new matter, and contended, in substance, that Lehnhard is not entitled to relate such matter back to the original filing date of his application.

With respect to that contention, it is sufficient to say that the Board did not predicate its holding relative to Lehnhard's right to make the counts upon the matter introduced by amendment, but rested it upon statements which appeared in the application as originally filed, the above quoted statement being the primary basis of the finding.

We quote the following from the Board's decision.

The foregoing description of a treating tool provided with a pair of packers is deemed to be sufficient to teach one skilled in the art the manner of constructing a well treating tool corresponding to the interference counts. There is a disclosure that a pair of packers should be positioned on the tubing with a back pressure valve located between the packers. In order to follow such a disclosure nothing more is necessary than to duplicate the packer shown in the drawings. The Lehnhard application as filed contains an adequate description of the subject matter in issue.

The party Lynes argues that "Lehnhard gave only the most meagre and suggestive disclosure for the use of such two packers" * * *. It may well be that the Lehnhard description is brief, but there is no lack of any essential information, for the relative location of the two packers and the back pressure valve is clearly described and the form of these elements is clearly shown in the drawings.

The party Lynes also points out that the Lehnhard application as filed did not include claims to a structure comprising a pair of spaced packers, nor did it include a drawing showing such a structure. There is no question of laches on the part of the party Lehnhard, for the claims of the Lynes patent were copied by the party Lehnhard within four months of the date of the Lynes patent. The alleged failure of the party Lehnhard to claim the subject matter in issue in his application as filed is therefore of no consequence if the subject matter is sufficiently disclosed therein. Nor is a drawing essential to the right to make an interference count if the subject matter thereof is adequately described in the specification. *Goldsmith* v. *von Mihaly*, 24 C. C. P. A. 1239, 1937 C. D. 633, 485 O. G. 274, 90 F.(2d) 359, 33 USPQ 584. The party Lynes apparently suggests these circumstances, as well as the fact that an interference was not declared before the Lynes patent was granted, as evidence that the Lehnhard application, as filed, does not disclose the subject matter of this interference. Such matters are merely circumstantial and are not controlling where the application expressly describes a structure meeting all the limitations of the interference counts.

Before us it is contended by Lynes that the Board erred in holding that "The Lehnhard application as filed contains an adequate description of the subject matter in issue," and particular emphasis is placed upon the limitation reading (we quote from count 2, supra), "means operable so that the pressure liquid will first inflate said packers and thereafter discharge from the tool." This limitation appears in substance in all the counts, and, in the final analysis, the question of whether the disclosure of Lehnhard's application as originally filed supports this particular limitation constitutes the only issue actually before us upon the phase of the controversy now being discussed.

It seems to us that the quoted statement, of itself, is sufficient to disclose to those skilled in the art the limitation in question. The packers are specifically described as being "hydraulic," which means that they convey liquid, and the amount of expansion or inflation is controlled by a "pressure valve or other similar means." It would seem obvious that, after the operation is completed by the pressure of the liquid between the packers against the surface of the well bore, such liquid as is in the packers themselves is released and discharged from the tool.

However, while the above quoted statement from the Lehnhard specification is the only one discussed in detail by the Board, there are additional disclosures in his application as filed which seem to us to be pertinent here.

In the brief on behalf of Lehnhard before us a comparison is made, element by element, between count 2, supra, and statements of the original specification. In connection with the element, or limitation, now under discussion reading (for convenience we repeat it), "means operable so that the pressure liquid will first inflate said packers and thereafter discharge from the tool," attention is directed to the following appearing in the specification:

* * * With the lugs 9 engaging the J-slots 10 in sleeve 11 so that fluid is prevented from escaping through ports 12, the packing device, assembled as shown, is lowered into the well to the point where it is desired to segregate one portion of the well bore from another during the introduction of the fluid treating agent. The fluid treating agent is then started into the well through the tubing, and, as pressure is applied to force the fluid from the tubing through the packer against the pressure exerted by the spring loaded valve, the packing element is caused to dilate and seat at a pressure which is equivalent to the pressure required to depress the spring loaded valve. As the introduction of fluid is continued under application of sufficient pressure, the valve 20 opens and allows the fluid to escape through the ports 17 into the well bore.

The foregoing, of course, described a device having a single packer but, as the Board aptly said, in substance, nothing more is necessary than to duplicate the packer shown in the drawings in order to follow the disclosure of a tool having a pair of packers.

Counsel for Lynes has urged with much earnestness that since the counts originated in his patent they should be interpreted in the light of his specification and description thereof.

This argument has been studied with care and respectfully considered. We find nothing ambiguous in the counts which would justify a departure from the long-established and well-known rule that the counts of an interference must be given the broadest interpretation of which they reasonably will admit. The two applications were copending and in this case, as has occurred in many cases, the patent was inadvertently issued.

In such cases the statute makes provision for the proceeding to be followed, and the Patent Office and the courts are bound thereby. That proceeding was followed here.

[1] The Board correctly stated that under the state of facts here appearing it was not essential that Lehnhard should have had claims in his application as filed covering the subject matter, or that in order to make the counts such application should have contained a drawing depicting the device. It was sufficient if the specification disclosed it, and we agree with the Board that it did so, and that Lehnhard, therefore, has the right to make the counts.

Turning to the other general issue involved—that of priority— it may be repeated that Lynes in his preliminary statement made no claim of any actual reduction to practice, but relied upon the constructive reduction resulting from the filing of his application on October 13, 1939.

He claims conception on the specific date of August 15, 1937, asserting that on that date he made first drawings, written description and disclosure to others. Also, he alleged the beginning of the exercise of reasonable diligence on that date.

In its decision the Board very carefully reviewed the evidence relating to conception and concluded therefrom that "The party Lynes * * * has failed to prove, by properly corroborated testimony, that he was first to conceive the invention in issue," and, since he was the last of the two parties to reduce the invention to practice, awarded priority to Lehnhard, it being unnecessary to discuss the question of diligence in the absence of a finding of conception.

Lynes introduced in evidence two sketches, marked, respectively, Exhibits 1 and 2, in both of which he insisted below, and here insists, the invention is disclosed, Exhibit 1 being particularly emphasized.

The drawing appearing on Exhibit 1 is a pencil sketch which, as correctly described by the Board,

> • • • shows a testing tool including two inflatable packers and a fluid operated piston to withdraw a sample from that portion of the well bore between the packers. At the lower end of the piston chamber is a ball valve and at the upper limit of the piston is a "Packer Defiation Plunger."

Below the sketch is the following typewritten statement:

> First drawing made by John Lynes on August 15, 1937, in his room at the Texas State Hotel, Houston, Texas, of an assembly for testing formations in a well bore, the assembly consists of an outer and inner tube, the inner tube slidable. Also ball and seat valve and swabbing piston, one or more hydraulically inflated packers fixed to the outer tube, a port for testing. If testing is at bottom of well only one packer would be required, at a high elevation two or more packers would be used. It is possible to pump fluid into the formation isolated between the packers by removing the ball valve and swabbing piston. I certify the above was dictated by me and that the drawing was made by me on August 15, 1937.

The statement is signed by Lynes and witnessed by his wife, who typed it. Three other statements appear on the exhibit. One signed by J. K. Robertson reads:

> John Lynes explained the purpose & use of this drawing in April 1938.

Another signed by J. C. Koetting reads:

> This is drawing of Testing Tool shown and explained to me by John Lynes in July 1938.

The third signed by James Armitage reads:

> On July 29th 1939 in the Texas State Hotel, Houston, Texas John Lynes explained his invention & showed me this drawing. Employing me at that time as his Engineer to assist in the development of the invention.

It will be observed that the statements of Lynes and that of Koetting are to the effect that the device depicted by the drawing is a testing tool.

In the introductory clauses of counts 1 and 2 the invention at issue is referred to as a treating tool, and, while the word "treating" is not used in counts 3 and 4, the structure is so described as to show that the device is a treating tool.

As we understand it, the distinction between a testing tool and a treating tool is that the testing device is lowered into the well bore, which passes through various kinds of physical formations, for the purposes of determining, or testing, the sloughing qualities of the surfaces of the bore, while the function of the treating tool is to apply liquid by heavy pressure to stop or prevent sloughing at the place where the test shows such to be necessary.

With reference to the per se showing of Exhibit 1, the Board said, inter alia:

> • • • it is to be noted that Lynes Exhibit 1 does not disclose on the face of it a complete and operative tool as required by the interference counts. The mere removal of the ball valve and swabbing piston, as suggested in the typewritten matter, would not result in a satisfactory treating tool, for there would then be lacking suitable mechanism for deflating the packers, essential to permit removal of the treating tool. Lynes himself testified that certain ports shown in the sketch would have to be closed • • •. Lynes also indicated that a foot valve might be necessary • • •. It is considered clear that Lynes Exhibit 1, standing alone, does not disclose a complete and operative mechanism meeting the terms of the interference count but must be supplemented by oral or other explanation.

It is very earnestly insisted by counsel for Lynes that Exhibit 1 of itself is sufficient to establish conception, it being stressed that none of the four counts "call for any mechanism for deflating the packers." While this is true in a literal sense, we are unable to discern how a device could be operative within the meaning of the counts if it did not have such mechanism. It will be observed that the Board's holding was that Exhibit I does not disclose on its face a complete and operative device usable as a treating tool.

In the brief on behalf of Lehnhard attention is directed to certain specific elements required by the counts which are not shown in Exhibit 1. Counts 1 and 2 require "a discharge section between said packers," and "means operable so that the pressure liquid will first inflate said packers and thereafter discharge from the tool." Counts 3 and 4 require "means to first direct the liquid to inflate said packers and to thereafter effect discharge of the liquid between the packers into the well bore." Count 2 also calls for "additional means operable by said pipe while said packers are set to divert the liquid into the bore above the tool," and count 4 for a somewhat similar arrangement. We are unable to find these elements defined in Exhibit 1.

It may be that Exhibit 1, standing alone, is sufficient to show conception of a testing tool, but the elements mentioned evidently are vitally essential in a treating tool such as the counts describe, and we are unable to agree that the exhibit, of itself, makes a disclosure which would enable those skilled in the art to construct a device conforming to the counts.

Those called as corroborating witnesses were Mrs. Lynes, Robertson, Koetting, and Armitage. Their testimony was fully analyzed in the decision of the Board, much of it being quoted literally, and no useful purpose would be served by an extensive review of it here.

With respect to the witness Armitage, it will be noted that in his statement appearing on the exhibit he recited that the explanation of the invention was made to him on July 29, 1939. This was subsequent to Lehnhard's filing date (July 21, 1939) and the witness was unable to testify to any conception on the part of Lynes prior to the latter date. His testimony, therefore, is of no value upon the matter of conception.

It is clear that Mrs. Lynes had no technical knowledge of the subject matter involved and she was unable to give any testimony of value in view of the fact that the drawing is not of itself sufficient to disclose the invention.

It appears that the witness Koetting is (or was at the time of testifying) manager of a bakery; that he "took" some interest in a "suspension spring seat" upon which Mr. Lynes was working; that early in 1938 he and Lynes "went into some oil deals"; that Lynes also "handled the purchase of some lands" for him, and that eventually he invested some money in the corporation which, as we understand it, was formed to exploit the invention here involved.

The following is a part of his testimony respecting Exhibit 1:

> Q. With that arrangement how would you go about releasing the packers?
> A. With that arrangement, this drawing does not show it, but there was developed a shear pin which would open up the ports above and release your pressure.
> Q. Did Mr. Lynes explain that to you in July, 1938?
> A. I do not recall that he explained it on that date.
> Q. Did you understand that it would work that way?
> A. I understood of course we would have to develop, we would have to engineer a process for releasing that pres[s]ure. That is a detail that would have to be worked out.

After quoting the above, the Board commented:

> This testimony from a man who invested money in Lynes' idea and who now has stock in the corporation that has been formed • • • is very persuasive that as of July, 1938 Lynes did not have a complete conception of an operative tool meeting the requirements of the interference counts. Koetting's testimony as to the verbal disclosure by Lynes • • • does not indicate that Lynes had a complete conception of an operative mechanism prior to the senior party's filing date. There is likewise no testimony by Koetting which would indicate that the essential packer release elements were developed by Lynes prior to Lehnhard's filing date.

The testimony of the witness Robertson was also lacking in corroborative effect upon essential points. Much of it was quoted in the Board's decision, and it is unnecessary to detail it here.

With respect to Lynes Exhibit 2 (which is a sketch, apparently made in October 1938, generally similar to Exhibit 1) the brief on behalf of Lynes before us states:

> It was ever Lynes' intention, nor does the record so reflect, that conception of the invention would be established by Lynes' Exhibit 2. Lynes submitted his Exhibit 2 solely for the purpose of showing that he was working on the invention, that he was attempting to supplement his previous work and Exhibit 2 serves his purpose because it illustrates that Lynes was attempting to solve the problem of affixing packers to the supporting structure so that they might be inflated.

In view of this statement no consideration of Exhibit 2, nor of the testimony relating to it is required on the question of conception.

[2] We are in agreement with the Board's conclusion that Lynes failed to establish conception of the invention defined in the counts prior to Lehnhard's filing date.

Certain of Lynes' reasons of appeal appear to raise a question of originality, based upon conversations in March 1940 between Lynes and Lehnhard and some of the latter's associates during which a drawing of Lynes was shown to Lehnhard with some explanation of it. Lehnhard and Lynes, seemingly, met each other for the first time on March 4, 1940.

As pointed out by the Board, this meeting took place subsequent to the filing dates of both applications, and we fail to see how any question of originality or derivation can arise under such circumstances, it being held that Lehnhard fully disclosed the subject matter in his application as originally filed on July 21, 1939.

The decision of the Board is affirmed.

Affirmed.



## U. S. Court of Customs and Patent Appeals

### IN RE WARD

*No. 6,040. Decided July 3, 1945*

[150 F.(2d) 436; 66 USPQ 317]

PATENTABILITY—DOUBLE PATENTING.

The appealed claims *Held* properly rejected as unpatentable over the claims of a patent issued to appellant upon a copending application; construing *Traitel Marble Co.* v. *U. T. Hungerford Brass & Copper Co.*, 22 F.(2d) 259.

APPEAL from the Patent Office. Affirmed.

*Mr. James P. Burns* and *Mr. Hugo A. Kemman* for Ward.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner finally rejecting two claims, numbered 18 and 19, of appellant's application, Serial No. 342,910, for patent captioned "for Recovery of Valuable Hydrocarbons," filed June 28, 1940. Several claims stand allowed.

Those on appeal were rejected as being unpatentable over the claims of a Patent No. 2,211,038, issued to appellant August 13, 1940, upon an application, Serial No. 170,508, filed October 22, 1937, no other reference being cited. The application under consideration does not purport to be other than an original application.

Before considering the claims on their merits it is proper to state, or restate, a rule of law.

By reference to the filing dates of the respective applications as above given, it will be observed that the respective applications were copending during the period from June 28, 1940, to August 13, 1940, upon which latter date the patent issued.

Under the circumstances it is conceded that appellant's patent does not constitute prior art against him, but it was cited under the rule as stated by the Examiner:

> It is well settled law that an applicant cannot obtain a second patent unless what is set forth in the claims involves invention over what has already been patented to him. *Ex parte Chapman*, 329 O. G. 263; 1924 C. D. 143.

Neither the Examiner nor the Board used the expression "double patenting" in their decisions, but it is obvious that, unless the claims at issue are for a different invention from the claims of the patent, their grant would result in double patenting and extend appellant's monopoly.

In his brief before us appellant states, inter alia:

> The law is clear that an applicant's copending earlier patent is not a part of the prior art insofar as *its disclosure* is concerned. An epitomized statement of this accepted doctrine appears in the decision of Judge Learned Hand in *Traitel Marble Co.* v. *U. T. Hungerford Brass & Copper Co.*, 22 F.(2d) 259, wherein it was held:
>
> "Calkins' earlier patent *was not part of the prior art, and it is not necessary to the validity of the claims in suit that they should embody a patentable advance over the earlier disclosure. The two applications were copending*, and it is a matter of indifference which of the patents issued first, provided that the claims are for separate inventions."

The italics in the foregoing are those used in appellant's brief. It is noted that the concluding

clause reading, "provided that the claims are for separate inventions," is not italicized in the brief.

In that case the validity of one of two patents issued to the same patentee upon copending applications was called in question. The court found that the patents were for separate inventions; hence, its ruling on the matter of "double patenting."

The ruling has no application in this proceeding, unless it be held that the appealed claims cover an invention different from that defined in the patent claims.

In the instant case the brief of the Solicitor for the Patent Office correctly asserts (see *In re Christmann et al.*, 29 C. C. P. A. (Patents) 1037, 128 F.(2d) 596, 53 USPQ 634, 543 O. G. 3, and cases therein cited):

> It is axiomatic, however, that if two patents are to be granted there must be two inventions present and the issue is, therefore, whether the present claims recite a process which involved an invention over that set forth in the claims of the patent.

The claims of the patent paticularly referred to in the Examiner's decision as being drawn to the same inventive concept as the present appealed claims are Nos. 3 and 6. Appealed claim 18 is illustrative, and for convenience in comparison we here quote it and patent claims 3 and 6 in parallel columns:

| | |
|---|---|
| 18. A process for separating from each other the three relatively highly heat sensitive conjugated diene hydrocarbons of closely similiar and successively increasing boiling points isoprene, cyclopentadiene and piperylene contained in a mixture of said compounds, which comprises selectively dimerizing to dicyclopentadiene the cyclopentadiene component of said mixture, said selective dimerization of said cyclopentadiene being sufficient to reduce the quantity of said intermediately boiling diene in said mixture to a proportion negligible for the separation of said isoprene and piperylene of said mixture from each other by distillation, and separating said isoprene and piperylene from said dicyclopentadiene and from each other by distillation. | 3. In a process for selectively separating cyclopentadiene from a mixture containing other unsaturated substances of similar boiling point including isoprene and piperylene, the step of subjecting said mixture in liquid phase to superatmospheric pressure and to temperature conditions in the neighborhood of 100° C. to selectively dimerize cyclopentadiene to dicyclopentadiene, said superatmospheric pressure being sufficient to maintain said liquid phase.<br>6. In a process for selectively separating cyclopentadiene from a mixture containing other heat polymerizable diene material of similar boiling point wherein said cyclopentadiene is selectively converted to dicyclopentadiene, wherein said dicyclopentadiene is separated from unpolymerized material, and wherein said separated dicyclopentadiene is depolymerized to cyclopentadiene, the step of subjecting said mixture to superatmospheric pressure and to temperature conditions substantially above 40° C. but substantially below 170° C. to selectively convert cyclopentadiene to dicyclopentadiene, said superatmospheric pressure being sufficient to maintain at least the larger part of said mixture in the liquid phase. |

It will be observed that the introductory clause of the appealed claims recite that it is a process for separating three hydrocarbon ingredients of a mixture from each other, while the introductory clauses of the patent claims are for separating one ingredient from a mixture of ingredients. Also, it will be observed that in appealed claim 18 and patent claim 3 the three ingredients named are isoprene, cyclopentadiene, and piperylene, and that in both instances the cyclopentadiene is so treated that it is converted to dicyclopentadiene.

The following clear exposition of the processes involved is quoted from the statement of the Examiner following the appeal to the Board:

> Applicant's alleged invention relates to a process for separating from each other isoprene, cyclopentadiene and piperylene contained in a mixture of these compounds. The boiling points of isoprene, cyclopentadiene and piperylene are 34° C., 40° C. and 43° C., respectively. In view of the small differences of boiling points involved, a separation of these three substances from one another by fractional distillation becomes difficult.
>
> In order to effect a separation of these three components according to applicant's process, the mixture thereof is subjected to a treatment which effects a selective dimerization of the cyclopentadiene into dicyclopentadiene. The isoprene and piperylene remain unchanged. The resulting mixture is then fractionally distilled in order to effect a separation of isoprene, piperylene and dicyclopentadiene from one another. Since the intermediate boiling cyclopentadiene of the original mixture has been converted to dicyclopentadiene with a boiling point of about 172° C., the separation of isoprene from piperylene by fractional distillation is facilitated.
>
> The step of selectively dimerizing cyclopentadiene in the presence of isoprene and piperylene is carried out by heating a mixture of these three compounds at a temperature in the range of 40 to 170° C. and under a superatmospheric pressure sufficient to maintain the mixture at least partially in the liquid phase.
>
> • • • • • • • •
>
> Claims 18 and 19 are rejected as unpatentable over the claims of applicant's prior Patent No. 2,211,038. The claims of the patent are directed to a process for selectively dimerizing cyclopentadiene admixed with other heat-polymerizable, dioleine hydrocarbons such as isoprene and piperylene. Thus, for example, claim 3 of the patent calls for treating a mixture containing isoprene, cyclopentadiene and piperylene at a temperature in the range of 40 to 170° C. and at a pressure sufficient to maintain the mixture in the liquid phase. Claim 6 of the patent is similar to claim 3 but differs therefrom in that the diene material admixed with the cyclopentadiene is characterized as having a similar boiling point and as being heat polymerizable. It also recites the steps of separating the dicyclopentadiene from the unpolymerized material and depolymerizing the dicyclopentadiene so separated to cyclopentadiene.

It here may be remarked that the temperature range of 40° C. to 170° C., stated by the Examiner to be called for by claim 3 of the patent, in fact appears in claim 6, as will be seen by reference to the claims, supra.

After the above comparison the Examiner continued:

> It is apparent from a comparison of claims 18 and 19 of the instant application with claim 3 of the patent that the former differ from the latter in that they recite the added step of separating the mixture obtained from the selective dimerization step into isoprene, piperylene, and dicyclopentadiene by distillation. It is the opinion of the Examiner, however, that this latter step adds nothing of patentable merit to the claim of the patent. It is, of course, conventional to separate various liquid mixtures into their individual components by fractional distillation, and the principles upon which such separations are based are well known to the skilled chemist. It would be apparent to the skilled chemist, therefore, that a separation of the mixture obtained as a result of the process set forth in the claims of the patent could be effected by fractional distillation, if so desired. Hence, no invention would be involved in separating into its individual components by means of fractional distillation the mixture obtained as a result of the process claimed in the patent.
>
> • • • • • • • •
>
> It is to be noted from the disclosure of the patent that the mixture of isoprene, piperylene and dicyclopentadiene obtained as a result of the selective dimerization step has no utility per se and that it must be processed further, as by fractional distillation, to separate therefrom dicyclopentadiene which may in turn be depolymerized to cyclopentadiene • • •. Furthermore, the patent states that the step of selectively dimerizing cyclopentadiene in the presence of isoprene and piperylene is of utility in a process for the recovery of these latter compounds when admixed with cyclopentadiene.



In the brief on behalf of appellant the errors alleged in his reasons of appeal are epitomized as follows:

> • • • Succinctly, the Examiner and the Board of Appeals erred:
> (*a*) In their construction of the claims of appellant's Patent No. 2,211,038;
> (*b*) In their construction of appealed claims 18 and 19; and
> (*c*) In their reliance *upon the disclosure* of appellant's Patent No. 2,211,038 to supplement the rejection purportedly bottomed upon the claims of that patent. [Italics quoted.]

We assume that had the claims here involved been presented in appellant's application upon which his patent was based they would have been allowed as expressing in different phraseology the inventive concept common to claims 3 and 6 of the patent.

We are unable to understand why appellant did not then present them but chose to wait until about six weeks before accepting the patent and then present them in an application original on its face.

Referring to the specific allegations of error quoted above as being epitomized in appellant's brief, we fail to find wherein the tribunals of the Patent Office made an erroneous construction of the claims of appellant's patent or of the claims on appeal, nor do we find any error in their reliance upon the disclosure of the patent for the purposes stated by them.

In the argumentative part of the brief on behalf of appellant it is said:

> That appellant has contributed a series of meritorious patentable contributions to the art is undenied. One of those contributions is represented by appellant's patent No. 2,211,038 • • •, and another by allowed claims 7, 11, 15, 16, and 20 • • • of the application here on appeal.

The contention so made is doubtless true, and for such contribution to the art he has received one patent and later, upon the record as it now stands, will receive another. Under the law governing the grant of patents, however, he is not entitled to include in the second patent claims which would extend the monopoly incident to the first patent beyond the period fixed by that law.

It seems clear to us that the grant of the appealed claims would so extend his monopoly and that, therefore, they were properly rejected.

The decision of the Board is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

IN RE IRMSCHER

*No. 5,028. Decided July 3, 1945*

[150 F.(2d) 705; 66 USPQ 314]

1. PATENTABILITY—INVENTION—COMMERCIAL SUCCESS.
   "An improvement which results in no more than is to be expected from one skilled in the art does not constitute invention and where lack of novelty and invention are clearly shown, no legal significance can be attached to the fact that utility and commercial success were accomplished by the efforts of an applicant for a patent."
2. SAME—APPARATUS AND METHOD FOR HANDLING ARTICLES.
   Certain claims to apparatus and method for handling articles *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Mr. Louis Barnett* for Irmscher.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

The subject matter of this appeal relates to a delivery counting method and apparatus for handling articles particularly tea balls which issue in rapid succession from a packaging machine. A folded string-handle is positioned against the flat side of each tea ball for conveniently arranging the tea balls in cartons for shipping.

In his decision on patentability of the claims in appellant's application for a patent, the Primary Examiner allowed claims 15, 16, and 17 for a specific intermittent conveyor apparatus; but rejected, as unpatentable over the prior art, claims 18, 19, and 38 also for the apparatus, and claims 31, 33, and 34 for the method of operating it. The action of the Examiner was affirmed by the Board of Appeals and its decision is brought before the court for review.

Of the appealed claims, No. 38, relating to apparatus, and No. 33, relating to method, are considered illustrative. They read:

> 38. In combination with a delivery end of a machine for manufacturing packaged articles having a power-driven lift transfer mechanism for discharging said articles at a uniform rate from said mechanism, a counting-delivery device adapted to receive said articles comprising a conveyor on which said articles are deposited by said mechanism, and driving means for advancing the conveyor with said articles at a uniform normal speed in timed relation to the transfer mechanism and for intermittently advancing said conveyor with said articles thereon at an accelerated speed over said uniform normal speed for segregating the articles being transferred in predetermined counted units on said conveyor to facilitate determining desired quantities without counting the individual articles, said mechanism and conveyor being so constructed and arranged to permit observation and determination of said desired quantities and the removal of groups of successive units thereof for packing and shipment.
>
> 33. In a method of the character described the steps of moving completely manufactured packages in succession at a uniform rate, segregating said packages after said movement into groups of equally numbered packages with each group spaced apart sufficiently from others to indicate a predetermined count unit, observing and determining solely thereby definite quantities of individual packages comprising groups of said units, and manually removing said groups so observed and determined as being said definite quantities of packages for cartoning and shipping.

The references are: Brown, 1,519,354, December 16, 1924; McKee et al., 1,976,855, October 16, 1934; Bleile, 863,349, August 13, 1907; Allatt, 2,290,158, July 21, 1942.

Appellant indicated in his specification that his invention "may be constructed to operate like the bag transfer means shown and described in the Allatt patent." Appellant claims however that due to the delivery transfer end of the mechanism disclosed in his application, instead of delivering tea balls individually for packaging as provided for in Allatt, appellant delivers them in segregated groups in overlapping relation, for example five tea balls in a group; so that the operator of the machine in the exercise of his faculties of observing and determining may thereby ascertain a predetermined number of the segregated groups and pick up and package them without counting the individual tea balls and without further appraisal of the number of the segregated groups.

clause reading, "provided that the claims are for separate inventions," is not italicized in the brief.

In that case the validity of one of two patents issued to the same patentee upon copending applications was called in question. The court found that the patents were for separate inventions; hence, its ruling on the matter of "double patenting."

The ruling has no application in this proceeding, unless it be held that the appealed claims cover an invention different from that defined in the patent claims.

In the instant case the brief of the Solicitor for the Patent Office correctly asserts (see *In re Christmann et al.*, 29 C. C. P. A. (Patents) 1037, 128 F.(2d) 596, 53 USPQ 634, 543 O. G. 3, and cases therein cited):

> It is axiomatic, however, that if two patents are to be granted there must be two inventions present and the issue is, therefore, whether the present claims recite a process which involved an invention over that set forth in the claims of the patent.

The claims of the patent paticularly referred to in the Examiner's decision as being drawn to the same inventive concept as the present appealed claims are Nos. 3 and 6. Appealed claim 18 is illustrative, and for convenience in comparison we here quote it and patent claims 3 and 6 in parallel columns:

| | |
|---|---|
| 18. A process for separating from each other the three relatively highly heat sensitive conjugated diene hydrocarbons of closely similiar and successively increasing boiling points isoprene, cyclopentadiene and piperylene contained in a mixture of said compounds, which comprises selectively dimerizing to dicyclopentadiene the cyclopentadiene component of said mixture, said selective dimerization of said cyclopentadiene being sufficient to reduce the quantity of said intermediately boiling diene in said mixture to a proportion negligible for the separation of said isoprene and piperylene of said mixture from each other by distillation, and separating said isoprene and piperylene from said dicyclopentadiene and from each other by distillation. | 3. In a process for selectively separating cyclopentadiene from a mixture containing other unsaturated substances of similar boiling point including isoprene and piperylene, the step of subjecting said mixture in liquid phase to superatmospheric pressure and to temperature conditions in the neighborhood of 100° C. to selectively dimerize cyclopentadiene to dicyclopentadiene, said superatmospheric pressure being sufficient to maintain said liquid phase.<br>6. In a process for selectively separating cyclopentadiene from a mixture containing other heat polymerizable diene material of similar boiling point wherein said cyclopentadiene is selectively converted to dicyclopentadiene, wherein said dicyclopentadiene is separated from unpolymerized material, and wherein said separated dicyclopentadiene is depolymerized to cyclopentadiene, the step of subjecting said mixture to superatmospheric pressure and to temperature conditions substantially above 40° C but substantially below 170° C. to selectively convert cyclopentadiene to dicyclopentadiene, said superatmospheric pressure being sufficient to maintain at least the larger part of said mixture in the liquid phase. |

It will be observed that the introductory clause of the appealed claims recite that it is a process for separating three hydrocarbon ingredients of a mixture from each other, while the introductory clauses of the patent claims are for separating one ingredient from a mixture of ingredients. Also, it will be observed that in appealed claim 18 and patent claim 3 the three ingredients named are isoprene, cyclopentadiene, and piperylene, and that in both instances the cyclopentadiene is so treated that it is converted to dicyclopentadiene.

The following clear exposition of the processes involved is quoted from the statement of the Examiner following the appeal to the Board:

> Applicant's alleged invention relates to a process for separating from each other isoprene, cyclopentadiene and piperylene contained in a mixture of these compounds. The boiling points of isoprene, cyclopentadiene and piperylene are 34° C., 40° C. and 43° C., respectively. In view of the small differences of boiling points involved, a separation of these three substances from one another by fractional distillation becomes difficult.
>
> In order to effect a separation of these three components according to applicant's process, the mixture thereof is subjected to a treatment which effects a selective dimerization of the cyclopentadiene into dicyclopentadiene. The isoprene and piperylene remain unchanged. The resulting mixture is then fractionally distilled in order to effect a separation of isoprene, piperylene and dicyclopentadiene from one another. Since the intermediate boiling cyclopentadiene of the original mixture has been converted to dicyclopentadiene with a boiling point of about 172° C., the separation of isoprene from piperylene by fractional distillation is facilitated.
>
> The step of selectively dimerizing cyclopentadiene in the presence of isoprene and piperylene is carried out by heating a mixture of these three compounds at a temperature in the range of 40 to 170° C. and under a superatmospheric pressure sufficient to maintain the mixture at least partially in the liquid phase.
>
> • • • • • • • •
>
> Claims 18 and 19 are rejected as unpatentable over the claims of applicant's prior Patent No. 2,211,038. The claims of the patent are directed to a process for selectively dimerizing cyclopentadiene admixed with other heat-polymerizable, diolefine hydrocarbons such as isoprene and piperylene. Thus, for example, claim 3 of the patent calls for treating a mixture containing isoprene, cyclopentadiene and piperylene at a temperature in the range of 40 to 170° C. and at a pressure sufficient to maintain the mixture in the liquid phase. Claim 6 of the patent is similar to claim 3 but differs therefrom in that the diene material admixed with the cyclopentadiene is characterized as having a similar boiling point and as being heat polymerizable. It also recites the steps of separating the dicyclopentadiene from the unpolymerized material and depolymerizing the dicyclopentadiene so separated to cyclopentadiene.

It here may be remarked that the temperature range of 40° C. to 170° C., stated by the Examiner to be called for by claim 3 of the patent, in fact appears in claim 6, as will be seen by reference to the claims, supra.

After the above comparison the Examiner continued:

> It is apparent from a comparison of claims 18 and 19 of the instant application with claim 3 of the patent that the former differ from the latter in that they recite the added step of separating the mixture obtained from the selective dimerization step into isoprene, piperylene, and dicyclopentadiene by distillation. It is the opinion of the Examiner, however, that this latter step adds nothing of patentable merit to the claim of the patent. It is, of course, conventional to separate various liquid mixtures into their individual components by fractional distillation, and the principles upon which such separations are based are well known to the skilled chemist. It would be apparent to the skilled chemist, therefore, that a separation of the mixture obtained as a result of the process set forth in the claims of the patent could be effected by fractional distillation, if so desired. Hence, no invention would be involved in separating into its individual components by means of fractional distillation the mixture obtained as a result of the process claimed in the patent.
>
> • • • • • • • •
>
> It is to be noted from the disclosure of the patent that the mixture of isoprene, piperylene and dicyclopentadiene obtained as a result of the selective dimerization step has no utility per se and that it must be processed further, as by fractional distillation, to separate therefrom dicyclopentadiene which may in turn be depolymerized to cyclopentadiene • • •. Furthermore, the patent states that the step of selectively dimerizing cyclopentadiene in the presence of isoprene and piperylene is of utility in a process for the recovery of these latter compounds when admixed with cyclopentadiene.



In the brief on behalf of appellant the errors alleged in his reasons of appeal are epitomized as follows:

> • • • Succinctly, the Examiner and the Board of Appeals erred:
> (*a*) In their construction of the claims of appellant's Patent No. 2,211,038;
> (*b*) In their construction of appealed claims 18 and 19; and
> (*c*) In their reliance *upon the disclosure* of appellant's Patent No. 2,211,038 to supplement the rejection purportedly bottomed upon the claims of that patent. [Italics quoted.]

We assume that had the claims here involved been presented in appellant's application upon which his patent was based they would have been allowed as expressing in different phraseology the inventive concept common to claims 3 and 6 of the patent.

We are unable to understand why appellant did not then present them but chose to wait until about six weeks before accepting the patent and then present them in an application original on its face.

Referring to the specific allegations of error quoted above as being epitomized in appellant's brief, we fail to find wherein the tribunals of the Patent Office made an erroneous construction of the claims of appellant's patent or of the claims on appeal, nor do we find any error in their reliance upon the disclosure of the patent for the purposes stated by them.

In the argumentative part of the brief on behalf of appellant it is said:

> That appellant has contributed a series of meritorious patentable contributions to the art is undenied. One of those contributions is represented by appellant's patent No. 2,211,038 • • •, and another by allowed claims 7, 11, 15, 16, and 20 • • • of the application here on appeal.

The contention so made is doubtless true, and for such contribution to the art he has received one patent and later, upon the record as it now stands, will receive another. Under the law governing the grant of patents, however, he is not entitled to include in the second patent claims which would extend the monopoly incident to the first patent beyond the period fixed by that law.

It seems clear to us that the grant of the appealed claims would so extend his monopoly and that, therefore, they were properly rejected.

The decision of the Board is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

IN RE IRMSCHER

*No. 5,028. Decided July 3, 1945*

[150 F.(2d) 705; 66 USPQ 314]

1. PATENTABILITY—INVENTION—COMMERCIAL SUCCESS.
"An improvement which results in no more than is to be expected from one skilled in the art does not constitute invention and where lack of novelty and invention are clearly shown, no legal significance can be attached to the fact that utility and commercial success were accomplished by the efforts of an applicant for a patent."

2. SAME—APPARATUS AND METHOD FOR HANDLING ARTICLES.
Certain claims to apparatus and method for handling articles *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Mr. Louis Barnett* for Irmscher.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

The subject matter of this appeal relates to a delivery counting method and apparatus for handling articles particularly tea balls which issue in rapid succession from a packaging machine. A folded string-handle is positioned against the flat side of each tea ball for conveniently arranging the tea balls in cartons for shipping.

In his decision on patentability of the claims in appellant's application for a patent, the Primary Examiner allowed claims 15, 16, and 17 for a specific intermittent conveyor apparatus; but rejected, as unpatentable over the prior art, claims 18, 19, and 38 also for the apparatus, and claims 31, 33, and 34 for the method of operating it. The action of the Examiner was affirmed by the Board of Appeals and its decision is brought before the court for review.

Of the appealed claims, No. 38, relating to apparatus, and No. 33, relating to method, are considered illustrative. They read:

> 38. In combination with a delivery end of a machine for manufacturing packaged articles having a power-driven lift transfer mechanism for discharging said articles at a uniform rate from said mechanism, a counting-delivery device adapted to receive said articles comprising a conveyor on which said articles are deposited by said mechanism, and driving means for advancing the conveyor with said articles at a uniform normal speed in timed relation to the transfer mechanism and for intermittently advancing said conveyor with said articles thereon at an accelerated speed over said uniform normal speed for segregating the articles being transferred in predetermined counted units on said conveyor to facilitate determining desired quantities without counting the individual articles, said mechanism and conveyor being so constructed and arranged to permit observation and determination of said desired quantities and the removal of groups of successive units thereof for packing and shipment.
>
> 33. In a method of the character described the steps of moving completely manufactured packages in succession at a uniform rate, segregating said packages after said movement into groups of equally numbered packages with each group spaced apart sufficiently from others to indicate a predetermined count unit, observing and determining solely thereby definite quantities of individual packages comprising groups of said units, and manually removing said groups so observed and determined as being said definite quantities of packages for cartoning and shipping.

The references are: Brown, 1,519,354, December 16, 1924; McKee et al., 1,976,855, October 16, 1934; Bleile, 863,349, August 13, 1907; Allatt, 2,290,158, July 21, 1942.

Appellant indicated in his specification that his invention "may be constructed to operate like the bag transfer means shown and described in the Allatt patent." Appellant claims however that due to the delivery transfer end of the mechanism disclosed in his application, instead of delivering tea balls individually for packaging as provided for in Allatt, appellant delivers them in segregated groups in overlapping relation, for example five tea balls in a group; so that the operator of the machine in the exercise of his faculties of observing and determining may thereby ascertain a predetermined number of the segregated groups and pick up and package them without counting the individual tea balls and without further appraisal of the number of the segregated groups.

Appellent submitted evidence to establish that the elimination of counting as provided for in the appealed claims resulted in approximately a three-fold increase in the possible output in the number of tea balls that can be packaged per minute by the operator of a machine for packaging tea balls. Appellant urges here that his provision of a method and improved combination for packaging tea balls has been and is proving an immediate success which should be persuasive evidence of patentable invention.

Relative to the appealed and allowed claims, a statement is made in appellant's brief to the following effect:

> Referring now to the applicant's specifications and drawings, the invention accomplished the improved results by providing the conveyor belt 15 (Figs. 1 and 2), which receives the finished tea balls 14 with the folded string-handles 14s issuing successively at a uniform rate from the delivery end of machine 10, that is, from the transfer means 13, with a suitable drive so that successive tea balls 14 will be deposited on the belt 15 in segregated groups and in overlapping relation with the folded string-handles intact. The drive for belt 15 produces cyclic intervals of belt movement which momentarily drives the belt 15 at a higher speed to create spaces between said groups of segregated tea balls. The specific structural mechanism construction for causing this particular cyclic belt movement forms the subject-matter of the allowed claims 15, and 16 and 17.

It may be here noted that the invention embodied in the specific construction of the belt advancing elements defined in the allowed claims when used in connection with the machine as shown in Allatt entitled appellant upon due proceedings had to a patent for a work-performing machine which in its normal and usual operation may be utilized to deliver tea balls in predetermined segregated groups in overlapping relation so that the operator of the machine may pick up a number of such groups and place them in a package ready for shipping.

What appellant seeks to obtain by this appeal is the allowance of additional claims for apparatus, such as defined in claim 38, which provides for a combination of elements "some of which," he contends, "are old in the art." He seeks further the allowance of claims for method; such as defined in claim 33, which, so far as pertinent to the issue, provides for "observing and determining solely thereby definite quantities of individual packages comprising groups of said units, and manually removing said groups so observed and determined as being said definite quantities of packages for cartoning and shipping."

Appellant insists also that the limitation in claim 34, "in which the groups observed and removed are limited to a maximum of five units in number," is a critical limitation which defines patentable invention.

Although appellant contends here that his use of old elements does not negative invention of the combination claimed, it is noted that in the arrangement and operation of the elements defined in the patent to Brown, units of material issuing from a work-performing machine are delivered at a uniform rate on the conveyor belt in a series of groups each of which comprises a predetermined number of units in overlapping relation ready to be packaged and shipped. It is also true, as described in the brief for the Solicitor of the Patent Office, that:

> The patents to Bielle, No. 863,349 (R. 44), and McKee et al. (R. 60), show machines in which material is fed uniformly to a conveyor which is moved irregularly to place the material in spaced piles. In Bielle this material is dough, while in McKee et al. it is slices of meat. These patents, which are similar to Brown, are merely cumulative and need not be considered in detail.

The patent to Allatt discloses a power-driven lift transfer mechanism designed to have the same place and function in the combination as the lift transfer mechanism described in the appealed claim. It is therefore clear that claim 38 merely defines a combination of elements disclosed by the references such as Allatt and Brown.

The limitations of claims 18 and 19 define an apparatus the details of which provide for no special coaction with those of the spacing conveyor and the claims are therefore unpatentable over the cited references. The counter mechanism recited in claim 19 is but a conventional expedient the addition of which does not produce a new and patentable combination.

The combination defined in the appealed claims relative to apparatus discloses a conveyor which operates in the same manner after it receives the articles as the conveyor disclosed in the references, regardless of the nature of the articles or the manner of placing them on the conveyor. In the absence of an otherwise patentable concept, appellant's combination is definitely not a matter of invention and the Board of Appeals was manifestly right in so holding.

Relative to the method claims, appellant contends that the references, such as Brown, do not contain the limitation of "observing and determining solely thereby definite quantities of individual packages" and "manually removing" them for packing, and therefore such limitations are not anticipated by the prior art.

It is noted however that the arrangement in Brown contemplates the delivery of a predetermined number of units in each group to eliminate the necessity of counting and to facilitate their removal for packing. In this connection, Brown provides:

> By means of the present invention the slices from a stacker of any well-known form, such as that shown in the patent above referred to, are received upon a traveling conveyer which moves intermittently so that the slices are arranged in offset or overlapping relation and the slices thus arranged may be divided into separated groups, which can be varied in size, to permit wrapping in bundles or packages.

It is obvious that Brown permits and contemplates the exercise of the faculty of observing and thereby determining the desired quantities of groups and their manual removal for packing, and the Board of Appeals was right in holding not only that no patentable invention was involved in such limitation of the appealed claims, but also that the exact number of units picked up by an operator for removal to a package was obviously no more than a matter of choice.

[1] Assuming without holding that the evidence submitted by appellant established approximately a three-fold increase over the disclosure of the prior art in the possible output in the number of tea balls that can be packaged per minute, it does not follow that appellant is entitled to a patent. An improvement which results in no more than is to be expected from one skilled in the art does not constitute invention and where lack of novelty and invention are clearly shown, no legal significance can be attached to the fact that utility and commercial success were accomplished by the efforts of an applicant for a patent. See *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, 314 U. S. 84, 90–92, 534 O. G. 699.

Appellant has assumed here, as the Examiner and the Board of Appeals seem to have assumed, that the method claims are limited to a simultaneous removal of several groups of the balls from the conveyor as "by a quick motion of the hand." The appealed claims do not contain a specific limitation to that effect, but if they did, no invention is involved in picking up a number of articles at a time.

[2] Other points raised by appellant do not require statement and discussion in this opinion since the record fully warrants the rejection of the appealed claims, and the affirmance of the decision of the Board of Appeals.

Affirmed.

## Changes in Classification

Order No. 4,001, November 26, 1945, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

*IN THE MANUAL OF CLASSIFICATION:*

### ABOLISH SUBCLASSES

In *class 22, Metal Founding* (Division 3):
- 218 Ingots
- 219 Composite

In *class 29, Metal Working* (Divisions 13, 14):
Metal stock and blanks
- 181 Compound
- 182 Bars and tubes
- Piles and fagots
- 183 Parallel bars
- 184 Railroad rails
- 185 Tubular
- 186 Box and scrap

### ABOLISH SUBCLASS TITLE

In *class 29, Metal Working* (Divisions 13, 14), the unnumbered subclass title:

Piles and fagots

which immediately follows subclass 182.

### CHANGE SUBCLASS TITLES

In *class 29, Metal Working* (Divisions 13, 14), subclass 25.11 should read:

Special work
- Electric lamp or space discharge device making
- 25.11 Processes

subclass 180 should read:

180 Metal stock, blanks or indeterminate articles

### ESTABLISH SUBCLASSES

In *class 29, Metal Working* (Divisions 13, 14):
Metal stock, blanks or indeterminate articles
- 183 Shapes or structures
- 183.5 Dimensions or physical proportions
- 184 Piles or fagots
- 185 Tubular
- 186 Box and scrap
- 187 Ingots, pigs, blooms, packs, slabs and billets
- 187.5 Compound (i. e., plural metallic layers or parts)
- 190 Blanks (i. e., incomplete articles of manufacture)
- 191 Compound (i. e., plural metallic layers or parts)
- 191.2 One component particulate
- 191.4 Foraminous or discontinuous, encased component
- 191.6 Strips, rods, bars, or wires
- 192 Particulate
- 193 Strips, rods, bars, or wires
- 193.5 Reoccurring pattern
- 194 Compound (i. e., plural metallic layers or parts)
- 195 With additional non-metallic component
- 195.5 Heat-expansion characteristic
- 196 One component Fe containing
- 196.1 Adjacent component Fe containing
- 196.2 Adjacent component Al or Mg containing
- 196.3 Adjacent component Cu containing
- 196.4 Adjacent component Sn containing
- 196.5 Adjacent component Zn containing
- 196.6 Adjacent component Ni, Cd, Cr, Pb, or Co containing
- 197 One component Al or Mg containing
- 197.5 Adjacent component Al or Mg containing
- 198 One component W, Mo, Mn, V, Ta, or Ti containing
- 199 One component Cu, Ag, or Au containing

In *class 89, Ordnance* (Division 22):
- 1.7 Rocket launching and non-recoil gun types

In *class 153, Metal Bending* (Division 14):
- 10.5 Hollow body (e. g., can) crushing

In *class 222, Dispensing* (Division 35):
With cutter and/or punch
To form dispensing opening in container or gas pressure discharge assistant reservoir
Mounted for relative motion
- 93.5 With sleeve or rest for container cut

In *class 238, Railways, Surface Track* (Division 34):
Rail joints
- 161.5 Lubricant or liquid containing

### MISCELLANEOUS CHANGES

On page 121, the title of subclass 114 should read: *Landside.*

On page 171 (1941) cancel the matter pertaining to classes 132, Toilet, and 133, Coin Handling.

On page 252b (1944), the title of subclass 91 should read: *Bail cars.*

On page 257, cancel the matter pertaining to class 226, Filling and Closing Portable Receptacles.

### PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

| Abolished | | Disposition | |
|---|---|---|---|
| *Class* | *Subclass* | *Class* | *Subclass* |
| 22 | 218+ | 29 | 187+ |
| 29 | 181+ | 29 | 191+, 194+ |
| 29 | 183, 184 | 29 | 184 |
| 29 | 185 | 29 | 185 |
| 29 | 186 | 29 | 186 |

### PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

| Established | | Sources | |
|---|---|---|---|
| *Class* | *Subclass* | *Class* | *Subclass* |
| 29 | 183+ | 29 | 180 to 182 |
| 29 | 184 | 29 | 183, 184 |
| 29 | 185 | 29 | 185 |
| 29 | 186 | 29 | 186 |
| 29 | 187+ | 22 | 218+ |
| 29 | 190 | 29 | 148+, 180+ |
| 29 | 191+ | 29 | 181+ |
| 29 | 194+ | 29 | 181+ |
| 29 | 194+ | 148 | 31+ |
| 29 | 194+ | 204 | 1 to 58 |
| | | 297 | 15+ |
| 89 | 1.7 | 89 | 1, 37, 37.5, 40 |
| | | 102 | 34.1, 34.2 |
| 153 | 10.5 | 153 | 10 |
| 222 | 93.5 | 65 | 61 |
| | | 222 | 83 |
| 238 | 161.5 | 238 | 151, 244 |

*IN THE DEFINITIONS:*

**15, Brushing, Scrubbing, and General Cleaning** (Division 27)

in subclass 256.5, under "Search Class:" add in numerical order:

97—PLOWS, subclass 222+.

**16, Miscellaneous Hardware** (Division 20)

in subclass 110, (4) Note, cancel "156, Curtains, Shades and Screens, subclass 40".

**22, Metal Founding** (Division 3)

abolish the definitions and notes of subclasses 218 and 219.

**29, Metal Working** (Divisions 13, 14)

in the main class definition, add:

(1) Note.—Patents claiming both an article or product and a process of manufacturing that article or product which process is classifiable in this class, are classified in a suitable article or product class and cross referenced to the appropriate subclass of this class.;

in subclass 4.5, under "Search Classes", add in numerical order:

153—METAL BENDING, subclass 10.5, for machines and processes for crushing hollow metal bodies such as tin cans, automobile bodies, etc.;

in subclass 17, in the definition, after "machines" insert *and processes*;

in subclass 19, add:

**Search this class, subclass—**

184+—for assemblages of two or more separate pieces of metal arranged to facilitate rolling or forging into a unitary piece.

187+—for packs.

191+ and 194+—for packs comprising a plurality of joined layers of metal.;

in subclass 25.10, in the definition, cancel "blanks,";

in (3) Note, cancel "blank,";

in (4) Note, cancel "blank or";

and under "Search This Class, Subclass", add in numerical order:

180+—for stock material and blanks.;

in subclass 25.11, in the definition, change "Blanks and processes" to *Processes*, and under "Search This Class, Subclass", in the reference to subclass 25.13, cancel "blanks and";

in subclass 25.12, in the definition, change "Blanks and processes" to *Processes*;

in subclass 25.13, in the definition, cancel ", and blanks for use in such processes";

in subclass 25.14, in the definition, cancel "and the blanks for such processes";

and under "Search This Class, Subclass", add:

180+—for metal stock and blanks.;

in subclass 25.15, in the definition, cancel ", and the blanks for such processes",

and under "Search This Class, Subclass", add:

180+—for metal stock and blanks.;

in subclass 25.16, in the definition, cancel ", and the blanks for such processes";

in subclass 25.18, in the definition, cancel ", and the blanks for such processes";

in subclass 25.41, in the definition, cancel "blanks,";

in (3) Note, cancel "blank,";

and under "Search This Class, Subclass", add:

180+—for metal stock and blanks.

in subclass 66, under "Search Classes", in the reference to class 153, Metal Bending, after "structures", add:

and especially subclass 10.5, for machines and processes for crushing hollow metal bodies such as tin cans, automobile bodies, etc.;

in subclass 149, cancel the note and substitute:

**Search this class, subclass—**

184—for piles or fagots comprising rails.

191.6—for rod or bar structures comprising two or more metals.

194+—for compound metal stock distinguished by the composition of the metallic parts thereof.;

in subclass 155.41 under (3) Note, in the reference to class 29, Metal Working, cancel "subclasses 180, 181, and 182" and substitute: *subclass 180+, but particularly subclasses 191.6, 193+ and 194+*;

and under "Search This Class, Subclass", cancel the references to subclass 181 and subclass 182;

in subclass 155.42, under "Search This Class, Subclass", cancel the reference to subclass 182 and add:

191+ and 194+—for compound bars and wires.:

in subclass 160.5, under (2) Note, cancel "and products";

in subclass 169.2, under (1) Note, cancel "blanks and";

under (2) Note, cancel "blanks and";

in subclass 179.5, under "Search This Class, Subclass", cancel the reference to subclass 180+ and substitute:

180+—for metal blanks, bars, plates, wires, etc., suitable for forming joints with non-metallic materials. Note especially subclasses 187.5, 191+, and 194+, where the metal part is made of two or more metallic components, one of which may be suitable for joining to a non-metallic part and subclass 195 for compound metal stock to which is bonded a non-metallic part.;

cancel the definitions of subclasses 180, 181, 182, 183, 184, 185 and 186 and substitute:

180. Metallic or free-metal-containing materials, not elsewhere classifiable, which are (1) in a state of incomplete manufacture requiring further significant shaping either for use or for assemblage with other materials, (2) completely manufactured except that at least one dimension (e. g., length), is indeterminate so that an indeterminate number of pieces may be obtained from one lot of material, or (3) miscellaneous articles of manufacture distinguished only by (*a*) the material, or disposition of two or more materials, of which they are comprised, or (*b*) their processes of manufacture.

(1) Note.—"Metallic" is defined as having any one of the following properties:

(*a*) Consisting of free metal in the elemental state.

(*b*) Consisting of an alloy of two or more different metals.

(*c*) Consisting of one or more metals alloyed with one or more non-metals as defined in class 75, METALLURGY, subclass 122, (1) Note.

(2) Note.—For purposes of classification of a patent to this and indented subclasses, the order of superiority of the several classes of invention, when two or more are claimed in the same patent, is as follows:

(*a*) Processes of using an article, product, or material.

(*b*) Apparatus which performs the process of using an article, product, or material.

(*c*) The article, product, or material, classified in this and indented subclasses.

(*d*) Processes of manufacturing the article, product, or material.

(*e*) Apparatus which performs the process of manufacturing the article, product, or material.

This order of superiority is followed even though the process of manufacturing an article, product, or material is classifiable in a preceding subclass of this class.

(3) Note.—For purposes of classification of a patent to this and indented subclasses, the order of superiority for various articles, products, and materials, where two or more are claimed in the same patent, is as follows:

(*a*) Completed article or completed subcombination thereof.

(*b*) Blank or uncompleted article of manufacture (e. g., class 29, subclass 190).

(*c*) Metal stock having a significant structural configuration which is either common to a number of different articles or not necessarily that of any particular article (e. g., class 29, subclass 183+).

(*d*) Metal stock having no significant structural configuration but is distinguished only by either its composite character or the composition of two or more of its component parts (e. g., class 29, subclass 194+).

(*e*) Metal stock having no significant structural configuration and distinguished only by the internal structure of the single metal or metallic composition comprising the product (e. g., class 148, subclass 31+).

(*f*) Products composed of metallic alloys and having no significant structural configuration (e. g., class 75, subclass 122+).

(*g*) Products composed of elemental metal and having no significant structural configuration (e. g., class 75, subclass 0.5).

This order of superiority is followed even though the completed article is classifiable in a succeeding subclass of this class.



**Search this class, subclass—**

4.5—for apparatus and processes for manufacturing metal wool.

17+—for apparatus and processes for manufacturing metal foils not elsewhere classifiable.

155.41+—for processes for manufacturing wires or filaments.

163.5—for processes for manufacturing multi-perforated metal.

165—for processes for manufacturing compound bars and tubes.

169—for processes for manufacturing compound plates.

**Search Class—**

20—WOODEN BUILDINGS, subclass 74, for molding strips.

28—TEXTILES, subclass 78+, for textile fabrics not otherwise classified.

32—DENTISTRY, subclass 15+, for dental fillings.

41—ORNAMENTATION, subclass 17+, for metallic surfaces configured to produce an ornamental effect.

51—ABRADING, subclass 309, for metal containing materials suitable for abrading.

57—TEXTILES, SPINNING, TWISTING AND TWINING, subclass 139+, for twisted strand structures including wire rope.

59—CHAIN, STAPLE, AND HORSESHOE MAKING, subclass 78+, for metal chains.

61—HYDRAULIC AND EARTH ENGINEERING, subclass 60+, for metallic sheet piling.

64—MACHINE ELEMENTS, SHAFTING AND FLEXIBLE SHAFT COUPLINGS, subclass 1+, for rotary shafting.

72—MASONRY AND CONCRETE STRUCTURES, subclass 109+, for masonry or concrete reinforcing elements.

75—METALLURGY, appropriate subclasses, but particularly subclasses 0.5 and 122+, for metal stock comprised of a single metal or metal alloy.

84—MUSIC, subclasses 199 and 297+, for strings for musical instruments.

87—TEXTILES, BRAIDING, NETTING, AND LACE MAKING, subclass 8+, for braided strands and fabrics.

109—SAFES, BANK PROTECTION AND RELATED DEVICES, subclass 85, for penetration resistant metallic wall structures.

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 127+, for metallic products having a non-metallic coating or base. For metal coatings on metal bases, see this class (29), subclasses 191+ and 194+.

138—PIPES AND TUBULAR CONDUITS, subclass 47+, for hollow stock material, such as pipes or tubes.

139—TEXTILES, WEAVING, subclass 425, for woven metallic textile structures.

148—METAL TREATMENT, subclass 31+, for metal stock which is the product of a metal treatment process classifiable in class 148 (e. g., heat treatment, carburization).

154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclasses 43 and 46+, for laminated and analogous stock materials.

174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclass 126+, for metal stock having structure peculiar to the conducting of electricity.

178—TELEGRAPHY, subclass 44, for wave guides.

188—BRAKES, subclass 250+, for brake shoes and materials.

189—METALLIC BUILDING STRUCTURES, appropriate subclasses, for metallic structural shapes for buildings.

191—ELECTRICITY—TRANSMISSION TO VEHICLES, subclass 33+, for trolley wire structures.

201—RESISTANCES AND RHEOSTATS, subclass 76, for electrical resistance elements distinguished only by their composition.

204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, appropriate subclasses, for metal stock and metallic products produced by a class 204 process except for stock or products containing two or more contiguous metallic layers or parts, for which see class 29, subclasses 191+ and 194+.

219—ELECTRIC HEATING, subclass 8, for welding rods.

238—RAILWAYS, SURFACE TRACK, subclass 122+, for railroad rails.

245—WIRE FABRICS AND STRUCTURE, appropriate subclasses.

252—COMPOSITIONS, subclass 181.1+, for "getter" compositions.

255—EARTH BORING, subclass 28, for drill or sucker rods.

273—AMUSEMENT DEVICES, GAMES, subclass 80, for golf club shafts.

274—SOUND RECORDING AND REPRODUCING, subclass 41.4, for metallic materials having magnetic sound recordings thereon.

288—JOINT PACKINGS, appropriate subclasses, particularly subclasses 9 to 15, and 25 to 32, for stock materials disclosed as peculiarly adapted for use as gaskets or other joint packings.

297—THERMOSTATS AND HUMIDOSTATS, subclass 11+, for devices and structures modified over and above the material or composition thereof, to produce motion as the result of changes of the thermal condition of the devices or structures.

308—MACHINE ELEMENTS—BEARINGS AND GUIDES, subclass 237+, for bearing bushings, subclass 242, for bearing materials and subclass 244 for bearing shims.

183. Materials or articles under subclass 180 which are distinguished by a significant configuration given to a surface, edge, or interface thereof.

(1) Note.—The following configurations have been considered not to be significant and are disregarded for purposes of assignment:

(*a*) A sheet, strip, or bar of uniform thickness comprising one or more coextensive, continuous layers, each layer being of uniform thickness.

(*b*) A wire or rod of uniform circular cross section either with or without one or more additional layers, each additional layer, in cross section, being a complete, continuous annulus of uniform thickness.

183.5. Shapes and structures under subclass 183 in which at least one of the features of shape or structure comprises either (1) a relationship between the physical size or quantity of material of two or more portions thereof (e. g., one layer is one-half the thickness of a second layer), or (2) a relationship between the physical size or quantity of material of one portion and a standard of length or quantity (e. g., one layer is .002 inch thick or is 1½ pounds per base box).

**Search this class, subclass—**

194+—for compound metal stock defined by the composition of the component parts thereof.

**Search Class—**

75—METALLURGY, subclass 122+, for alloys defined by the proportions of the constituent elements of the alloy.

184. Shapes or structures under subclass 183 comprising assemblages of two or more separate pieces of metal so arranged that the assembly may be subsequently compacted, as by rolling or forging, into either stock material or specific shapes.

(1) Note.—The separable pieces of metal may be attached to each other by a temporary holding means, such as wire bindings or rivets, but otherwise the pieces are not attached to each other, as by a pressure bond.

(2) Note.—The pile or fagot, after compression or consolidation into a unitary material or article is classified as either stock material in this class or the specific article in the appropriate article class.

185. Piles or fagots under subclass 184 in which the metal pieces are arranged in the form of a tube or annulus about a suitable core, which core is adapted to be removed after the compacting or consolidating of the pile or fagot.

186. Piles or fagots under subclass 184 comprising an outer sheath of metal which encloses therein loose metal pieces, such as metal scrap or metal powder.

187. Shapes or structures under subclass 183 comprising a mass of cast metal or metals having a shape or structure designed to facilitate or improve the further working of the mass.

187.5. Ingots, pigs, blooms, packs, slabs and billets under subclass 187 which comprise two or more metals or metal parts.

190. Shapes or structures under subclass 183 which are partially shaped articles of manufacture requiring further significant shaping to arrive at the form of the completed useful article.

(1) Note.—The following operations have been regarded as not involving a further significant shaping.

(*a*) Assembling or uniting the article with other parts.

(*b*) Distorting the article during an assembly operation to cause the article to conform to discrepancies in the size or shape of a coacting part.

(*c*) Bending or distorting those portions of the article which are to function as means for fastening the article to a coacting part, as, for example, the bending of ears or tabs.

(2) Note.—A claim, even though stated to be to a "blank", which is readable on the completed article is excluded from this subclass, for such a claim either is generic to both the blank and the article, and, therefore, is considered to be best classified with the completed article, or is to a subcombination which is considered best classifiable either in an appropriate subcombination class, or, if none, in the article class.

Search Class—
2—APPAREL, subclass 143, for blanks employed in making the collars of garments.
10—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING, subclass 62, for blanks employed in the making of spikes.
36—BOOTS, SHOES, AND LEGGINGS, subclass 47+, for blanks used in the production of shoe uppers.
59—CHAIN, STAPLE, AND HORSESHOE MAKING, subclasses 8, 12, and 35, for chain blanks; subclass 62, for horseshoe blanks; and subclass 77 for staple blanks.
76—METAL TOOLS AND IMPLEMENTS—MAKING, subclass 101+, for metal tool and implement blanks.
85—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS, subclass 34, for nut blanks.
101—PRINTING, subclass 401.1, for blanks for printing plates and printing members.
150—CLOTH, LEATHER, AND RUBBER RECEPTACLES, subclass 32, for blanks employed in making pocketbooks.
220—METALLIC RECEPTACLES, subclass 62, for can or other metallic receptacle blanks.
229—PAPER RECEPTACLES, subclass 16+, for blanks for use in forming a receptacle from a single folded sheet of metal or paper and subclass 75, for envelope blanks.
248—SUPPORTS, subclass 248, for blanks from which a sheet material supporting bracket can be formed.

191. Shapes or structures under subclass 183 which comprise at least two different contiguous metallic layers or portions (i. e., components).
(1) Note.—"Different" layers or portions are defined in subclass 194, (1) Note.
(2) Note.—"Contiguous" layers or portions are defined in subclass 194, (2) Note.
(3) Note.—"Metallic" is defined in subclass 180, (1) Note.
Search this class, subclass—
194+—for compound metal stock having no significant structure or configuration.

191.2. Compound shapes or structures under subclass 191 in which one portion or component comprises free metal containing agglomerated particles of indiscriminate shapes (e. g., scrap, cuttings or powder).
Search this class, subclass—
196—for shapes or structures comprising particles of a single metal or metal alloy.
Search Class—
75—METALLURGY, subclasses 22 and 44 for miscellaneous products produced by or used in powder metallurgical or iron briquetting processes.

191.4. Compound shapes or structures under subclass 191 in which one portion or component comprises either (1) a perforate body (e. g., expanded metal or wire cloth), or (2) a plurality of bodies whose disposition is such as to define a more or less regular or geometric pattern with interstices or spaces between adjacent bodies, and another portion or component which comprises a matrix for the first named portion or component.

191.6. Compound shapes or structures under subclass 191 in which the cross sections thereof are determined in both dimensions (i. e., width and thickness) but the third dimensions (i. e., length) are indeterminate.
Search this class, subclass—
183+—for stripe, rods, bars, or wires which are comprised of a single metal.
194+—for compound stripe, rods, bars, or wires in which all the layers or components are coextensive and each has a uniform thickness.

192. Shapes or structures under subclass 183 which comprise agglomerations of free-metal-containing particles of indiscriminate shapes (e. g., scrap, cuttings or powder).
(1) Note.—Agglomerations of metallic particles, each particle being comprised of two or more metallic layers or portions are in subclass 191.2, but agglomerations in which each particle is homogeneous throughout are in this subclass (192).
Search this class, subclass—
186—for particulate material not yet agglomerated.
191.2—for shapes and structures containing two or more metals, at least one of which is particulate, and see (1) Note above.
Search Class—
75—METALLURGY, subclasses 22 and 44, for miscellaneous products produced by or used in powder metallurgy or iron briquetting processes.

193. Shapes or structures under subclass 183 in which the cross sections thereof are determined in both dimensions (i. e., width and thickness) but the third dimensions (i. e., length) are indeterminate.
Search this class, subclass—
191.6—for strips, rods, bars, or wires comprised of a plurality of metallic layers or portions.

193.5. Strips, rods, bars, or wires under subclass 193 in which a shape or a structural feature is repeated an indeterminate number of times along the length thereof.

194. Metallic stock or material under subclass 180 which comprises at least two different, contiguous, metallic layers or portions (i. e., components). Neither a disclosure of, nor a product claim containing a limitation to, a particular process for producing or uniting two or more metallic layers or portions will exclude an invention from this subclass, except in the case of products produced by processes enumerated in (4) Note below.
(1) Note.—To be "different", two layers or portions must vary either qualitatively or quantitatively in their ultimate chemical analyses (e. g., iron and steel or high carbon steel and low carbon steel).
(2) Note.—"Contiguous" layers or portions are defined as any two layers or portions which are in physical contact with each other along a common interface or interface zone. Since autogenous bonding of two metallic parts is thought to involve inherently either a diffusion or alloying between constituents of the two parts, this diffusion or alloy layer, even though of appreciable thickness, does not prevent the undiffused or unalloyed regions from being "contiguous".
(3) Note.—"Metallic" is defined in subclass 180, (1) Note.
(4) Note.—Products of the following processes are excluded from this classification:
(a) Diffusion, in situ of either a non-metal or a metalloid into or from a surface of a single metal layer or portion (e. g., carburization, decarburization, nitriding, case hardening, etc.), for which products see class 148, METAL TREATMENT, subclass 31+.
(b) Alteration, in situ of the internal structure of a part of a single layer or portion (e. g., heat treatment or magnetization) for which products, see class 148, METAL TREATMENT, subclass 31+, class 175, ELECTRICITY—GENERAL APPLICATIONS, subclass 21+ and class 274, SOUND RECORDING AND REPRODUCING, subclass 41.4.
(5) Note.—In this and indented subclasses where a particular metal or group of metals is specified, it is not intended that the metal or group of metals should be construed as merely representative of any group of metals having some common chemical or physical property, but instead failure to include a metal by name operates to exclude that metal from the subclass.
(6) Note.—Placing of original and cross reference patents.
I. Alloy layers or portions, if claimed by name or composition, are classified as originals in the first subclass which provides for any metallic ingredient of the alloy identified in a claim irrespective of the proportion of that metallic ingredient present in the alloy and cross referenced in subsequent subclasses which provide for other metallic ingredients of the alloy. Example: Tungsten-steel clad with nickel-copper alloy; original to subclass 196.3, cross references to subclasses 196.6 and 198.
II. Three or more layers or portions, each being claimed by name or composition, are classified as originals in the first subclass which provides for any metal contained in any layer or portion, irrespective of the thickness or relative position of the layer or portion and irrespective of the percentage of the metal in the layer or portion and cross referenced to subsequent subclasses providing for other metallic layers or portions. Example: Iron clad with aluminum and then clad with magnesium upon the aluminum, original to subclass 196.2 and a cross reference to subclass 197.5.
III. Layers or portions which are claimed but are not designated in any claim by either name or composition, if identified in the specification, are classified and cross referenced as if the names or compositions were set out in one or more claims or, if not identified in the specification, are classified and cross referenced without regard to the undesignated layer or portion other than to identify material as a compound material. Example: Base metal clad with silver, if base metal is disclosed as iron, original to subclass 196 and cross referenced to subclass 199, if base metal is not identified, original to subclass 199.
IV. Layers or portions which are identified in the alternative, in the "Markush" manner or as members of a group of metals, are classified as originals on the basis of the metal which is



superior in the classification and cross referenced in accordance with the additional metals disclosed. Example: Iron or copper clad with lead, original to subclass 196.6 and cross referenced to subclass 199.
Search Class—
148—METAL TREATMENT, subclass 31+, for metal stock having a surface or layer produced by diffusion and see (4) Note above.
175—ELECTRICITY—GENERAL APPLICATIONS, subclass 21+, for metallic parts having portions thereof magnetized and see (4) Note above.
274—SOUND RECORDING AND REPRODUCING, subclass 41.4, for magnetic sound records in which a metallic member contains magnetized and unmagnetized portions, and see (4) Note above.

195. Compound metallic stock or articles under subclass 194 combined with a third layer or portion (component) which is a non-metal.
(1) Note.—To be classified in this subclass, the metal stock or articles must be classifiable in this class, subclass 194+, in the absence of the non-metal component.
Search Class—
49—GLASS, subclass 92.5, for glass to metal joints.
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, but particularly subclasses 71, 99 and 127+, for coated metal products in which there are no two metallic components bonded to each other.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for preformed metal layers bonded together with a non-metallic adhesive.
175—ELECTRICITY—GENERAL APPLICATIONS, subclass 41+, for electrostatic condensers, subclasses 21+, 336+, for laminated magnetic cores.
189—METALLIC BUILDING STRUCTURES, subclass 36.5, for bonded metal to non-metal joints and see the notes thereto.

195.5. Compound metallic stock or material under subclass 194 in which at least one claim identifies one or more layers or portions with their properties of varying shape or dimensions in response to variation in their heat content.
(1) Note.—Sealing-in wires for glass or other non-metallic envelopes are here classified, but for complete metal to non-metallic joints, see class 49, GLASS, subclass 92.5 and class 189, METALLIC BUILDING STRUCTURES, subclass 36.5.
(2) Note.—Bi-metallic stripe or materials claimed as thermostatic devices are here classified, but significant structure of the thermostatic device such as the mounting for an end of the strip or the shape given the strip to constitute the thermostatic device, are in class 297, THERMOSTATS AND HUMIDOSTATS, subclass 15+.
(3) Note.—Since inventions classified in this subclass usually disclose or claim particular metallic components, cross references should be placed in other appropriate subclasses indented under subclass 194.
Search Class—
49—GLASS, subclass 92.5 and see (1) Note above.
189—METALLIC BUILDING STRUCTURES, subclass 36.5 and see (1) Note above.
297—THERMOSTATS AND HUMIDOSTATS, subclass 15+ and see (2) Note above.

196. Compound metallic stock or material under subclass 194 in which at least one of the layers or portions contains metallic iron.
(1) Note.—Metallic iron includes elemental iron and iron alloyed with other metals and/or non-metals as defined in the definition of class 75, METALLURGY, subclass 122, particularly (1) Note.

196.1. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion also contains metallic iron.

196.2. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion, contains elemental aluminum and/or elemental magnesium.

196.3. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion, contains elemental copper.

196.4. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion, contains elemental tin.

196.5. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion, contains elemental zinc.

196.6. Compound metallic stock or material under subclass 196 in which a second layer or portion, contiguous with the first iron containing layer or portion, contains elemental nickel, cadmium, chromium, lead and/or cobalt.

197. Compound metallic stock or material under subclass 194 in which at least one of the layers or portions contains elemental aluminum and/or elemental magnesium.

197.5. Compound metallic stock or material under subclass 197 in which a second layer or portion, contiguous with the first aluminum and/or magnesium layer or portion, contains elemental aluminum and/or magnesium.

198. Compound metallic stock or material under subclass 194 in which at least one of the layers or portions contains elemental tungsten, molybdenum, manganese, vanadium, tantalum, and/or titanium.

199. Compound metallic stock or material under subclass 194 in which at least one of the layers or portions contains elemental copper, silver and/or gold.

**32, Dentistry** (Division 55)
in the main class definition, under (9) Note, change "180" to *180+*.

**34, Drying and Gas Or Vapor Contact with Solids** (Division 49)
In the main class definition, in (4) Note, add in numerical order:
236—FILLING AND CLOSING PORTABLE RECEPTACLES.

**41, Ornamentation** (Division 38)
in subclass 23, under "Search Classes", in the reference to class 29, change "181" to *191+*.

**49, Glass** (Division 5)
in the main class definition, under "(6) Search Classes", in the reference to class 29, Metal Working, cancel "blanks and";
in subclass 92.5, under "Search Class", insert:
29—METAL WORKING, subclass 195, for compound metal stock having an additional non-metallic component, and subclass 195.5 for compound metallic sealing-in wire per se.

**51, Abrading** (Division 58)
in subclass 309, under "Search Class", in the reference to class 29, Metal Working, change "180" to *4.5*.

**78, Metal Forging and Welding** (Division 13)
in subclass 0.5, under "Search Class", in the reference to class 153, Metal Bending, change "10" to *10.5*.

**89, Ordnance** (Division 22)
establish the following subclass definition:
1.7. Devices under the class definition for (1) holding a rocket for launching, the rocket gases not being confined, or (2) the non-recoil gun type for holding an explosive charge (which may be in a projectile), the expanding gases escaping in opposite directions and propelling a projectile in at least one direction.
(1) Note.—Under part (2) of the above definition, the gun may be organized to fire two projectiles in opposite directions to balance out recoil. The mounts for non-recoil guns are here.
Search this class, subclass—
37+—for mounts in general.
Search Class—
102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 34.2, for sticks and other supports for pyrotechnic rockets that are usable but once.
in subclass 37, cancel the note and substitute:
Search this class, subclass—
1.7—for rocket launching and non-recoil gun mounts.
Search Class—
124—MECHANICAL GUNS AND PROJECTORS, subclass 29 for simulated mounted ordnance which projects a missile by spring operated mechanical means.

**99, Foods and Beverages** (Divisions 1, 63)
cancel the definitions and notes of subclasses 264, 265, 266, 267, which were abolished in Order No. 3,875.

**102, Ammunition and Explosive Devices** (Division 30)
in subclass 34.2, add:
Search Class—
89—ORDNANCE, subclass 1.7, for rocket launching supports usable repeatedly for launching warfare or pyrotechnic rockets.

**117, Coating; Processes and Miscellaneous Products** (Division 38)

in the main class definition, "II. Coated Articles Classified Elsewhere", under "(2) Search Classes", cancel the reference to class 29, Metal Working, and substitute:

29—METAL WORKING, subclasses 183.5, 187.5, 191+, and 194+, for metal stock or miscellaneous metallic products having physically joined thereto a metallic layer or coating irrespective of the particular process disclosed or claimed for effecting the physical juncture.;

in subclass 22, under (3) Note, change "181" to *191.2*;

in subclass 130, add:

Search Class—

29—METAL WORKING, subclass 187.5, 191+ and 194+, for compound metal stock or miscellaneous composite metallic products, irrespective of the particular process disclosed or claimed for forming or associating the component metallic parts.

**119, Animal Husbandry** (Division 2)

in subclass 53.5, in the note, add in numerical order: *62.*

**128, Surgery** (Division 55)

in subclass 252, add:

Search this class, subclass—

250+—for teething devices in the form of nipples.

in subclass 360, add:

Search this class, subclass—

253—for medicators of the nipple type.

**134, Cleaning and Liquid Contact with Solids** (Division 27)

in the main class definition, under (5) Search Class, add in numerical order:

49—GLASS, subclasses 45 and 89 for apparatus and processes for annealing glass including the application of fluids thereto.;

in subclass 11, under "Search Class", add:

202—DISTILLATION, subclass 170, for apparatus suitable for carrying out this process.;

in subclass 117, cancel "fluid treating-operation" and substitute: *normal cycle of operation of the apparatus*;

in subclass 132, under "Search Class" insert:

51—ABRADING, subclass 163+ and see the reference to class 51 in (5) Note of the main class definition of this class (134).

in subclass 162, cancel "pivoted";

change the definition of subclass 175 to read:

175. Apparatus under subclass 174 in which the nozzle or conduit is attached to or operatively interconnected with a work treating chamber closure.;

in subclass 177, change the definition to read:

177. Apparatus under subclass 172 in which the nozzle or conduit is attached to or operatively interconnected with a work treating chamber closure.

**138, Pipes and Tubular Conduits** (Division 52)

in the main class definition, cancel (20) Note and substitute:

(20) Note.—For piles and fagots from which tubes are to be manufactured by an application of pressure or heat and pressure, see class 29, METAL WORKING, subclass 185.

**146, Vegetable and Meat Cutters and Comminutors** (Division 25)

in the main class definition, under "(1) Foods and Beverages", subsection (c), cancel the last sentence, and substitute:

Class 134, CLEANING AND LIQUID CONTACT WITH SOLIDS, or other appropriate class in accordance with the notes to the main class definition of class 134, has cleaning apparatus per se.;

and in subclasses 49 and 50, cancel the notes.

**148, Metal Treatment** (Division 3)

in subclass 16, cancel the note;

in subclass 31, cancel the definition and notes and substitute:

31. Metallic materials which are (1) products of processes of metal treatment classifiable in this class, or (2) products distinguished only by the internal structure or characteristics of the metals, metallic compositions or metal alloys comprising said materials.

Search Class—

29—METAL WORKING, subclass 180+, for metallic stock and for the line as to compound metal stock, see subclass 194, (4) Note.

75—METALLURGY, subclass 122+, for metallic alloys and for metal stock distinguished only by the composition of an alloy.

**153, Metal Bending** (Division 14)

establish the following subclass definition:

10.5. Machines and processes within the class definition for crushing hollow metal bodies such as tin cans, automobile bodies, etc., usually for reducing their bulk for transportation or storage, or for preparing them for further salvage operations, or for preventing their reuse.

(1) Note.—In the "Alphabetical Index to Classification of Patents" (which accompanies the "Manual of Classification of Patents") the titles "Crusher" and "Scrap metal" may contain references, in addition to those noted below under "Search Class", of interest, in particular cases, in connection with the subject matter of this subclass.

Search Class—

29—METAL WORKING, subclass 4.5, for machines for reducing metal to shreds by cutting operations; subclass 66, for machines for breaking metal articles, such as pigs, old castings, etc.

75—METAL FORGING AND WELDING, subclass 0.5, for metal forging and welding apparatus peculiar to the pressing of particulate metal (e. g., cans, scrap, cuttings, or powder), or compositions containing particulate metal as the sole bonding agent, into an agglomerate mass, article, or shape; and see the notes to this subclass for the corresponding processes.

80—METAL ROLLING, subclass 17, for apparatus for rolling old or worn metal shapes into merchantable shapes, and subclass 65, for corresponding methods.

100—PRESSES, for baling, bundling, and other presses not otherwise classified.

164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 10.6, for machines and processes for mechanically treating and cutting metal scrap, by operations peculiar to that class.

222—DISPENSING, subclass 87, for dispensers having means for mutilating by cutting, crushing, or otherwise destroying the container.

241—SOLID MATERIAL COMMINUTION OR DISINTEGRATION, appropriate subclasses, for processes and apparatus for reducing solid material to smaller particles without imparting a shape thereto; particularly subclass 99, for bottle breakers.

**164, Cutting and Punching Sheets and Bars** (Division 57)

in subclass 10.6, under "Search Classes", add in numerical order:

153—METAL BENDING, subclass 10.5, for machines and processes for crushing hollow metal bodies such as tin cans, automobile bodies, etc.

**189, Metallic Building Structures** (Division 33)

in subclass 36.5, under "Search Class", in the reference to class 29, Metal Working, after "180+", add: *but particularly subclass 195.*

**204, Chemistry, Electrical and Wave Energy** (Division 56)

in the main class definition, cancel paragraph (B) and substitute:

(B) Products in which the processes under (A) appear as necessary limitations except:

(1) Products which comprise two or more contiguous metallic layers for which see class 29, METAL WORKING, subclass 180+ or the particular product class.

**210, Liquid Separation or Purification** (Division 49)

in subclass 168, cancel "133" and substitute *128.4*.

**220, Metallic Receptacles** (Division 40)

in subclass 51, cancel the notes and substitute:

Search Class—

30—CUTLERY, subclass 3+, for both hand manipulable and machine puncturing devices where the puncturing parts do not serve as closures.

164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 119+, for punching implements of general application.

222—DISPENSING, subclass 80+, for dispensing devices combined with cutters and/or punches.

**222, Dispensing** (Division 35)

in subclass 80, under "Search Class", add in numerical order:

220—METALLIC RECEPTACLES, subclass 51, where the punch also serves as a closure for the puncture, and there are no dispensing features (e. g., nozzles or pouring lips).

establish the following subclass definition:

83.5. Dispensers under subclass 83 having a sleeve or rest into or on which the receptacle to be cut is placed.

Search this class, subclass—

86—for similar devices with non-movable cutters for cutting plural holes.

88—for sleeves and/or rests combined with cutters.

in subclass 86, under "Search This Class, Subclass", add:

83.5—for similar devices with one or more relatively movable cutters.

in subclass 87, add:

Search Class—

153—METAL BENDING, subclass 10.5, for machines and processes for crushing hollow metal bodies such as tin cans, etc.

in subclass 88, under "Search This Class, Subclass", add:

83.5—for similar devices with one or more relatively movable cutters.



**226, Filling and Closing Portable Receptacles** (Division 35)

in subclass 68, under "Search Class", add in numerical order:

24—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, particularly subclasses 19 and 90, for drying of solids combined with filling and/or closing of receptacles.

**228, Ladders** (Division 4)

in subclass 17, cancel the notes and add:

Search Class—

248—SUPPORTS, subclasses 210, 211 and 238 for ladder brackets.

304—SCAFFOLDS, subclass 31, for detachable platforms.

**235, Registers** (Divisions 23, 41)

cancel the definition of subclass 129 which was abolished in Order No. 3,991.

**238, Railways, Surface Track** (Division 34)

establish the following subclass definition:

161.5. Rail joints under subclass 151 which include means associated therewith for confining or receiving a liquid, a liquid bearing substance, or any film forming material which serves as a lubricant.

Search this class, subclass—

163—for rail joints that contain solid material which was positioned within the joint while in a molten or plastic state.

Search Class—

173—ELECTRICITY—CONNECTORS, subclass 259, for electrical battery terminal connectors which have means to maintain a body of liquid adjacent the conductor, usually to inhibit chemical attack.

184—LUBRICATION, subclass 3, for apparatus for applying lubricant to a rail, subclass 5, for slide bearings having lubricating means incorporated therein, and subclass 100, for slide bearing lubricators.

308—MACHINE ELEMENTS—BEARINGS AND GUIDES, subclass 5, for slide bearings having lubricating means incorporated therein.

**241, Solid Material Comminution or Disintegration** (Division 25)

in subclass 99, under "Search Class", in the reference to class 153,

Metal Bending, change "10" to *10.5*.

in subclass 168, under "Search Class", in the reference to class 65, Kitchen and Table Articles, cancel "identical devices" and substitute:

condiment holders provided with agitators or outlet clearers. Members mounted to act *within* the mass of material and which do not cooperate with a wall of the receptacle or other surface to comminute were considered to be agitators for class 65 even though disclosed as functioning to disintegrate the material.

**256, Fences** (Division 1)

in subclass 46, under "(2) Search Classes", in the reference to class 29, Metal Working, cancel "180" and substitute: *191.6 and 193, for metal stock in the form of strips, rods, bars, and wires.*

**274, Sound Recording and Reproducing** (Division 5)

in subclass 41.4, (0.5) Note, cancel the reference to class 29, Metal Working, and substitute:

29—METAL WORKING, subclass 155.41+ and the classes specified in the notes to the definitions of these subclasses, for methods of making filaments, ribbons, strands, and wire and subclass 180+, for metal stock including metal strands.

in the reference to class 117, Coating; Processes and Miscellaneous Products, cancel "subclasses 130+, for metal coated metal bases";

in the reference to class 148, Metal Treatment, cancel "defined only by their physical or chemical properties" and substitute: *products of a class 148 metal treating process*;

and cancel the reference to class 204, Chemistry, Electrical and Wave Energy.

**297, Thermostats and Humidostats** (Division 30)

in subclass 15, add:

Search Class—

29—METAL WORKING, subclasses 191.6 and 195.5, for compound metal stock having no significant thermostatic structure. The mounting means for an end of a strip or the shape given the length of the strip to constitute the thermostat are considered to be significant thermostatic structures but the composition or cross-sectional structure of a strip is not considered to be a significant thermostatic structure.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

*(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)*

The patents which are owned by Radio Corporation of America have been entered, in accordance with the rules of the United States Patent Office applicable to such entry which are in effect on the date hereof, on the Register of Patents Available for Licensing.

These patents are available for licensing for the following apparatus or purposes, among others, (a) radio broadcast receiving sets (including televisions), (b) electrical phonographs, (c) radio broadcast transmitting apparatus and certain other transmitting and receiving apparatus for commercial use, (d) radio tubes of the type used in radio receiving apparatus, (e) radio tubes of the type used in radio transmitting apparatus, and (f) sound-motion picture apparatus, including 16 mm. recording and reproducing apparatus. Licenses will be granted under the terms and conditions of standard license agreements of Radio Corporation of America presently in effect, copies of which may be obtained from Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N. Y., or under the terms and conditions of revisions of such standard license agreements. Where no standard license agreement is in effect, licenses will be granted on reasonable terms. In addition to the patents owned by Radio Corporation of America, such standard license agreements grant licenses under all other patents under which Radio Corporation of America has the right to grant licenses for the apparatus therein licensed, under the conditions, to the extent and for the term in respect of which Radio Corporation of America can grant such licenses. Included in this latter category are patents of General Electric Company, Westinghouse Electric Corporation, American Telephone and Telegraph Company and N. V. Philips' Gloeilampenfabrieken in the field of radio broadcast receiving sets, and patents of one or more of such companies in other fields.

Des. 123,647. DESIGN FOR CHESS PIECES. Patented Nov. 19, 1940. Ornamental design for chess pieces. (Owner) Shepard J. Goldin, 315 West Fourth St., New York 14, N. Y. Groups 25—99; 39—41—49; 40. Reg. No. 713.

Pat. 2,167,109. ILLUMINATED WATCH CLIP AND MIRROR. Patented July 25, 1939. Attachment for watches in form of a flashlight mount for casting light on face of watch, having mirror over center of crystal. Shank portion of frame intermediate light and watch is bent throwing light on dial. Shank also provides magnifying glass, name plate, and provision for attaching to watch. (Owner) Shepard J. Goldin, 315 West Fourth St., New York 14, N. Y. Groups 32—39; 34—61—81; 39—81. Reg. No. 714.

Des. 120,978. DESIGN FOR A SHAVING CUP. Patented June 11, 1940. Mug having ornamental design, for furnishing continuous warm lather for shaving. (Owner) Mark E. Sayre, Westlake, Oreg. Groups 32—39—63—65—69; 40. Reg. No. 715.

Pat. 2,275,901. APPARATUS FOR PREPARING FOODS. Patented Mar. 10, 1942. Electrical appliance comprising a base having a hot plate at one end and a removable mixer mounted on the other end. Food or other products placed in container over hot plate may be stirred and cooked by turning a single switch. With slight modification device will function either as hot plate or mixing and whipping device. (Owner) Willie Georgiana Harwood, Route 1, Box 25E, Dickinson, Tex. Group 36—21. Reg. No. 716.

Pat. 2,350,998. PIN SPREADER. Patented June 13, 1944. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Machine, preferably operated by compressed air, provides uniform spreading of the ends of cotter pins. Plurality of articles to be fitted with cotter pins may be indexed successively to a pin setting station in machine while other articles are prepared for setting of the pins. (Owner) Frederick H. Beach, % Naval Ordnance Laboratory, Navy Yard, Washington, D. C. Groups 33—73; 35—41—42—43—69. Reg. No. 717.

Pat. 2,358,782. ELECTROMAGNETIC CHECK GAUGE. Patented Sept. 26, 1944. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Comprises electromagnets, a support for assembly adjacent pole of electromagnets, so plunger is attracted by magnet against its spring bias; support with an aperture therein for alignment with passage through assembly and means located beneath aperture to illuminate interior of cylinder. Beam of light passes through passage and aperture when in alignment. (Owner) Frederick H. Beach, % Naval Ordnance Laboratory, Navy Yard, Washington, D. C. Groups 33—73; 35—42—59; 36—41. Reg. No. 718.

Pat. 2,151,519. DISTRIBUTOR FOR INTERNAL COMBUSTION ENGINES. Patented Mar. 21, 1939. Conventional distributor with solid disk-like cover. By loosening upper hooks, removing bridge and disk, then replacing bridge and hooks, pin still makes contact with rotor spring, thus allowing distributor to continue to operate while permitting view of parts. (Owner) Joseph G. Kubelus, 20 East 43rd St., Bayonne, N. J. Groups 33—73; 35—19—59; 36—41—38—31. Reg. No. 719.

Pat. 2,375,555. CAMERA. Patented May 8, 1945. Knife attachment within camera permits single exposures to be cut and removed from roll for developing without disturbing or exposing remainder of film giving camera advantage common to plate or film pack loaded cameras. Each section is cut off and automatically deposited in a light-proof, removable container. (Owners) Jasper S. Howard and Thomas D. Bishop. Address all correspondence to Jasper S. Howard, 113 Sixth St., Broderick, Yolo County, Calif. Group 39—12. Reg. No. 720.

Pat. 2,351,455. THERMOMETER READER. Patented June 13, 1944. Attachment, having a vernier scale, for thermometer consisting of auxiliary panel positioned alongside thermometer panel and a magnifying glass mounted above the scales for reading fractional parts of a degree. (Owner) Dino J. Pratesi, 30 Ashley Blvd., New Bedford, Mass. Groups 32—29—39; 33—66; 39—11. Reg. No. 721.

Pat. 2,043,643. PAINT BRUSH KEEPER. Patented June 9, 1936. Receptacle has plurality of horizontal cross rods with pegs for suspending brushes in preserving fluid. Partitions between cross rods form individual compartments for brushes. Rollers operable within receptacle are adapted to compress paint brush between them while being withdrawn from container. (Owner) Yenne & North Mfg. Co., P. O. Box 319, Wooster, Ohio. Groups 25—99; 33—59—73. Reg. No. 722.





Pat. 1,882,432. WALL CONSTRUCTION. Patented Oct. 11, 1932. Blocks are securely held in position by longitudinal strips of iron connected by U-shaped clips and positioned in grooves around blocks, partly in one block and partly in block above and in grooves at ends of block. Usual mortar joints are provided. (Owner) Joseph L. Lemerond, 115 N. Broadway, Green Bay, Wis. Groups 24—31; 32—71; 33—81; 34—95. Reg. No. 723.

Pat. 2,233,942. FOUNTAIN PEN FILLING ADAPTER. Patented Mar. 4, 1941. Removable rubber stopper with passage for insertion of pen point only, secured to bottle by flanged cap threaded internally, having air passages for retaining constant air pressure within bottle when filling pen. A concentrically arranged well modified at lower end forms tube which contacts ink. (Owner) Paul R. Frey, 1202 La Porte Ave., Fort Collins, Colo. Groups 28—99; 30—52; 32—29; 39—51; 40. Reg. No. 724.

Pat. 2,284,442. POCKET ASH RECEPTACLE. Patented Sept. 11, 1945. Box having hinged cover for carrying in pocket or purse. Top wall of body portion has opening for ashes, covered by circular cap frictionally held in position by flange and surrounded by a channel, preventing ashes from falling out. (Co-owner) Herbert A. Christian, 12 Cedar St., Vallejo, Calif. Groups 32—29—39; 33—73; 39—71—81; 40. Reg. No. 725.

Pat. 1,978,272. BOTTLE CAP AND OPENER. Patented Oct. 23, 1934. Consists of "crown" type cap with flange for receiving ribbed arm constituting an opener for removal of cap. Outer portion of arm has curved recess for easy removal of cap when arm is swung from perpendicular to horizontal position and given an upward pull. (Owner) Lloyd C. Lawrence, 535 Main St., East Hartford, Conn. Groups 30—32; 33—59—73; 40. Reg. No. 726.

Pat. 2,082,272. EXERCISING APPARATUS. Patented June 1, 1937. Punching bag threadedly secured to metallic cap engaging a sleeve which is encircled by an open wound helical spring, lower end coiled around reduced portion of post. (Owner) Henry Zinnow, 5608 Palisade Ave., West New York, N. J. Groups 39—41—49. Reg. No. 727.

Pat. 2,327,671. WALKER MECHANISM FOR INVALIDS. Patented Aug. 24, 1943. Apparatus to provide exercise and control the weight exerted on the legs of invalids during the healing stage in cases of paralysis or injury. Consists of an adjustable frame mounted on wheels, a hand bar and a support fitted under the armpits. A pair of trunks is suspended by means of a springed harness and fitted to the invalid. A scale determines the load carried. (Owner) Joseph A. Rupprecht, Box 862, Port Angeles, Wash. Groups 32—49—93; 39—16. Reg. No. 728.

Pat. 2,315,608. NESTED SERVING DEVICE. Patented Apr. 6, 1943. Forms a single compact tray supported on a stand, but when separated several individual tray units are obtained. Removable interchangeable trays are mounted upon hollow standards positioned one within the other and attached to circular bases. Device is useful for serving a light "snack" or buffet supper. (Owner) Alan R. Fergusson, 36 Pine Brook Drive, Larchmont, N. Y. Groups 25—14—22; 33—73; 34—72; 39—81. Reg. No. 729.

Pat. 2,332,571. STAMP HOLDER. Patented Oct. 26, 1943. Foldable sections hold stamps in billfold or pocket. Tabs at one end fold upon strip, forming pocket for receiving stamps and a second pair of tabs adjacent first pair fold in interlocking engagement over folded strip. (Owner) Alfred Gunning, 3001 Vintage Ave., Houston 10, Tex. Groups 26—22—33—91—99; 40. Reg. No. 730.

Pat. 2,107,255. METHOD OF TREATING CARBONATES. Patented Feb. 1, 1938. Vertical oven having an enclosed roasting chamber in which the material does not come into direct contact with products of combustion. Resulting gases are drawn off due to their specific gravities. Burners positioned about one-third the way up stack provide heating zones having varying temperatures. Material is dried at top then gradually lowered as a unit through the different zones. Reduced material is drawn off at the bottom by a rotating valve and deposited on a conveyor or dump cart. Condition of material may be viewed at different stages through peep holes. (Owner) Parker McComb, Box 1482, Monroe, La. Groups 33—11; 34—1. Reg. No. 731.

Pat. 2,383,946. METHOD AND APPARATUS FOR FLUID CONTACT. Patented Sept. 4, 1945. Mixing method to produce sulfonations, chlorinations, nitrations, etc., which consists of immersing a flexible, chemically resistant tubing into one of the liquids to be mixed. At the immersed end the tubing is porous, or braided, the other end being coupled to a gas or liquid supply which exerts pressure so as to produce a thrashing movement. Provides an economical method of mixing and in some cases eliminates the use of agitating gear. (Owner) Chester Tietig, 435 Reading Road, Cincinnati 2, Ohio. Groups 30—31; 35—69; 39—81. Reg. No. 732.

Pat. 2,384,334. PNEUMATIC PICKUP DEVICE. Patented Sept. 4, 1945. Small, simple article, manipulated by hand to pick up, hold, and release at will small or thin objects inconvenient to handle. Permits placing such articles in fixed allocations, for example, when mounting photos or stamps in an album. Will not scratch or mar articles. (Owner) Frank G. Olson. Address correspondence to David M. Heller, 134 South La Salle St., Chicago, Ill. Groups 28—83; 30—31; 33—52; 40. Reg. No. 733.

Pat. 2,365,022. CLEANER FOR SOLDERING IRONS. Patented Dec. 12, 1944. Consists of a perforated container filled with a cartridge of fine abrasive or metallic substance, steel wool, or powdered emery, so positioned that the tip of a soldering iron can be readily and instantly inserted and cleaned of the impure encrustations formed thereon during soldering operations. Accidental conflagrations are prevented in that the use of wiping rags, or cloths, or cotton waste, is eliminated. (Owner) Antoinette Sturtevant. Address correspondence to David M. Heller, 134 South La Salle St., Chicago, Ill. Groups 33—52; 35—42; 39—99. Reg. No. 734.

Pat. 2,252,639. PAINTER'S POT HANGER. Patented Aug. 12, 1941. Device includes a hook portion, which is hung over rung of a ladder, swivelly connected to an L-shaped member which in turn is swivelly connected to a U-shaped member attached to plates fastened to top of paint pot. Pot may be supported on ladder at selected points out of the way while painting. Ladder may be moved without disturbing pot. Device is made substantially of stiff wire. (Owner) Charles T. Miller, 469 South Paramus Rd., Paramus, N. J. Groups 28—11; 33—49—73. Reg. No. 735.

Pat. 1,951,776. SCALP TREATING APPARATUS. Patented Mar. 20, 1934. Consists of an electric motor in combination with a vibratory head. Head is hollow and fitted with hollow tubular rubber nipples. Has means to supply mild heat and oil or other medicaments so that scalp may be massaged and treated at the same time. (Owner) Donald C. Shelton, 4610 Norwood, San Diego 5, Calif. Groups 36—21—92. Reg. No. 736.

Pat. 1,973,870. SPARK-PLUG TESTER. Patented Sept. 18, 1934. Determines the efficiency of spark plugs, magnetos and other high tension devices of an automobile while in operation. Within a casing are two leads, a low-

capacity, high voltage fixed condenser, a small neon tube and a series of fixed high-capacity, low voltage condensers. By moving a pointer over a chart, neon tube flashes until correct reading is obtained. (Owner) Harold Herbert, 5777 La Gorce Drive, Miami Beach, Fla. Groups 36—41; 38—31. Reg. No. 737.

Pat. 2,320,845. BEDPAN. Patented June 1, 1943. Bedpan has removable inner pan. To insure sanitation, inner pan has a waterproof inner lining that is easily removable and disposable. (Owner) Marion A. Bolton, General Delivery, Hancock, Mich. Groups 26—32; 33—71; 34—41—99. Reg. No. 738.

Pat. 2,253,174. MEASURING INSTRUMENT. Patented Aug. 19, 1941. For measuring variations in the position of a portion of an electrical device or the size of a reflecting object by means of a beam of light projected on a movable mirror and reflected on a calibrated mirror. (Owner) Ulrich R. Furst, 520 Cornelia Ave., Chicago 13, Ill. Groups 32—29—39. Reg. No. 739.

Pat. 2,372,991. APPARATUS FOR HEATING FLUIDS. Patented Apr. 3, 1945. Directional burners supply heat to a plurality of separate tubes inside a cylindrical casing lined with insulation and firebrick. A conical baffle diverts the rising combustion gases to render the heat more effective. Above this arrangement are two manifolds to which are connected inlet pipes; a single manifold positioned below has inlet and discharge connections. In the conversion of light hydrocarbons the heating, cooling, and mixing of two separate streams may be controlled individually to produce reactions, solutions, etc., of desired character. (Owner) Basic Chemical Corp., 4600 Chippewa St., St. Louis 16, Mo. Groups 32—59; 33—12—73; 36—19. Reg. No. 740.

Pat. 2,373,032. ELECTROLYTIC DECOMPOSING GAS GENERATOR. Patented Apr. 3, 1945. Generator to extract gases from water or other liquids to serve as fuel for an internal combustion engine. Consists of a hollow cylindrical tank with corrugated sides divided into three compartments, the intermediate compartment preventing a mixture of the hydrogen and oxygen obtained by the electrolysis of water. The gases are piped off into separate storage chambers. The whole is intended for ready connection to the engine of an automobile, boat, etc. Inventor claims apparatus takes relatively little room. (Owner) Basic Chemical Corp., 4600 Chippewa St., St. Louis 16, Mo. Groups 32—29; 33—72—73; 36—12—41. Reg. No. 741.

Pat. 2,234,559. BUILDING CONSTRUCTION. Patented Mar. 11, 1941. Hollow thin metal sections (which may be filled with insulating material, if desired) are superimposed one on the other by a tongue and groove arrangement; joined by a threaded sectionalized tubing (within the section) which acts as a frame. This method enables the frame to bear the weight of each tier, relieving the sections of strain, etc. Sealed against weather, permits prefabrication, etc. Modifications shown. (Owner) Joseph D. Jacobs, 1127 Guildhall Bldg., Cleveland 15, Ohio. Groups 32—73; 33—73—81—95. Reg. No. 742.

Pat. 2,381,874. KNOCKDOWN CONTAINER. Patented Aug. 14, 1945. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Box composed of interchangeable sections, preferably of plywood, having interlocking metal connections at the corners which mesh in substantially hinge-like fashion to receive cotter pins when assembled. Corners of the box sections are cut so that connections will not contact floor or other surface with which box comes in contact. When assembled three interlocking connections appear adjacent the corners. Sections can be shipped or stored in flat stacked condition. Special sealing means are formed integral with each section. (Owner) Glynn A. Britton, 1355 Ives Place S. E., Washington, D. C. Groups 24—32; 25—54; 26—61—63; 33—73. Reg. No. 743.

Pat. 2,348,380. PUNCH. Patented May 9, 1944. Enlarged end portion rotatably and slidably fits in guideway of block. Ball latch is forced outwardly by beveled surface of punch against action of spring and enters longitudinal portion of groove, holding punch against axial rotation. Reverse operation overcomes thrust of spring and punch is detached from retainer. (Owner) Frank B. Graham, 418-420 W. Sheridan Rd., Lansing 6, Mich. Groups 33—52—73; 35—42—43. Reg. No. 744.

Pat. 2,331,824. PROCESS FOR COATING PIPE. Patented Oct. 12, 1943. After water has been withdrawn and piping system thoroughly dried, "Bakelite" varnish or the like is forced into the system and excess withdrawn. When dried, varnish coating seals corroded portions of piping and does not affect taste of drinking water. May also be used as a protective coating for interior of brass piping prior to installation. For use in localities where water contains carbonic acid, etc. (Owner) William D. Buckingham, Box 537, Southampton, N. Y. Groups 28—11—83; 33—61; 34—31. Reg. No. 745.

Pat. 2,194,126. BUBBLE CAP FOR REFRACTIONATING TOWERS. Patented Mar. 19, 1940. Integrally formed, a dome covers a truncated conical tube or "candle" with radially disposed fins and a serrated top edge. A number of these are arranged to cover the perforations of the horizontal partitions of a refractionating tower used in the refining of petroleum. Deposits of sediment have little effect on the flow of fluid. Easily installed replaceable after cleaning. (Owner) Albert L. Schwandt, 4111 Homerlee Ave., East Chicago, Ind. Groups 33—22; 34—91. Reg. No. 746.

Pat. 2,376,266. MECHANICAL ROSARY. Patented May 15, 1945. Provides a cross-shaped casing with depressible buttons slidably fitted into holes. Buttons remain depressed until released by slide trigger. Used to tally prayers in religious devotions. (Owner) Edward H. Moore, 1851 Jerome Ave., SW., Grand Rapids 7, Mich. Groups 39—81; 40. Reg. No. 747.

Pat. 2,136,804. TRAFFIC SIGNALING DEVICE. Patented Nov. 15, 1938. Signal does not require the use of the conventional bank of three colored lights. Obviates the requirement of a timing mechanism. Consists of a four-sided casing, a source of light, a movable cylindrical screen divided into the different color transparencies and a means to move the screen at a constant rate of speed. (Owner) Henry Paul, 3450 Chestnut St., Philadelphia 4, Pa. Group 36—62. Reg. No. 748.

Pat. 2,377,540. TONSILLOTOME. Patented June 5, 1945. An instrument equipped with a combined cutting and cautery bar for removing tonsils. Current cannot be delivered to the parts for galvanic cauterization until bar is in closed position. Avoids the overflux of blood; operated mainly by index finger. (Owner) Alvaro da Silva Costa. Address correspondence to Chauncey P. Carter, 3111 Foxhall Rd., Washington 16, D. C. Group 39—15. Reg. No. 749.

**Notice**

**International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.**

**Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.**

# TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 18, 1945

[VOL. 581. No. 3]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 472,781. KRAUS CERAMIC PRODUCTS CO. INC., Sparks, Md. Filed July 31, 1944.

**HALLOID**

FOR MINERAL COLLOIDAL SLURRY SERVING AS A BOND FOR CERAMICS, AND A BASE FOR COATINGS, ADHESIVES, AND RUBBER.
Claims use since Sept. 25, 1934.

Ser. No. 475,509. C. H. OREA & PROCESSING LIMITED, London, England. Filed Oct. 19, 1944.

**CELLICOTE**

FOR LIGNOCELLULOSIC MATERIAL PRODUCED BY WOOD HYDROLISIS IN POWDERED FORM, USED AS FILTER IN PLASTIC INDUSTRY AND IN THE MANUFACTURE OF FLUX COATINGS FOR WELDING ELECTRODES.
Claims use since May 1944.

Ser. No. 477,079. S. W. SIMON LEATHER CO. INC., New York, N. Y., assignor to Sigma Leather Manufacturing Corporation, New York, N. Y. Filed Nov. 30, 1944.

**SIGMA**

FOR RAW AND PARTIALLY FINISHED HIDES AND SKINS AND TANNED LEATHERS.
Claims use since Dec. 15, 1943.

Ser. No. 486,540. OIL AND GAS RESEARCH, INC., Wilmington, Del. Filed July 31, 1945.

**MICROCARB**

FOR CARBON BLACK SOLD GENERALLY IN THE RUBBER, PAINT, AND PHARMACEUTICAL TRADES.
Claims use since July 3, 1945.

Ser. No. 486,541. OIL AND GAS RESEARCH, INC., Wilmington, Del. Filed July 31, 1945.

**PYROCARB**

FOR CARBON BLACK SOLD GENERALLY IN THE RUBBER, PAINT, AND PHARMACEUTICAL TRADES.
Claims use since July 3, 1945.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 487,082. IDA JOLLES, doing business as J. Jolles Studios, New York, N. Y. Filed Aug. 13, 1945.

**PLASTI-QUILT**

The word "Quilt" is disclaimed apart from the mark as shown.
FOR PLASTIC HANDBAGS.
Claims use since Aug. 1, 1944.

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 482,385. THE MUNISING PAPER COMPANY, Munising, Mich., and Chicago, Ill. Filed Apr. 20, 1945.

**STER•I•CLENS**

The word "Clens" is disclaimed apart from the mark as shown.
FOR PAPER SHEETS CONTAINING A DETERGENT.
Claims use since Mar. 8, 1945.

Ser. No. 482,386. THE MUNISING PAPER COMPANY, Munising, Mich., and Chicago, Ill. Filed Apr. 20, 1945.

CLEANSES ANTISEPTICALLY
SAN-I-TARY
STER-I-CLENS
KEEPS THE SKIN SOFT

The words "Clens," "Sanitary," "Cleanses Antiseptically," and "Keeps The Skin Soft," are disclaimed apart from the mark as shown in the drawing.

FOR PAPER SHEETS CONTAINING A DETERGENT.
Claims use since Mar. 8, 1945.

---

Ser. No. 484,914. THE SOLVAY PROCESS COMPANY, New York, N. Y. Filed June 22, 1945.

**NYTRON**

FOR SYNTHETIC ORGANIC DETERGENTS—NAMELY, COMPLEX ORGANIC SODIUM SULFONATES, FOR USE IN CLEANING FIBRES AND FABRICS, FOR USE GENERALLY AS CLEANERS AND FOR INCORPORATION IN SOAP PREPARATIONS.
Claims use since Apr. 3, 1945.

---

Ser. No. 485,868. JOHN-FREDERICS, INC., New York, N. Y. Filed July 16, 1945.

**UPPER LEVEL**

FOR BATH AND FACIAL SOAPS.
Claims use since May 10, 1943.

---

## CLASS 6

## CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 477,007. ALFRED DUNHILL LIMITED, London, England. Filed Nov. 29, 1944.

Alfred Dunhill

The trade-mark consists of the name Alfred Dunhill written in the facsimile signature of Alfred Dunhill, founder of the applicant's business.

FOR COSMETIC PREPARATIONS—NAMELY, POWDER, ROUGE, LIPSTICK, GREASE PAINTS, HAIR OIL, SHAMPOO POWDERS AND SHAMPOO PREPARATIONS, HAIR LOTIONS, HAIR TINTING PREPARATIONS, SKIN LOTIONS, CREAMS AND PREPARATIONS FOR HEALING THE SKIN, VARNISH AND PAINT FOR FINGER NAILS, PERFUMERY, OILS FOR TOILET PURPOSES, POLISHING CREAM FOR FINGER NAILS, DEPILATORIES, BATH SALTS, BATH OILS, ASTRINGENT AND DEODORANT PREPARATIONS, DENTIFRICES.
Claims use since Mar. 7, 1944.

---

Ser. No. 481,047. GEORGE BEGLEY, JR., doing business as Parfum Dalmora, Chicago, Ill. Filed Mar. 19, 1945.

**BE TRUE**

FOR PERFUME AND COLOGNE.
Claims use since Feb. 12, 1944.

---

Ser. No. 481,499. JACK J. TAUSIG, doing business as Sonorol Laboratories, New York, N. Y. Filed Mar. 29, 1945.

SONOROL

FOR HYPODERMIC SOLUTIONS IN THE TREATMENT OF BLOOD AND VITAMIN DEFICIENCIES; HEMAPINIC VITAMIN DEFICIENCIES; VITAMIN B DEFICIENCIES; AND FOR NEURITIS, POLY-NEURITIS AND SOME FORMS OF ARTHRITIS.
Claims use since Mar. 1, 1939.

---

Ser. No. 482,297. PARA TI CORPORATION, New York, N. Y. Filed Apr. 18, 1945.



No claim is made to the words "Perfume," "Distributors," "New York," and "Printed in Cuba."

FOR PERFUMES, TOILET WATER AND FACE POWDERS, EAU DE COLOGNE, AND DUSTING POWDERS.
Claims use since Nov. 23, 1942.

---

Ser. No. 484,514. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed June 14, 1945.

**IOSOL**

FOR DYESTUFFS FOR USE INDUSTRIALLY FOR COLORING GASOLINE, OILS, SOLVENTS, LACQUERS AND NATURAL AND SYNTHETIC RESINS.
Claims use since Apr. 10, 1945.



Ser. No. 484,611. ARMAND V. BOUTTE, SR., doing business as The Phenacedol Company, New Orleans, La. Filed June 16, 1945.

SODASEPTOL

For the purposes of registration, and without waiving any common law rights thereto, applicant disclaims the exclusive use of the surname "Boutte" and the word "Soda," apart from the mark.

FOR ASTRINGENTS, ANTISEPTICS, AND DEODORIZING SOLUTION USED AS A DOUCHE AND A COOLING AND SOOTHING APPLICATION FOR ULCERS AND SORES.
Claims use since 1924.

---

Ser. No. 484,832. DERMETICS, INC., New York, N. Y. Filed June 21, 1945.

**RED MIST**

The word "Red" is disclaimed apart from the association shown.

FOR LOTIONS FOR SWEETENING THE BREATH, FOR CLEANSING THE TEETH AND TONGUE, AND FOR APPLICATION TO THE SKIN AND SCALP.
Claims use since June 8, 1945.

---

Ser. No. 484,987. E. R. SQUIBB & SONS, New York, N. Y. Filed June 23, 1945. Under section 5b of the act of 1905 as amended in 1920 as to "Squibb".

**SQUIBB ASPIRIN**

Applicant disclaims the term "Aspirin" (the generic or usual name of the goods), except in the combination shown.

FOR ASPIRIN AND TABLETS OF ASPIRIN.
Claims use since 1908.

---

Ser. No. 485,117. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 28, 1945.

*Love Letter Sachets*

The word "Sachets" is disclaimed apart from the mark.

FOR PERFUMED POWDER FOR MAKING SACHET BAGS.
Claims use since Apr. 9, 1940.

---

Ser. No. 485,390. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del. Filed July 3, 1945.

**WEEDAWAY**

FOR HERBICIDES.
Claims use since June 5, 1945.

---

Ser. No. 485,661. STANDARD OIL COMPANY, Louisville, Ky. Filed July 10, 1945.

**KYSO**

FOR TECHNICAL WHITE MINERAL OILS, AND PETROLATUM HAVING A GENERAL USE IN THE INDUSTRIAL ARTS, AND DISINFECTANT.
Claims use since January 1923 on disinfectants; since December 1938 on white oil and mineral oil; and since May 1939 on petrolatum.

---

Ser. No. 485,782. LEDERLE LABORATORIES, INC., New York, N. Y. Filed July 13, 1945.

**DERAVET**

FOR THIOURACIL PREPARATION FOR USE IN VETERINARY MEDICINE AND IN THE FATTENING OF LIVESTOCK BY PRODUCING A SLOWING UP EFFECT ON THE THYROID GLANDS OF ANIMALS.
Claims use since Apr. 24, 1945.

---

Ser. No. 485,808. ARROW ENGINEERING & CHEMICAL CO., INC., Flint, Mich. Filed July 14, 1945.

HY-VAL

FOR ALL PURPOSE INSECT SPRAY, GRAINS FOR DESTROYING MICE, VOLATILE INSECTICIDE AND ROACH POWDER.
Claims use since July 5, 1945.

---

Ser. No. 485,869. JOHN-FREDERICS, INC., New York, N. Y. Filed July 16, 1945.

**UPPER LEVEL**

FOR PERFUME, TOILET WATER, EAU DE COLOGNE, FACE, TALCUM AND DUSTING POWDERS, LIQUID AND CAKE ROUGE, LIPSTICK, FACE AND HAND CREAMS AND LOTIONS, ASTRINGENTS, POWDER BASE, SACHET, BATH SALTS, AND BATH OILS.
Claims use since May 10, 1943.

---

Ser. No. 485,894. L. SONNEBORN SONS, INC., New York, N. Y. Filed July 16, 1945.

**SONOFOAM**

FOR VEGETABLE OIL SHAMPOO.
Claims use since Mar. 10, 1940.

Ser. No. 485,924. RHEEM RESEARCH PRODUCTS INCORPORATED, Baltimore, Md. Filed July 17, 1945.

# RUST-FOE

No claim is made to the word "Rust" except in combination with the mark as shown.

FOR SOLUTION FOR CHEMICALLY PRODUCING A CORROSION RESISTANT COATING ON METALS.

Claims use since July 10, 1945.

---

Ser. No. 485,967. RETARDEX COMPANY, Brooklyn, N. Y. Filed July 18, 1945.

# RETARDEX

FOR DISINFECTANT, SOLD IN RAW, BULK, AND PARTLY PREPARED FORM FOR INDUSTRIAL USES.

Claims use since September 1942.

---

Ser. No. 486,043. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed July 20, 1945.

# HASTA MAÑANA

FOR PERFUME, TALCUM POWDER, SACHET POWDER, FACE POWDER, TOILET WATER, BODY POWDER, AND BRILLIANTINE.

Claims use since May 25, 1945.

---

Ser. No. 486,134. WILLIAM ASTMANN, doing business as Vital Drug Products, Yonkers, N. Y. Filed July 23, 1945.

# PERZON

FOR LOTION FOR POISON IVY, POISON OAK, AND POISON SUMAC.

Claims use since Jan. 1, 1944.

---

Ser. No. 486,196. FOSTER BROTHERS COMPANY, Decatur, Ill. Filed July 24, 1945.

AIRO-LUX

FOR PREPARATION FOR A ROOM DEODORIZER.

Claims use since May 15, 1945.

---

Ser. No. 486,409. HERCULES POWDER COMPANY, Wilmington, Del. Filed July 28, 1945.

# HERCULES

FOR CHLORINATED PARAFFIN.

Claims use since July 13, 1945.

---

Ser. No. 486,555. IRVING WISE & COMPANY, New York, N. Y. Filed July 31, 1945.

# ALUCET

FOR LIQUID MEDICINE TO BE TAKEN ORALLY FOR THE ALLEVIATION OF ARTHRITIS.

Claims use since June 23, 1945.

---

Ser. No. 486,635. MAXWELL KEMPER WILLOUGHBY, King Ferry, N. Y. Filed Aug. 2, 1945.




The words "Dr. Kemper" are the partial signature of the applicant, Maxwell Kemper Willoughby. No claim is made to the word "Laboratory" apart from the mark.

FOR SKIN LOTION.

Claims use since Feb. 10, 1945.

---

Ser. No. 487,067. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed Aug. 13, 1945.

# SUN SILK

FOR FACE POWDER, FACE MAKE-UP IN CAKE OR SOLID FORM, FACE MAKE-UP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, AND PERFUME.

Claims use since June 30, 1945.

---

Ser. No. 487,144. MARGUERITE W. RANGE, doing business as Range Products, Chicago, Ill. Filed Aug. 14, 1945.

MAR-DO-THEL

FOR HAIR AND SCALP OINTMENTS.

Claims use since Apr. 1, 1945.



Ser. No. 487,180. EGYPTIAN CHEMICAL CO., doing business as Manlee Company, Boston, Mass. Filed Aug. 17, 1945.

Manlee

FOR AFTER SHAVE LOTION.

Claims use since June 30, 1945.

---

Ser. No. 487,186. FLUORDENT, INC., New Orleans, La. Filed Aug. 17, 1945.

DESENSITO

FOR PERPARATION FOR TREATING TEETH TO DESENITIZE HYPERSENSITIVE ENAMEL AND DENTIN.

Claims use since July 19, 1945.

---

Ser. No. 487,465. HARRY FLAMHAFT, doing business as Ibis Perfumer, New York, N. Y. Filed Aug. 23, 1945.

# PARFUM 69

Applicant disclaims sole use of the word "Parfum" apart from the mark as shown.

FOR PERFUME AND COLOGNE.

Claims use since Nov. 5, 1944.

---

## CLASS 8

## SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 480,988. HERNER-MATTESON CO., Seattle, Wash. Filed Mar. 16, 1945.

# CIG-JIG

Applicant disclaims the word "Jig" apart from the mark as shown.

FOR HAND-OPERATED DEVICE FOR THE MAKING OF CIGARETTES FOR INDIVIDUAL USE.

Claims use since Dec. 15, 1944.

---

## CLASS 11

## INKS AND INKING MATERIALS

Ser. No. 487,040. A. B. DICK COMPANY, Chicago, Ill. Filed Aug. 11, 1945.




FOR DUPLICATING INK.

Claims use since September 1944.

Ser. No. 487,129. GENERAL ANILINE & FILM CORPORATION, New York, N. Y. Filed Aug. 14, 1945.

# ANTARA

FOR WATERPROOF INK AND OPAQUE TYPEWRITER RIBBONS.

Claims use since Jan. 20, 1945.

---

## CLASS 12

## CONSTRUCTION MATERIALS

Ser. No. 482,120. ROACH AND MUSSER COMPANY, Muscatine, Iowa. Filed Apr. 13, 1945.

WOOD WORK Thrif-T FOR THE HOME

No claim is made for the words "Wood Work For The Home" apart from the mark as shown.

FOR MILLWORK (WOODEN)—NAMELY, DOORS, SASH, NEWELS, MOULDING, STAIRWORK, CASEMENT UNITS, MANTELS, GABLE SASH AND FRAMES, CORNER BEADS, BASE BLOCKS, CORNER BLOCKS, THRESHOLDS, ASTRAGALS, BASEMENT WINDOW UNITS CONSISTING OF FRAME, SASH AND SCREEN READY TO SET IN BASEMENT WALLS, TRIM, REGULAR WINDOWS, WINDOW SCREENS, STORM SASH, WINDOW FRAMES, DOOR FRAMES, ENTRANCE FRAMES, SCREEN DOORS, COMBINATION DOORS, AND STORM DOORS.

Claims use since Mar. 14, 1945.

---

## CLASS 13

## HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 472,391. MAINE SPECIALTY COMPANY, Portland, Maine. Filed July 19, 1945.




FOR PEDRO HOOKS, PELICAN HOOKS, TURNBUCKLE SLEEVES, AND CLEVISES.

Claims use since June 5, 1944, on pedro hooks; since Oct. 27, 1944, on pelican hooks; and since Nov. 3, 1944, on turnbuckle sleeves and clevises.

Ser. No. 481,161. PURITAN COMPRESSED GAS CORPORATION, Kansas City, Mo. Filed Mar. 21, 1945.




The word "Brand" is disclaimed apart from the mark as shown. The portrait appearing in the drawing is fanciful, and the horizontal lining behind the Puritan figure represents shading.

FOR HIGH PRESSURE METAL CONTROL VALVES, VALVE SEATS AND FITTINGS FOR VALVES USED IN CONNECTION WITH THE CONSUMPTION AND USE OF INDUSTRIAL GASES.

Claims use since Mar. 23, 1940.

## CLASS 16

### PAINTS AND PAINTERS' MATERIALS

Ser. No. 475,355. BRULIN & COMPANY, INCORPORATED, Indianapolis, Ind. Filed Oct. 16, 1944.

Friendly House Product

The words "House Product" are disclaimed apart from the mark.

FOR LIQUID FLOOR WAXES AND A PASTE FURNITURE POLISH.

Claims use since July 1, 1943.

Ser. No. 481,747. NATIONAL LACQUER & PAINT COMPANY, INC., Chicago, Ill. Filed Apr. 5, 1945.



The drawing is lined for red in the top section and for blue in the bottom section. The outline of the label is disclaimed apart from the mark as shown in the drawing.

FOR READY-MIXED LACQUERS, PAINTS, AND PAINT ENAMELS.

Claims use since Feb. 1, 1929.

## CLASS 19

### VEHICLES

Ser. No. 482,708. SPIEGEL, INC., Chicago, Ill. Filed Apr. 27, 1945.

AIRMAN

FOR BICYCLES AND PARTS THEREOF.

Claims use since March 1934.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 483,671. JACK BOWEN, doing business as Electronic Communication Equipment Co., Chicago, Ill. Filed May 23, 1945.



The drawing is lined to indicate red color.

FOR ELECTRONIC COMMUNICATION APPARATUS—NAMELY, ELECTRONIC AMPLIFYING APPARATUS AND ELECTRONIC LOUDSPEAKER APPARATUS, IN THE NATURE OF TRAIN-DISPATCHING AMPLIFYING AND LOUDSPEAKER APPARATUS AND WAY-STATION AMPLIFYING AND LOUDSPEAKER APPARATUS FOR USE ON RAILWAY TRAINS AND IN RAILWAY STATIONS.

Claims use since on or about Aug. 15, 1943.

Ser. No. 485,091. LEO F. LEITWEN, doing business as Electro-Matic Products Co., Chicago, Ill. Filed June 27 1945.

ELECTRO—MATIC

The right to the exclusive use of the word "Electro" is disclaimed except in the relation shown.

FOR ELECTRICAL RECTIFIERS FOR RECTIFYING ALTERNATING CURRENT AND INDEX TIMERS FOR CONTROLLING ELECTRICALLY THE WORK-PIECE FEEDING MOVEMENTS OF MACHINE TOOLS.

Claims use since June 10, 1941, on electrical rectifiers, and since Nov. 19, 1942, on index timers.

Ser. No. 487,105. UNIVERSAL MICROPHONE COMPANY, Inglewood, Calif. Filed Aug. 13, 1945.

ROBOLITE

FOR ELECTRIC LIGHT BULBS.

Claims use since June 1, 1945



Ser. No. 487,126. GENERAL ARTISTS & FILM CORPORATION, New York, N. Y. Filed Aug. 14, 1945.

ANTARA

FOR ELECTRIC-LIGHT UNIT CONTAINING HIGH PRESSURE MERCURY VAPOR ARC TUBE.

Claims use since Jan. 20, 1945.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 487,903. GENERAL FIBRE COMPANY, St. Louis, Mo. Filed Sept. 1, 1945.

ARIDUK

FOR DUCK DECOYS.

Claims use since Aug. 20, 1945.

Ser. No. 488,087. JULIA CULBRETH GRAY, Washington, D. C. Filed Sept. 7, 1945.

Gal of the Gay Nineties

FOR DOLLS.

Claims use since Aug. 30, 1945.

Ser. No. 488,151. FERNDAY RESEARCH CORPORATION, New York, N. Y. Filed Sept. 8, 1945.

ZOOMER

FOR TOY GLIDERS.

Claims use since Aug. 6, 1945.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 478,199. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed Jan. 4, 1945.

Master Control

Without waiving any common law rights, no claim is made to the word "Control" apart from the mark.

FOR PRINTING DEVICES FOR USE IN ADDRESSING AND SIMILAR MACHINES—NAMELY, PRINTING PLATES BEFORE AND AFTER EMBOSSING FOR USE ALONE, PRINTING PLATES BEFORE AND AFTER EMBOSSING FOR USE IN FRAMES, AND FRAMES FOR SAID PLATES.

Claims use since Dec. 20, 1944.

Ser. No. 484,444. CALKINS MANUFACTURING COMPANY, Spokane, Wash. Filed June 12, 1945.

GRAIN-MISER

No claim is made to the word "Grain" separate and apart from the mark as shown.

FOR COMBINE SHOES USED AS SHAKER SCREEN SEPARATORS IN HARVESTER-THRESHER COMBINES.

Claims use since Feb. 10, 1938.

Ser. No. 484,445. CALKINS MANUFACTURING COMPANY, Spokane, Wash. Filed June 12, 1945.

RECLAMATOR

FOR ROTARY HOE WEEDERS.

Claims use since Mar. 1, 1940.

Ser. No. 484,520. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa. Filed June 14, 1945.



FOR BEET KNIVES.

Claims use since 1900.

Ser. No. 485,885. RIVAL MANUFACTURING COMPANY, Kansas City, Mo. Filed July 16, 1945.

Can-O-Mat

Appropriation of the word "Can" except as used in the mark "Can-O-Mat" is disclaimed.

FOR CAN OPENERS.

Claims use since July 5, 1945.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 478,218. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill. Filed Jan. 4, 1945.

THERMOPOINT

FOR ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF.

Claims use since Feb. 2, 1934.

Ser. No. 484,257. JOHNSON & SONS, MANUFACTURING CHEMISTS, LIMITED, London, England. Filed June 7, 1945.

FOR PHOTOGRAPHIC APPARATUS—NAMELY, ENLARGERS, PROJECTION APPARATUS, DEVELOPING APPARATUS, DRYING MACHINERY, PRINTING MACHINERY USED IN CONNECTION WITH THE FINISHING OF PHOTOGRAPHS FOR AMATEURS AND ACCESSORY EQUIPMENT FOR SIMILAR PURPOSES; APPARATUS SUCH AS SPLICING AND JOINING MACHINES, REWINDERS, EDITORS, SPOOLS, CARRIERS AND THE LIKE; AND CINEMATOGRAPH PROJECTORS AND EQUIPMENT THEREFOR, SUCH AS SPARE LENSES, SPOOLS, CARRYING CASES, STANDS, AND THE LIKE, INCLUDING PROJECTORS FOR "STILL" LANTERN SLIDES AND FILM STRIPS.
Claims use since December 1941.

Ser. No. 487,843. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill. Filed Aug. 31, 1945.

THERMOCON

FOR ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF.
Claims use since on or about July 20, 1945.

Ser. No. 487,844. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill. Filed Aug. 31, 1945.

THERMOTAC

FOR ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF.
Claims use since July 20, 1945.

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 486,169. J. ARTHUR ROGERS & SON, Chicago, Ill. Filed July 23, 1945.

STRAT-O-LINE

FOR FINGER RINGS.
Claims use since Jan. 15, 1945.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 482,875. FREZ-O-MAT COMPANY, Chicago, Ill. Filed May 2, 1945.

FREZ-O-MAT

Applicant disclaims exclusive right to "Frez" apart from the mark and without prejudice to any common law rights which may exist in connection therewith.
FOR SELF-SERVING REFRIGERATOR DISPENSING CABINETS, BOTH WITH OR WITHOUT COIN OPERATING MEANS.
Claims use since Apr. 14, 1945.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 482,617. L. A. DARLING COMPANY, Bronson, Mich. Filed Apr. 26, 1945.

DARLING

FOR MERCHANDISE DISPLAY STANDS AND RACKS, PRICE-AND-DISPLAY-CARD STANDS FOR USE ON STORE COUNTERS AND FLOORS AND IN DISPLAY WINDOWS.
Claims use since on or about October 1938.

Ser. No. 485,608. SPRING-AIR COMPANY, Holland, Mich. Filed July 9, 1945.

Spar-tan

FOR MATTRESSES AND BOX SPRINGS.
Claims use since May 10, 1945.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 478,459. LA-DEL CONVEYOR & MANUFACTURING COMPANY, New Philadelphia, Ohio. Filed Jan. 10, 1945.

LA-DEL-TROLLER

The word "Troller" is disclaimed apart from the mark shown.
FOR VENTILATING FANS AND APPARATUS FOR CONVEYING AIR COMPRISING THE COMBINATION OF A CONDUIT HOUSING WITH ONE OR MORE FANS CONNECTED THEREWITH TO MOVE AIR THERETHROUGH.
Claims use since Apr. 1, 1937.



Ser. No. 481,754. PETTIBONE MULLIKEN CORPORATION, Chicago, Ill. Filed Apr. 5, 1945.

PMCO

FOR BELL SEATS FOR BLAST FURNACES; BELL BLOCKS AND WEARING RINGS FOR BLAST FURNACES.
Claims use since January 1924.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 486,947. FRAM CORPORATION, East Providence, R. I. Filed Aug. 9, 1945.

FRAMFLEX

FOR LIQUID CONDUITS FOR OIL FILTER CONNECTIONS.
Claims use since July 12, 1945.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 477,764. THE GLOBE-WERNICKE CO., Norwood, Ohio. Filed Dec. 20, 1944.

Applicant is the owner of Regs. Nos. 63,724 and 63,726, both renewed. Applicant disclaims the name "Wernicke" apart from the mark.
FOR DEPOSIT TICKET FILES, INDEX TABS, GUMMED FOLDER LABELS, BINDING CASES, ENVELOPES, EXPANDING ENVELOPES, LEGAL ENVELOPES, TIE ENVELOPES, FILE POCKETS, CLIPBOARDS, COMPRESSOR COVERS, AND HAND OPERATED PERFORATORS.
Claims use since on or about Jan. 1, 1928.

Ser. No. 481,997. INTERNATIONAL PLASTIC CORPORATION, Morristown, N. J. Filed Apr. 11, 1945.

Slap Stick

Applicant disclaims the word "Stick" apart from the mark.
FOR PAPER ADHESIVE TAPES AND CELLULOSE ADHESIVE TAPES.
Claims use since Feb. 7, 1945.

Ser. No. 486,638. AGENCY PAPER COMPANY, New York, N. Y. Filed Aug. 3, 1945.

Take-Off

Applicant is the owner of Reg. No. 415,228.
FOR AIR-MAIL PAPER, AIR-MAIL ENVELOPES, PRINTING PAPER, MAILING ENVELOPES, AND WRITING PAPER.
Claims use since Jan. 29, 1945.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 487,882. WILLIAM C. BOSWELL, Seattle, Wash. Filed Sept. 1, 1945.

PLATTER CHATTER

FOR PUBLICATION ISSUED PERIODICALLY COMPRISING NEWS RELATING TO PHONOGRAPHIC RECORD PUBLISHINGS.
Claims use since Aug. 1, 1945.

Ser. No. 488,527. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Sept. 15, 1945.

Illumineering

FOR PERIODICAL OF THE HOUSE ORGAN TYPE.
Claims use since Aug. 1, 1945.

## CLASS 39

### CLOTHING

Ser. No. 480,477. SPIEGEL, INC., Chicago, Ill. Filed Mar. 3, 1945.

Elastibles

THE SHOE WITH THE 2 WAY STRETCH

Without waiving any common law rights thereto, applicant disclaims exclusive use to the phrase "The Shoe with the 2 Way Stretch" apart from the mark.

FOR SHOES MADE OF RUBBER, LEATHER, AND FABRIC, OR COMBINATIONS THEREOF.

Claims use since Jan. 5, 1945.

---

Ser. No. 480,825. INDUSTRIAL MANUFACTURERS, INC., New York, N. Y. Filed Mar. 12, 1945.

Bloomer Girl

Applicant disclaims the right to the exclusive use of the word, "Bloomer," except in the relation and association shown.

FOR INFANTS' AND CHILDREN'S PLAY SUITS AND ROMPERS.

Claims use since Jan. 10, 1945.

---

Ser. No. 483,388. SPENCER SHOE CORPORATION, Boston, Mass. Filed May 15, 1945.

Magi-flex

FOR SHOES AND ARCH CUSHIONS.

Claims use since Apr. 20, 1945.

---

Ser. No. 484,084. BYCK BROS. & COMPANY, INCORPORATED, Louisville, Ky. Filed June 2, 1945.

Magnolia White

Applicant disclaims the word "White" apart from the mark.

FOR ARTICLES OF CLOTHING FOR WOMEN AS FOLLOWS: DRESSES, COATS, SUITS, HATS, BATHING SUITS, SWEATERS, SHOES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF, GLOVES MADE IN WHOLE OR IN PART OF LEATHER OR FABRIC, ROBES FOR PERSONAL WEAR, HOSIERY, ALSO LINGERIE—NAMELY, SLIPS, NIGHTGOWNS, BRASSIÈRES, STEPINS, AND SHORTS; ALSO PLAY CLOTHES—NAMELY, SHORTS, SHIRTS, BRAS, PLAYSUITS AND SLACKS.

Claims use since Apr. 30, 1945, on bathing suits, sweaters, play clothes—namely shorts, shirts, bras, playsuits and slacks; and since Apr. 6, 1945, on remaining goods.

Ser. No. 484,843. HOWARD KNITWEAR, New York, N. Y. Filed June 21, 1945.

KEEN KUTTERS

FOR CHILDREN'S AND GIRLS' KNITWEAR—NAMELY, SWEATERS, SWEATER AND HOOD COMBINATIONS, TWIN SWEATER SETS, POLO SHIRTS, SCARFS, AND FASCINATORS.

Claims use since Aug. 1, 1944.

---

Ser. No. 485,246. SAKS & COMPANY, New York, N. Y. Filed June 29, 1945.

7th Heaven

FOR WOMEN'S AND MISSES' DRESSES, HATS, COATS, SUITS, AND BLOUSES.

Claims use since June 1, 1944.

---

Ser. No. 485,893. TIMMY TOGS COMPANY, Philadelphia, Pa. Filed July 16, 1945.

HY-LAD

Applicant disclaims the right to the exclusive use of the word "Lad" except in the relation and association shown.

FOR BOYS' WASH AND DRESS SUITS, BLOUSES, OUTER SHIRTS, PAJAMAS, SLACKS, SLACK SUITS, AND SPORT COATS.

Claims use since June 15, 1945.

---

Ser. No. 486,149. KEEPSAKE LINGERIE, Chicago, Ill. Filed July 23, 1945.

Keepsake Lingerie

The words "Lingerie," "Gowns," "Pajamas," and "Slips" are disclaimed apart from the mark.

FOR LINGERIE—NAMELY, GOWNS, PAJAMAS, AND SLIPS.

Claims use since May 23, 1945.

---

Ser. No. 486,155. MAY GIRL COAT CO., New York, N. Y. Filed July 23, 1945.

NORITA

FOR GIRLS' COATS.

Claims use since Mar. 1, 1944.



Ser. No. 486,401. ARISTA FOUNDATIONS, New York, N. Y. Filed July 28, 1945.

ARISTA

FOR FOUNDATION GARMENTS, CORSETS, GIRDLES, BANDEAUX, AND BRASSIÈRES.

Claims use since July 6, 1945.

---

Ser. No. 486,517. DAYTIMER SHOE COMPANY, North Adams, Mass. Filed July 31, 1945.

JIMINY KIX

FOR CHILDREN'S SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF.

Claims use since July 10, 1945.

---

Ser. No. 486,851. CAROLINA UNDERWEAR COMPANY, INC., Thomasville, N. C. Filed Aug. 7, 1945.

Olina

FOR LADIES' UNDERWEAR—NAMELY, PANTIES, BLOOMERS, SLIPS, GOWNS, PAJAMAS; AND MEN'S SHORTS, UNION SUITS, SPORT SHIRTS, AND PAJAMAS.

Claims use since 1931.

---

Ser. No. 486,957. LE ROI HOSIERY CO., INC., New York, N. Y. Filed Aug. 9, 1945.

ROMPSXERS.

FOR CHILDREN'S HOSIERY.

Claims use since Mar. 1, 1943.

## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 475,433. MCCOY, JONES & COMPANY, INC., Chicago, Ill. Filed Oct. 18, 1944.



LAFAYETTE

The trade-mark consists of the name "Lafayette" and a portrait of General Lafayette. The lining in the drawing indicates shading only.

FOR PINS, SAFETY PINS, HOOK AND EYE FASTENERS, SNAP FASTENERS, AND THIMBLES.

Claims use since Oct. 7, 1901.

Ser. No. 476,280. ALBERT T. FISCHER, doing business as Plastic Products Co., Cleveland Heights, Ohio. Filed Nov. 9, 1944.

AD-A-TRIM

The word "Trim" is disclaimed apart from the mark as shown.

FOR THERMOPLASTIC TREATED APPLIQUES FOR USE ON GARMENTS AND TEXTILES.

Claims use since Aug. 22, 1944.

---

Ser. No. 481,164. MARION ROSE, Chicago, Ill. Filed Mar. 21, 1945.

ROSE

FOR HAIR CURLERS OF THE HAND-OPERATED TYPE.

Claims use since May 1940.

---

Ser. No. 484,544. STAR PLASTIC MFG. CO., INC., New York, N. Y. Filed June 14, 1945.

PLASTAR

The right to the exclusive use of the pictorial representation of the goods except in relation and association shown is disclaimed.

FOR TRIMMINGS—NAMELY, NAIL HEADS, BEADS, BUGLES, SEQUINS, AND SPANGLES.

Claims use since June 9, 1945.

---

Ser. No. 484,545. STAR PLASTIC MFG. CO., INC., New York, N. Y. Filed June 14, 1945.

PLASTAR

FOR TRIMMINGS—NAMELY, NAIL HEADS, BEADS, BUGLES, SEQUINS, AND SPANGLES.

Claims use since June 9, 1945.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 465,657. FREUND, FREUND & CO., INC., New York, N. Y. Filed Dec. 9, 1943.




FOR COTTON PIECE GOODS, PILLOW CASES, PILLOW PROTECTORS, PILLOW TICKS, BOLSTER PROTECTORS, MATTRESS COVERS, QUILT COVERS, AND BLANKET COVERS.
Claims use since January 1933.

---

Ser. No. 477,755. AMERICAN TEXTILE COMPANY, INC., Pawtucket, R. I. Filed Dec. 20, 1944.

Ametex

FOR LACE SOLD BY THE PIECE, YARD, OR BOLT.
Claims use since 1905.

---

Ser. No. 477,756. AMERICAN TEXTILE COMPANY, INC., Pawtucket, R. I. Filed Dec. 20, 1944.



Ametex

The vertical lines indicate shading only.
FOR LACE SOLD BY THE PIECE, YARD, OR BOLT.
Claims use since 1940.

Ser. No. 481,242. WM. H. PINNELL CO., INC., New York, N. Y. Filed Mar. 23, 1945.




FOR FABRICS IN THE PIECE OF COTTON, RAYON, AND WOOL.
Claims use since Aug. 1, 1944.

---

Ser. No. 483,621. HOME-MADE RUG CO., Kernersville, N. C., and New York, N. Y. Filed May 21, 1945.

Colonial Bell

The word "Colonial" is disclaimed except in the relation and association shown.
FOR RUGS.
Claims use since March 1942.

---

## CLASS 43

### THREAD AND YARN

Ser. No. 486,983. CALLAWAY MILLS, La Grange, Ga. Filed Aug. 10, 1945.

"Calstro"

FOR YARN MADE OF COTTON FIBRE.
Claims use since July 12, 1945.

---

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 481,525. RONALD GAGE DAVIS, doing business as The Spartan Company, Minneapolis, Minn. Filed Mar. 30, 1945.

Spartan

FOR VAPORIZERS FOR MEDICAMENTS WHICH CAN ALSO BE USED AS HUMIDIFIERS.
Claims use since Jan. 7, 1945.



## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 482,877. WILLIAM F. GLENN, doing business as "K-9" Market, Rochester, N. Y. Filed Apr. 20, 1945.

4-T-FIDE DINNER

Applicant disclaims the exclusive use of the word "Dinner" apart from the mark shown.
FOR DOG AND CAT FOOD.
Claims use since Jan. 10, 1945.

---

Ser. No. 484,493. WM. MONTGOMERY CO., Philadelphia, Pa. Filed June 13, 1945.




Applicant is the owner of Reg. Nos. 408,999 and 409,289. No claim is made to thme words "Means Merit" apart from the mark.
FOR COFFEE.
Claims use since Nov. 1, 1906, on the mark "Montco"; and since Jan. 12, 1944, on the mark as shown.

---

Ser. No. 486,418. ROBERT C. LYERLY, doing business as The Tomly Company, Salisbury, N. C. Filed July 28, 1945.




The drawing is lined for the color blue.
FOR ICE CREAM MIX.
Claims use since May 15, 1945.

Ser. No. 486,599. CLARENCE Y. WONG, doing business as China Food Distributors, Los Angeles, Calif. Filed Aug. 1, 1945.

TWIN DRAGONS

FOR FLAVORING CONDIMENT IN POWDER FORM FOR FOODS.
Claims use since July 17, 1945.

---

Ser. No. 487,511. ALEX L. MAGRILL, doing business as Alex-Torts Company, Dallas, Tex. Filed Aug. 24, 1945.

Alex's

FOR CANDY AND POTATO CHIPS.
Claims use since 1928.

---

## CLASS 47

### WINES

Ser. No. 486,116. BARTOLOMEO PIO, Philadelphia, Pa. Filed July 21, 1945.

AMERICAN HOST

No claim is made to "American" apart from the mark.
FOR WINES.
Claims use since on or about Feb. 10, 1942.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

## DECEMBER 18, 1945

418,320. INDUSTRIAL GYPSUM FILLERS, LIME AND GROUND LIMESTONE NOT PREPARED FOR CONSTRUCTION USE. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed November 23, 1942. Serial No. 456,994. PUBLISHED OCTOBER 9, 1945. Class 1.

418,321. LIQUID SKIN TREATING PREPARATION INTENDED TO RELIEVE ITCHING IN THE TREATMENT OF IVY AND OAK POISONING, INSECT BITES AND STINGS, AND COLD SORES. EMIL P. MARTINI, doing business as Elmar Laboratories, Hackensack, N. J.
Filed May 28, 1943. Serial No. 461,000. PUBLISHED SEPTEMBER 21, 1943. Class 6.

418,322. ELECTRIC SPACE HEATERS AND ELECTRIC IRONS. BIRTMAN ELECTRIC COMPANY, Chicago, Ill.
Filed December 18, 1943. Serial No. 465,863. PUBLISHED OCTOBER 9, 1945. Class 21.

418,323. DIES FOR PRIVATE USE IN MAKING BANDED BULLETS. FREDERICK T. HUNTINGTON, doing business as R. C. B. S. Company, Oroville, Calif.
Filed February 11, 1944. Serial No. 467,341. PUBLISHED OCTOBER 9, 1945. Class 9.

418,324. PIECE GOODS MADE OF NATURAL OR SYNTHETIC FIBERS TREATED WITH PLASTICS OR SYNTHETIC RESINS FOR USE IN SHOWER CURTAINS, RAIN COATS, UMBRELLAS AND OTHER WATERPROOF ARTICLES. THE FIRESTONE TIRE & RUBBER COMPANY, doing business as Firestone Industrial Products Company, Akron, Ohio.
Filed March 13, 1944. Serial No. 468,243. PUBLISHED APRIL 17, 1945. Class 42.

418,325. UNFINISHED OR PARTLY FINISHED OR SEMIFABRICATED CASTINGS AND FORGINGS FOR MECHANICAL APPARATUS AND TOOLS GENERALLY AND PARTS THEREOF. THOMAS R. GARDINER, doing business as Gardiner Mfg. Co., Oakland, Calif.
Filed April 29, 1944. Serial No. 469,810. PUBLISHED OCTOBER 2, 1945. Class 14.

418,326. HEADACHE PREPARATION IN TABLET FORM INTENDED FOR SALE ON PHYSICIANS' PRESCRIPTIONS. PRODOL COMPANY, INC., New York, N. Y.
Filed June 2, 1944. Serial No. 470,864. PUBLISHED NOVEMBER 14, 1944. Class 6.

418,327. RADIO RECEIVERS AND RADIO TRANSMITTERS. PANORAMIC RADIO CORPORATION, New York, N. Y.
Filed June 15, 1944. Serial No. 471,279. PUBLISHED OCTOBER 9, 1945. Class 21.

418,328. PREPARATION IN PASTE OR SEMI-PASTE FORM TO BE APPLIED TO LEATHER AS A DRESSING, POLISH, AND FINISH THEREFOR. K. J. QUINN & CO. INC., Boston, Mass.
Filed June 20, 1944. Serial No. 471,458. PUBLISHED OCTOBER 9, 1945. Class 4.

418,329. HEATING DEVICES HAVING A VESSEL IN WHICH WATER IS VAPORIZED BY ELECTRODES FOR WARMING BABY BOTTLES OR THE LIKE. ELECTRIC STEAM RADIATOR CORPORATION, Detroit, Mich.
Filed June 29, 1944. Serial No. 471,793. PUBLISHED OCTOBER 9, 1945. Class 21.

418,330. KNITTED FABRICS IN THE PIECE OF RAYON, COTTON, PROTEIN FIBRES, AND COMBINATIONS THEREOF. BEAUNIT MILLS, INC., New York, N. Y.
Filed July 1, 1944. Serial No. 471,849. PUBLISHED JUNE 19, 1945. Class 42.

418,331. OLEOMARGARINE. SWIFT-ARMOUR FOODS, INC., Detroit, Mich.
Filed July 11, 1944. Serial No. 472,127. PUBLISHED OCTOBER 2, 1945. Class 46.

418,332. CANDY. M & M LIMITED, Newark, N. J.
Filed September 16, 1944. Serial No. 474,291. PUBLISHED MAY 22, 1945. Class 46.

418,333. CANNED VEGETABLES. ALBERT W. SISK & Son, Preston, Md.
Filed September 16, 1944. Serial No. 474,302. PUBLISHED OCTOBER 9, 1945. Class 46.

418,334. ELECTRICAL LAMPS, ESPECIALLY USEFUL FOR DIE MAKERS AND THE LIKE. WALDO L. GARBERDING, doing business as Twentieth Century Mfg. Co,. Chicago, Ill.
Filed September 20, 1944. Serial No. 474,407. PUBLISHED OCTOBER 9, 1945. Class 21.

418,335. PERFUMES, COLOGNE, TOILET WATER, FACE POWDER, DUSTING POWDER, SACHET POWDER, TALCUM POWDER, AND LIPSTICK. LUCIEN LE LONG, INC., Chicago, Ill.
Filed September 20, 1944. Serial No. 474,416. PUBLISHED OCTOBER 2, 1945. Class 6.

418,336. MAKE-UP AND LIPSTICK. GIBBS & COMPANY, Chicago, Ill.
Filed October 23, 1944. Serial No. 475,613. PUBLISHED MAY 22, 1945. Class 6.

418,337. SHAMPOO. LOUIS NAPOLITAN, doing business as M. Louis Products Co., New York, N. Y.
Filed November 15, 1944. Serial No. 476,677. PUBLISHED OCTOBER 2, 1945. Class 6.

418,338. DEODORANTS OF LIQUID AND CREAM TYPE, FACE POWDER, ROUGE, LIPSTICK, DUSTING POWDER, ETC. RICHARD HUDNUT, New York, N. Y.
Filed November 21, 1944. Serial No. 476,738. PUBLISHED OCTOBER 9, 1945. Class 6.

418,339. CHEMICAL RUST INHIBITOR FOR LUBRICATING, HYDRAULIC, RUST PROOFING, AND OTHER HIGHLY REFINED PETROLEUM OILS. SHELL UNION OIL CORPORATION, San Francisco, Calif.
Filed December 16, 1944. Serial No. 477,668. PUBLISHED MAY 1, 1945. Class 6.

418,340. ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill.
Filed December 18, 1944. Serial No. 477,699. PUBLISHED OCTOBER 9, 1945. Class 26.

418,341. CANNED FRUITS AND CANNED VEGETABLES, DRIED DATES, DRIED APRICOTS, DRIED OKRA, DRIED RAISINS, DRIED CURRANTS, OLIVE OIL, OLIVES, CHEESE, AND DRIED FISH. INTERNATIONAL IMPORTING COMPANY, Boston, Mass.
Filed January 22, 1945. Serial No. 478,873. PUBLISHED OCTOBER 9, 1945. Class 46.





418,342. NEEDLES FOR HAND USE, HAT PINS OF NON-PRECIOUS METALS, TOILET PINS, KNITTING PINS, SAFETY PINS, HAIR PINS, CROCHET HOOKS, AND NEEDLE CASES. MORRIS & YEOMANS LTD., Redditch, England.
Filed January 23, 1945. Serial No. 478,928. PUBLISHED OCTOBER 9, 1945. Class 40.

418,343. LIQUID WOOD PRESERVATIVE IN THE NATURE OF A CHEMICAL PREPARATION. MEYER RUBINSTEIN, doing business as The Besteseal Co., New York, N. Y.
Filed February 5, 1945. Serial No. 479,445. PUBLISHED OCTOBER 2, 1945. Class 6.

418,344. PARATROOP RADIO TELEPHONES, RADIO FREQUENCY CRYSTALS, AND SHORT WAVE TELEPHONE TRANSMITTERS AND RECEIVERS. HIGGINS INDUSTRIES, INC., New Orleans, La.
Filed February 6, 1945. Serial No. 479,480. PUBLISHED OCTOBER 9, 1945. Class 21.

418,345. CHEMICALLY MODIFIED CORN PROTEIN USED AS A PROTECTIVE COLLOID IN EMULSIONS AND FOAMS AND AS A RAW MATERIAL FOR THE PREPARATION OF AMINO ACID AND AS A BINDER FOR PIGMENTS. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed February 28, 1945. Serial No. 480,314. PUBLISHED OCTOBER 2, 1945. Class 6.

418,346. HAIR COLORING PREPARATIONS. RAPIDOL DISTRIBUTING CORPORATION, New York, N. Y.
Filed March 7, 1945. Serial No. 480,622. PUBLISHED JUNE 12, 1945. Class 6.

418,347. RADIO COMMUNICATION TRANSMITTERS AND RECEIVERS. WILCOX ELECTRIC COMPANY, INC., Kansas City, Mo.
Filed March 10, 1945. Serial No. 480,810. PUBLISHED OCTOBER 9, 1945. Class 21.

418,348. COMPOUND FOR THE TREATMENT OF GASTROINTESTINAL INFECTIONS. GEORGE A. BREON & COMPANY, Kansas City, Mo.
Filed March 12, 1945. Serial No. 480,818. PUBLISHED OCTOBER 2, 1945. Class 6.

418,349. KNIFE SHARPENING MACHINES. SIMPLEX CLOTH CUTTING MACHINE COMPANY, New York, N. Y.
Filed March 17, 1945. Serial No. 481,029. PUBLISHED OCTOBER 9, 1945. Class 23.

418,350. DISPERSING AGENTS FOR SUCH PIGMENTED COATING MATERIALS AS PAINTS, ENAMELS, AND LACQUERS, AND THE LIKE. NUODEX PRODUCTS CO., INC., Elizabeth, N. J.
Filed March 20, 1945. Serial No. 481,122. PUBLISHED OCTOBER 9, 1945. Class 16.

418,351. BREAD, ROLLS, CAKES, COOKIES, BISCUITS, DOUGHNUTS, WHEAT FLOUR, WHOLE WHEAT FLOUR, CORNMEAL, RYE FLOUR, AND GRAIN MEAL. THE OLD RIP VAN WINKLE GRIST MILL, INC., Catskill, N. Y.
Filed March 21, 1945. Serial No. 481,155. PUBLISHED OCTOBER 9, 1945. Class 46.

418,352. PERFUME, COLOGNE, TOILET WATER, FACE POWDER, ROUGE, AND NAIL POLISH. JOHN L. PRIMM, Chicago, Ill.
Filed April 4, 1945. Serial No. 481,714. PUBLISHED OCTOBER 2, 1945. Class 6.

418,353. SHOE DYES. OLD DUTCH INDUSTRIAL PRODUCTS CO., INC., Harrison, N. J.
Filed April 14, 1945. Serial No. 482,177. PUBLISHED OCTOBER 9, 1945. Class 6.

418,354. SAFETY SWITCHES FOR INTERNAL COMBUSTION ENGINES. CLIFFORD D. SPRACHER, Downey, Calif.
Filed April 16, 1945. Serial No. 482,222. PUBLISHED OCTOBER 9, 1945. Class 21.

418,355. CANNED BEANS. CHAS G. SUMMERS, JR., INCORPORATED, New Freedom, Pa.
Filed April 18, 1945. Serial No. 482,302. PUBLISHED OCTOBER 2, 1945. Class 46.

418,356. BEARING METALS, CORED AND SOLID BARS, GEAR BLANKS, CASTINGS, AND DRAWN RODS, ALL MADE OF BRONZE. SUMET CORPORATION, Buffalo, N. Y.
Filed April 20, 1945. Serial No. 482,402. PUBLISHED OCTOBER 2, 1945. Class 14.

418,357. DYE ASSISTANTS, DYES, AND DYESTUFFS. L & R ORGANIC PRODUCTS CO., INC., New York, N. Y.
Filed April 21, 1945. Serial No. 482,429. PUBLISHED OCTOBER 9, 1945. Class 6.

418,358. METAL CUTTING TOOLS—NAMELY, TWIST DRILLS, REAMERS, END MILLS, MILLING CUTTERS, BORERS, AND SINGLE OR MULTIPLE POINT METAL CUTTING CARBIDE TIPPED TOOLS FOR USE ON LATHES. NELCO TOOL CO., INC., New York, N. Y.
Filed April 21, 1945. Serial No. 482,437. PUBLISHED OCTOBER 9, 1945. Class 23.

418,359. METAL CHRISTMAS TREE HOLDERS FOR SUPPORTING LARGE SIZE CHRISTMAS TREES. JOHN A. FREEL, doing business as Michigan Specialty and Manufacturing Co., Bay City, Mich.
Filed April 23, 1945. Serial No. 482,485. PUBLISHED OCTOBER 9, 1945. Class 13.

418,360. YARN. R. WOLFENDEN & SONS, Attleboro, Mass.
Filed April 24, 1945. Serial No. 482,562. PUBLISHED OCTOBER 9, 1945. Class 43.

418,361. ELECTRICAL SWITCHES, RELAYS, SOLENOIDS, VOLTAGE REGULATORS, FUSE BLOCKS, RESISTORS, AND TERMINALS. ESSEX WIRE CORPORATION, Detroit, Mich.
Filed April 25, 1945. Serial No. 482,567. PUBLISHED OCTOBER 9, 1945. Class 21.

418,362. ELECTRIC INSULATED WIRE, ELECTRIC CORDS, ELECTRIC INSULATING TUBING, AND ELECTRIC INSULATING TAPE. ALBERT H. SUBPENANT, Boston, Mass.
Filed April 27, 1945. Serial No. 482,715. PUBLISHED OCTOBER 9, 1945. Class 21.

418,363. LIQUID CLEANER AND STAIN REMOVER FOR WEARING APPAREL. GLOBE DISINFECTING CO., INC., New York, N. Y.
Filed April 28, 1945. Serial No. 482,739. PUBLISHED OCTOBER 2, 1945. Class 4.

418,364. BELT DRESSING. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed May 1, 1945. Serial No. 482,839. PUBLISHED OCTOBER 2, 1945. Class 4.

418,365. TOILET SOAPS. MYRURGIA, S. A., Barcelona, Spain.
Filed May 1, 1945. Serial No. 482,850. PUBLISHED OCTOBER 2, 1945. Class 4.

418,366. DRY CLEANER, CLOTH CLEANER, HAT CLEANER (NOT A BLEACH), GLOVE CLEANER, HANDBAG CLEANER, ETC. WILCO COMPANY, Los Angeles, Calif.
Filed May 1, 1945. Serial No. 482,861. PUBLISHED OCTOBER 9, 1945. Class 4.

418,367. HOROLOGICAL INSTRUMENTS—NAMELY, WATCHES AND CLOCKS. POST WATCH COMPANY, New York, N. Y.
Filed May 5, 1945. Serial No. 483,030. PUBLISHED OCTOBER 9, 1945. Class 27.

418,368. LIQUID COMPOSITION FOR FORMING BUBBLES FOR ENTERTAINMENT, DISPLAY, AND AERONAUTICAL RESEARCH. AVIATION RESEARCH & DEVELOPMENT CORPORATION, Fredericksburg, Va.
Filed May 10, 1945. Serial No. 483,165. PUBLISHED OCTOBER 9, 1945. Class 6.

418,369. TOILET SOAPS. MYRURGIA, S. A., Barcelona, Spain.
Filed May 12, 1945. Serial No. 483,278. PUBLISHED OCTOBER 2, 1945. Class 4.

418,370. TOILET SOAPS. MYRURGIA, S. A., Barcelona, Spain.
Filed May 12, 1945. Serial No. 483,279. PUBLISHED OCTOBER 2, 1945. Class 4.

418,371. DRAIN CLEANERS OF THE WATER ACTUATED TYPE. H. R. BASFORD CO., San Francisco, Calif.
Filed May 14, 1945. Serial No. 483,300. PUBLISHED OCTOBER 9, 1945. Class 23.

418,372. SCARE AWAY SALUTES FOR USE IN SCARING AWAY VICIOUS ANIMALS. HITT FIREWORKS COMPANY, Seattle, Wash.
Filed May 14, 1945. Serial No. 483,319. PUBLISHED OCTOBER 9, 1945. Class 9.

418,373. SOAPLESS DETERGENT. THE F-R CORPORATION, New York, N. Y.
Filed May 15, 1945. Serial No. 483,368. PUBLISHED OCTOBER 9, 1945. Class 4.

418,374. WHEAT FLOUR. SOUTHEASTERN MILLS, INC., Rome, Ga.
Filed May 16, 1945. Serial No. 483,454. PUBLISHED OCTOBER 9, 1945. Class 46.

418,375. ENAMELED METAL TABLE AND COOKING HOLLOWARE. "COLOS" INTERNATIONAL COMPANY FOR COMMERCE AND INDUSTRY, INC., New York, N. Y.
Filed May 17, 1945. Serial No. 483,467. PUBLISHED OCTOBER 9, 1945. Class 13.

418,376. SOAPLESS CLEANING COMPOUND. DIR-KLEEN COMPANY, Chicago, Ill.
Filed May 21, 1945. Serial No. 483,609. PUBLISHED OCTOBER 9, 1945. Class 4.

418,377. EPHEDRINE CONTAINING PREPARATION FOR RELIEF OF ASTHMA. VITAMIN-ERO CO., INC., New York, N. Y.
Filed May 21, 1945. Serial No. 483,639. PUBLISHED OCTOBER 9, 1945. Class 6.

418,378. CAPSULES FOR TREATMENT OF COLDS. BRUNSWIG DRUG COMPANY, also doing business as Angelus Laboratories, Los Angeles, Calif.
Filed May 22, 1945. Serial No. 483,651. PUBLISHED OCTOBER 2, 1945. Class 6.

418,379. AIRPLANES OF ALL KINDS AND STRUCTURAL PARTS THEREOF. BEECH AIRCRAFT CORPORATION, Wichita, Kans.
Filed May 31, 1945. Serial No. 484,009. PUBLISHED OCTOBER 9, 1945. Class 19.

418,380. FACE POWDER, HAND CREAM, LIPSTICK, AND PERFUME. CONSOLIDATED COSMETICS, Chicago, Ill.
Filed May 31, 1945. Serial No. 484,010. PUBLISHED OCTOBER 9, 1945. Class 6.

418,381. VITAMIN FOOD SUPPLEMENT. BORIS TH. SOKOLOFF, Bloomfield, N. J.
Filed May 31, 1945. Serial No. 484,038. PUBLISHED OCTOBER 2, 1945. Class 6.

418,382. PROTECTIVE FLOOR COATINGS IN LIQUID FORM FOR THE WATERPROOFING AND THE PRESERVING OF FLOOR SURFACES AND THE LIKE. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 1, 1945. Serial No. 484,067. PUBLISHED OCTOBER 2, 1945. Class 16.

418,383. FERROUS METAL ALLOY. N. A. WOODWORTH COMPANY, Ferndale, Mich.
Filed June 1, 1945. Serial No. 484,069. PUBLISHED OCTOBER 2, 1945. Class 14.

418,384. MERCURIAL DIURETICS. CAMPBELL PRODUCTS, INC., New York, N. Y.
Filed June 5, 1945. Serial No. 484,160. PUBLISHED SEPTEMBER 25, 1945. Class 6.

418,385. ALKANOLAMINE CARBONATE POLYMERS. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo.
Filed June 6, 1945. Serial No. 484,209. PUBLISHED OCTOBER 2, 1945. Class 6.

418,386. CANNED FRUITS AND VEGETABLES. BAILEY-PITTER COMPANY, San Francisco, Calif.
Filed June 7, 1945. Serial No. 484,227. PUBLISHED OCTOBER 9, 1945. Class 46.

418,387. LINIMENT. RALPH J. WALKER, doing business as Walker's Medical Arts Pharmacy, Newport News, Va.
Filed June 7, 1945. Serial No. 484,284. PUBLISHED OCTOBER 2, 1945. Class 6.

418,388. MINERAL OIL EMULSION FOR RELIEF OF CONSTIPATION. RALPH J. WALKER, doing business as Walker's Medical Arts Pharmacy, Newport News, Va.
Filed June 7, 1945. Serial No. 484,285. PUBLISHED OCTOBER 2, 1945. Class 6.

418,389. SULFATHIAZOLE PREPARATION FOR USE IN VETERINARY MEDICINE. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed June 8, 1945. Serial No. 484,310. PUBLISHED OCTOBER 2, 1945. Class 6.

418,390. SULFAGUANIDINE-NIACIN PREPARATION IN POWDER AND TABLET FORM FOR TREATING DISEASES OF LIVESTOCK. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed June 8, 1945. Serial No. 484,311. PUBLISHED OCTOBER 2, 1945. Class 6.

418,391. DOOR HANGERS AND DOOR TRACK. STABLINE INC., Harvard, Ill.
Filed June 8, 1945. Serial No. 484,329. PUBLISHED OCTOBER 9, 1945. Class 13.

418,392. SHAMPOO. THE KAKTINE COMPANY, Glendale, Calif.
Filed June 11, 1945. Serial No. 484,408. PUBLISHED OCTOBER 9, 1945. Class 6.

418,393. PREPARATION FOR INCREASING BLOOD FAT LEVELS AND ALTERING SEX CHARACTERISTICS IN POULTRY AND ANIMALS. WHITE LABORATORIES, INC., Newark, N. J.
Filed June 13, 1945. Serial No. 484,511. PUBLISHED OCTOBER 2, 1945. Class 6.

418,394. HYBRID SEED CORN AND FARM SEEDS GENERALLY. DAVENPORT SEED COMPANY, also doing business as Bruns Seed Company, Davenport, Iowa.
Filed June 15, 1945. Serial No. 484,560. PUBLISHED OCTOBER 9, 1945. Class 1.

418,395. SENSITIZED PHOTOGRAPHIC FILMS, STILL AND MOVIE CAMERAS AND PROJECTORS AND TRIPODS. EDWIN ELSTON, Los Angeles, Calif.
Filed June 18, 1945. Serial No. 484,672. PUBLISHED OCTOBER 9, 1945. Class 26.

418,396. PHOTOGRAPHIC CHEMICALS. EDWIN ELSTON, Los Angeles, Calif.
Filed June 18, 1945. Serial No. 484,673. PUBLISHED OCTOBER 9, 1945. Class 6.

418,397. LIVER-IRON-THIAMIN PREPARATION FOR USE IN THE TREATMENT OF ANEMIA AND AS A GENERAL TONIC. H. W. KINNEY AND SONS, INC., Columbus, Ind.
Filed June 20, 1945. Serial No. 484,788. PUBLISHED OCTOBER 9, 1945. Class 6.

418,398. HAIR TONIC. CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y.
Filed June 21, 1945. Serial No. 484,824. PUBLISHED OCTOBER 2, 1945. Class 6.



418,399. HAIR TONIC. CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y.
Filed June 21, 1945. Serial No. 484,825. PUBLISHED OCTOBER 2, 1945. Class 6.

418,400. HAND CLEANERS. HAROLD ENGLEHART, Akron, Ohio.
Filed June 21, 1945. Serial No. 484,834. PUBLISHED OCTOBER 9, 1945. Class 4.

418,401. YARN SPUN FROM MIXTURES OF RAYON AND FUR, AND RAYON, FUR, AND WOOL. UNIQUE FIBERS, INC., New York, N. Y.
Filed June 22, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 484,921. PUBLISHED OCTOBER 9, 1945. Class 43.

418,402. U. S. P. WHITE MINERAL OIL. L. SONNEBORN SONS, INC., New York, N. Y.
Filed June 23, 1945. Serial No. 484,979. PUBLISHED OCTOBER 9, 1945. Class 6.

418,403. DRAIN VALVES FOR FLUID PRESSURE APPARATUS. BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY, Elyria, Ohio.
Filed June 25, 1945. Serial No. 485,000. PUBLISHED OCTOBER 9, 1945. Class 13.

418,404. CANDY. THE EUCLID UNDERWRITING CORPORATION, Brooklyn, N. Y.
Filed July 10, 1945. Serial No. 485,634. PUBLISHED OCTOBER 9, 1945. Class 46.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)]

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

418,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE H. D. LEE CO. INC., Kansas City, Mo. Filed Aug. 16, 1943. Serial No. 462,771.

Betty Lee

FOR A SKIN LOTION.
Claims use since July 26, 1943.

418,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CRAMER CHEMICAL CO., Gardner, Kans. Filed Sept. 6, 1943. Serial No. 463,245.

Cramer

FOR CHEMICAL AND PHARMACEUTICAL PREPARATIONS—NAMELY, ATHLETIC AND RUB-DOWN LINIMENT PREPARATIONS; SMELLING SALTS; AN EFFERVESCENT ALKALINE GRANULE COMPOUND; LIQUID GERMICIDE PREPARATIONS; LIQUID EYE WASH AND GARGLING PREPARATIONS; LAXATIVE TABLETS; SALT TABLETS; A FUNGICIDAL FOOT OINTMENT; A HAIR OIL AND A HAIR DRESSING; A HAND LOTION AND AN AFTER-SHAVING LOTION; A LIQUID DENTIFRICE; A SHAMPOO PREPARATION; ALKALINE POWDER FOR INTERNAL USE TO RELIEVE SOUR STOMACH; A BENZOIN COMPOUND; AN ABSORBENT POWDER FOR EXTERNAL USE; AN INHALANT OINTMENT; AN ANTISEPTIC OINTMENT; ANALGESIC BALM OINTMENT; AN OLEO RESIN PEPPER AND TURPENTINE OINTMENT; A POWDERED ROSIN MIXTURE FOR EXTERNAL USE AS A DUSTING POWDER; A LIQUID PREPARATION FOR EXTERNAL USE IN APPLYING ADHESIVE TAPE TO SKIN; AND A LIQUID PREPARATION FOR USE IN THE REMOVAL OF ADHESIVE TAPE.
Claims use since Aug. 10, 1943.

418,407. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TRANSCONTINENTAL & WESTERN AIR, INC., Kansas City, Mo. Filed Jan. 3, 1944. Serial No. 466,297.

Flight Products

FOR WEIGHT AND BALANCE COMPUTING APPARATUS FOR USE IN THE LOADING OF AIRPLANES IN ACCORD WITH BALANCE REQUIREMENTS IN DISTRIBUTION OF WEIGHT OF LOAD, AND COMPRISED OF CHARTS, HOLDERS THEREOF AND TEMPLATES FOR USE THEREWITH.
Claims use since Oct. 26, 1943.

418,408. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TRANSCONTINENTAL & WESTERN AIR, INC., Kansas City, Mo. Filed Jan. 10, 1944. Serial No. 466,470.

Flight Products
DIVISION OF T.W.A.

FOR WEIGHT AND BALANCE COMPUTING APPARATUS FOR USE IN THE LOADING OF AIRPLANES IN ACCORD WITH BALANCE REQUIREMENTS IN DISTRIBUTION OF WEIGHT OF LOAD, AND COMPRISED OF CHARTS, HOLDERS THEREOF AND TEMPLATES FOR USE THEREWITH.
Claims use since Oct. 26, 1943.

418,409. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TANEY SALES, INC., New York, N. Y. assignor to Banner Distributors, Inc., Brooklyn, N. Y., a corporation of New York. Filed Mar. 25, 1944. Serial No. 468,687.

PINE-O-WICK

FOR DEODORANT TO ABSORB HOUSEHOLD ODORS FOR USE IN KITCHENS, BATHROOMS, CLOSETS, SICK ROOMS, SMOKY ROOMS AND REFRIGERATORS.
Claims use since Mar. 3, 1944.

---

418,410. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CRANE PACKING COMPANY, Chicago, Ill. Filed Mar. 30, 1944. Serial No. 468,836.

JOHN CRANE

FOR PACKING HOOKS RESEMBLING AN AUGER WITH A FLEXIBLE SHAFT FOR THE REMOVAL OF PACKING FROM STUFFING BOXES; AND FOR ROTARY CONDENSER TUBE CLEANERS, FOR INSERTION IN AND CLEANING CONDENSER TUBES; AND FOR INSERT EXTRACTOR TOOLS, FOR REMOVING INSERTS FROM CONDENSER TUBES.
Claims use in applicant's business to packing hooks resembling an auger with a flexible shaft for the removal of packing from stuffing boxes, since 1934; to rotary condenser tube cleaners for insertion in and cleaning condenser tubes, since 1942; and to insert extractor tools for removing inserts from condenser tubes, since 1942.

---

418,411. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE GRASSO & SON, Galveston, Tex. Filed June 24, 1944. Serial No. 471,601.

GRASSO BRAND

FOR FRESH FROZEN SHRIMP.
Claims use since Mar. 1, 1944.

418,412. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LINCOLN ENGINEERING COMPANY, St. Louis, Mo. Filed July 24, 1944. Serial No. 472,569.

Lub-Unit

FOR INJECTORS FOR FEEDING LUBRICANTS TO BEARINGS, THE INJECTORS BEING MOUNTED AS ACCESSORIES TO THE MACHINES ON WHICH THE BEARINGS ARE LOCATED.
Claims use since July 8, 1944.

---

418,413. (CLASS 12. CONSTRUCTION MATERIALS.) THE RUBEROID CO., Boundbrook, N. J., and New York, N. Y. Filed Sept. 12, 1944. Serial No. 474,136.

AIR-VENT

FOR ASPHALT FELT.
Claims use since Sept. 1, 1944.

---

418,414. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM DOMINIC MARTINEAU, doing business as Martineau Polish-Wax Company, Elisabethton, Tenn. Filed Sept. 22, 1944. Serial No. 474,491.

Martineau's WAX

FOR LIQUID POLISH-WAX FOR CLEANING AND POLISHING FURNITURE, AUTOMOBILES, HARDWOOD FLOORS, LINOLEUM AND OTHER SURFACES.
Claims use since Aug. 12, 1944.

---

418,415. (CLASS 39. CLOTHING.) SCHOBLE HATS, INC., Philadelphia, Pa. Filed Oct. 18, 1944. Serial No. 475,895.

LEAF LITE by SCHOBLE

FOR MEN'S HATS.
Claims use since 1933.



418,416. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Nov. 14, 1944. Serial No. 476,452.

MASTICGLAZE

FOR PERMANENTLY PLASTIC COMPOUND FOR USE AS A PUTTY SUBSTITUTE IN THE GLAZING OF WINDOWS.
Claims use since Oct. 25, 1944.

---

418,417. (CLASS 19. VEHICLES.) GRIFFITH ANNESLEY, doing business as Diamoloy Tool Company, New York, N. Y. Filed Nov. 15, 1944. Serial No. 476,455.

ANNESLEY

FOR PROPELLERS, INCLUDING FIXED AND CONTROLLABLE PITCH, AND PROPELLER HUBS AND PARTS THEREOF.
Claims use since June 15, 1944.

---

418,418. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) D. N. & E. WALTER & CO., San Francisco, Calif. Filed Jan. 4, 1945. Serial No. 478,263.

HOLLYWOOD HAND PAINT

FOR TEXTILE FABRIC PIECE GOODS HAVING HAND PRINTED DESIGNS THEREON, CONSISTING OF COTTON MATERIALS.
Claims use since Oct. 15, 1941.

---

418,419. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PATENT FABRIC CO., Boston, Mass. Filed Jan. 5, 1945. Serial No. 478,291.

Patent-Glo

FOR TREATED TEXTILE FABRICS USED AS A LEATHER SUBSTITUTE.
Claims use since Sept. 20, 1944.

---

418,420. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFAIT, INCORPORATED, Chicago, Ill. Filed Jan. 22, 1945. Serial No. 478,895.

TWO STAGE

FOR LIPSTICK.
Claims use since Jan. 10, 1944.

418,421. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JAMES F. MATTIMORE, doing business as Montrose Products and Montrose Products Co., Worcester, Mass. Filed Feb. 16, 1945. Serial No. 479,889.

Montrose

FOR ELECTRICAL CORD, INSULATED ELECTRIC WIRE AND FLEXIBLE TUBING FOR HOUSING ELECTRICAL WIRES.
Claims use since June 1944.

---

418,422. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo. Filed Feb. 26, 1945. Serial No. 480,225.

COLUMBIAN

FOR ELECTRIC SWITCH CABINETS; ELECTRIC KNOCKOUT BOXES; AND TRANSFORMER CABINETS.
Claims use since on or about June 1, 1941.

---

418,423. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX AMS, INC., New York, N. Y. Filed Apr. 2, 1945. Serial No. 481,600.

CREAM OF HONEY

FOR HONEY.
Claims use since the year 1920.

---

418,424. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ELECTRIC SPRAYIT CO., Sheboygan, Wis. Filed Apr. 2, 1945. Serial No. 481,618.

SANDIT

FOR MOTOR OPERATED FLOOR POLISHING AND SMOOTHING MACHINES AND PARTS THEREOF.
Claims use since May 7, 1940.

---

418,425. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ELECTRIC SPRAYIT CO., Sheboygan, Wis. Filed Apr. 2, 1945. Serial No. 481,619.

SHAKIT

FOR MOTOR OPERATED VIBRATORS FOR SHAKING FLUID CONTAINERS AND THE LIKE TO AGITATE THE CONTENTS THEREOF.
Claims use since Oct. 3, 1940.

418,426. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIEDMONT MILLS, INC., Lynchburg, Va. Filed Apr. 20, 1945. Serial No. 482,390.

HILL CITY

FOR WHEAT FLOUR.
Claims use since 1930.

---

418,427. (CLASS 39. CLOTHING.) STELNER BROS. INC., New York, N. Y. Filed Apr. 21, 1945. Serial No. 482,448.

Jeri Leer

FOR BELTS FOR OUTER WEAR, DRESSES, WOMEN'S AND CHILDREN'S COATS AND SUITS.
Claims use since September 1943.

---

418,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROYAL BARBERS AND BEAUTICIANS SUPPLY COMPANY, Philadelphia, Pa. Filed May 14, 1945. Serial No. 483,347.




The picture of the girl is fanciful.
FOR LEMON CLEANSING AND BLEACHING CREAM, DUAL PURPOSE CLEANSING CREAM, POWDER BASE VANISHING CREAM, SKIN BALM, INSTANT DEODORANT CREAM, OIL SHAMPOO, PRESSING OILS, CURLING WAX, OLIVE OIL HAIR POMADE CREAM, SATIN GLOSSINE HAIR CREAM, DOUBLE STRENGTH OIL FOR LUBRICATING HAIR, DOUBLE STRENGTH WORKING OIL FOR MASSAGING SCALP, SCALP OIL, HAIR POMADES, FINGER-WAVING FLUID, PINE OIL, LIQUID SOAP SHAMPOO, TAR OIL SHAMPOO AND TAR POMADES.
Claims use since Mar. 1, 1937.

418,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDMUND BEATTIE LEWIS, Fremont, Nebr. Filed May 15, 1945. Serial No. 483,380.




The lining indicates the color purple.
FOR HOUSEHOLD DEODORANT.
Claims use since February 1944.

---

418,430. (CLASS 39. CLOTHING.) ROGERS PEET COMPANY, New York, N. Y. Filed May 24, 1945. Serial No. 483,741.

Rogers Peet Company

FOR MEN'S AND BOYS' OVERCOATS, SUITS, TROUSERS, WAISTCOATS, HATS, SWEATERS, MUFFLERS, NECKTIES, OUTER SHIRTS, UNDER SHIRTS, UNDERWEAR, PAJAMAS, BATHROBES, BEACHROBES, AND SHOES OF LEATHER.
Claims use since the latter part of 1925.

---

418,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES OF THE RITZ, INC., New York, N. Y. Filed June 23, 1945. Serial No. 484,936.

SO RED ROSE

FOR LIPSTICKS AND ROUGE.
Claims use since October 1939.

---

418,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. SONNEBORN SONS, INC., New York, N. Y. Filed June 28, 1945. Serial No. 485,168.

KLEAROL

FOR MEDICINAL WHITE MINERAL OIL.
Claims use since May 10, 1925.



418,433. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWEST CHEMURGY CO-OPERATIVE, Wenatchee, Wash. Filed July 10, 1945. Serial No. 485,647.

Wheat Sweet

FOR DEXTROSE.
Claims use since Apr. 7, 1944.

---

418,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed July 19, 1945. Serial No. 485,983.

ARDENA

SUNTAN OIL CAPS

FOR SUNTAN OIL LOTION IN CAPSULE FORM.
Claims use since Dec. 6, 1938.

---

418,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed July 27, 1945. Serial No. 486,347.

ARDENA
MOISTURE CREAM

FOR FACE AND BODY CREAMS.
Claims use since June 2, 1941.

---

418,436. (CLASS 43. THREAD AND YARN.) BEDFORD YARN CO., Boston, Mass. Filed July 27, 1945. Serial No. 486,349.

GOSSAMER-FLEECE

FOR WOOLEN YARNS.
Claims use since July 15, 1943.

---

418,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Aug. 3, 1945. Serial No. 486,678.

DERMA-SEC

FOR SKIN CREAM.
Claims use since February 1936.

418,438. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOPHIA L. MOOMAW, Corpus Christi, Tex. Filed Aug. 14, 1945. Serial No. 487,157.



The color lining on the drawing indicates the color orange.
FOR LINIMENT USED FOR RELIEF OF PAIN.
Claims use since Oct. 14, 1924.

---

418,439. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "PEAU D'OR" SALES CORPORATION, Miami, Fla. Filed Aug. 17, 1945. Serial No. 487,203.

FLORIDA TAN



The drawing is lined for gold.
FOR TOILET PREPARATIONS—NAMELY, SUN TAN OIL AND SUN TAN LOTION.
Claims use since Mar. 21, 1939.

---

418,440. (CLASS 31. FILTERS AND REFRIGERATORS.) DOLE REFRIGERATING COMPANY, Chicago, Ill. Filed Sept. 4, 1945. Serial No. 487,932.

DOLE

FOR REFRIGERATORS AND COLD PLATES USED IN REFRIGERATION, AND REFRIGERATOR PARTS.
Claims use since July 1927.

# TRADE-MARK REGISTRATIONS RENEWED

46,043. **DIAMOND BRAND.** LEATHER SHOES. Registered Sept. 5, 1905. PETERS SHOE CO. Re-renewed Sept. 5, 1945, to International Shoe Company, St. Louis, Mo., a corporation of Delaware. Class 39.

46,559. **REPRESENTATION OF THE EGYPTIAN SPHINX.** POWDERED PAINTS. Registered Sept. 26, 1905. W. H. KEMP CO., New York, N. Y. Re-renewed Sept. 26, 1945, to Hastings & Co., Philadelphia, Pa., a firm. Class 16.

46,764. **DELTABESTON.** INSULATED ELECTRICAL CONDUCTORS, AND ESPECIALLY ASBESTOS-COVERED INSULATED ELECTRICAL CONDUCTORS. Registered Oct. 10, 1905. D. & W. FUSE CO., Providence, R. I. Re-renewed Oct. 10, 1945, to General Electric Company, Schenectady, N. Y., a corporation of New York. Class 21.

47,658. **REPRESENTATION OF PEGASUS.** COTTON PIECE GOODS. Registered Nov. 14, 1905. MASSACHUSETTS COTTON MILLS, Lowell, Mass. Re-renewed Nov. 14, 1945, to Pepperell Manufacturing Company, Boston, Mass., a corporation of Massachusetts. Class 42.

47,788. **REPRESENTATION OF RED STRIPE EXTENDING LENGTHWISE OF THE THERMOMETER TUBE.** THERMOMETER-TUBES. Registered Nov. 21, 1905. BUFFALO DENTAL MANUFACTURING COMPANY, Buffalo, N. Y., a corporation of New York. Re-renewed Nov. 21, 1945. Class 26.

48,439. **D & W. ELECTRIC SAFETY-FUSES AND PARTS THEREOF AND MOUNTINGS AND INCLOSURES THEREFOR.** Registered Dec. 26, 1905. D. & W. FUSE CO., Providence, R. I. Re-renewed Dec. 26, 1945, to General Electric Company, Schenectady, N. Y. a corporation of New York. Class 21.

48,639. **REPRESENTATION OF A LAKE SCENE.** COTTON PIECE GOODS. Registered Jan. 9, 1906. MASSACHUSETTS COTTON MILLS, Lowell, Mass. Re-renewed Jan. 9, 1946, to Pepperell Manufacturing Company, Boston, Mass., a corporation of Massachusetts. Class 42.

48,899. **INGLUVIN.** PREPARATIONS FOR THE CURE OF INDIGESTION, DYSPEPSIA, SICK STOMACH, AND LIKE OR ALLIED AILMENTS. Registered Jan. 16, 1906. WILLIAM R. WARNER & CO., Philadelphia, Pa. Re-renewed Jan. 16, 1946, to William R. Warner & Co., Inc., New York, N. Y., a corporation of Delaware. Class 6.

48,951. **DR. BELL'S PINE-TAR-HONEY.** PREPARATION FOR TREATMENT OF COUGHS, COLDS, WHOOPING COUGH, AFFECTIONS AND SORENESS OF THE THROAT AND LUNGS, GRIP, BRONCHITIS, ASTHMA, INCIPIENT CONSUMPTION. Registered Jan. 16, 1906. THE E. E. SUTHERLAND MEDICINE CO., Paducah, Ky. Re-renewed Jan. 16, 1946, to Dr. Bell Medicine Co., Inc., New York, N. Y., a corporation of Delaware. Class 6.

49,086. **WATERBURY CHEMICAL CO. DES MOINES IA.** COD-LIVER OIL. Registered Jan. 23, 1906. WATERBURY CHEMICAL COMPANY, Des Moines, Iowa. Re-renewed Jan. 23, 1946, to Waterbury Chemical Company, Inc., New York, N. Y., a corporation of Delaware. Class 6.

49,137. **ELIXIR SALICYLIC COMP.** REMEDY FOR RHEUMATISM AND RHEUMATIC AFFECTIONS GENERALLY, GOUT, AND LUMBAGO. Registered Jan. 23, 1906. WILLIAM R. WARNER & CO., Philadelphia, Pa. Re-renewed Jan. 23, 1946, to William R. Warner & Co., Inc., New York, N. Y., a corporation of Delaware. Class 6.

49,187. **REPRESENTATION OF AN UPLIFTED ARM HOLDING A BOW.** PLAIN AND ORNAMENTAL BRAIDS, BINDINGS, AND TRIMMINGS. Registered Jan. 30, 1906. FLETCHER MANUFACTURING COMPANY. Re-renewed Jan. 30, 1946, to International Braid Company, Providence, R. I., a corporation of Massachusetts. Class 40.

49,240. **METROPOLITAN.** CLOTH SUITINGS FOR MEN AND BOYS. Registered Jan. 30, 1906. THOS. OAKES & CO. Re-renewed Jan. 30, 1946, to Thomas Oakes & Co., Inc., Bloomfield, N. J., a corporation of New Jersey. Class 42.

49,298. **MILE-END.** COTTON THREAD. Registered Jan. 30, 1906. THE CLARK MILE-END SPOOL COTTON CO., East Newark, N. J. Re-renewed Jan. 30, 1946, to The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Class 43.

49,886. **REPRESENTATION OF FOUR LETTERS H IN A CROSS DESIGN.** PORTLAND CEMENT. Registered Feb. 20, 1906. THE HELDENBERG CEMENT CO., Howe Cave, N. Y. Re-renewed Feb. 20, 1946, to North American Cement Corporation, New York, N. Y., a corporation of Delaware. Class 12.

49,921. **"STANDARD TOOL CO" AND DESIGN.** TWIST-DRILLS. Registered Feb. 20, 1906. THE STANDARD TOOL COMPANY, Cleveland, Ohio, a corporation of Ohio. Re-renewed Feb. 20, 1946. Class 23.

49,922. **"STANDARD TOOL CO" AND DESIGN.** MILLING-CUTTERS. Registered Feb. 20, 1906. THE STANDARD TOOL COMPANY, Cleveland, Ohio, a corporation of Ohio. Re-renewed Feb. 20, 1946. Class 23.

49,950. **"LUMEN" ETC. AND DRAWING.** NON-FERROUS ALLOYS. Registered Feb. 27, 1906. LUMEN BEARING COMPANY, Buffalo, N. Y., a corporation of New York. Re-renewed Feb. 27, 1946. Class 14.

49,960. **GRANITE FINISH.** VARNISHES. Registered Feb. 27, 1906. THE AMERICAN VARNISH COMPANY, Chicago, Ill. ,a corporation of Illinois. Re-renewed Feb. 27, 1946. Class 16.

49,961. **FLOORENE.** VARNISHES. Registered Feb. 27, 1906. THE AMERICAN VARNISH COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed Feb. 27, 1946. Class 16.

49,964. **M W.** HORSE-NAILS. Registered Feb. 27, 1906. UNION HORSE NAIL COMPANY, New Haven, Conn. and Chicago, Ill. Re-renewed Feb. 27, 1946, to The Capewell Manufacturing Company, Hartford, Conn., a corporation of Connecticut. Class 13.

49,982. **"STANDARD TOOL CO" AND DESIGN.** REAMERS. Registered Feb. 27, 1906. THE STANDARD TOOL COMPANY, Cleveland, Ohio, a corporation of Ohio. Re-renewed Feb. 27, 1946. Class 23.

49,983. **"STANDARD TOOL CO" AND DESIGN.** TAPS. Registered Feb. 27, 1906. THE STANDARD TOOL COMPANY, Cleveland, Ohio, a corporation of Ohio. Re-renewed Feb. 27, 1946. Class 23.

50,038. **UNIVERSAL.** LAWN-MOWERS. Registered Feb. 27, 1906. ADELBERT R. CASE. Re-renewed Feb. 27, 1946, to Blair Manufacturing Company, Springfield, Mass., a corporation of Massachusetts. Class 23.

201,234. **DISCOLOG.** MATHEMATICAL PUBLICATIONS—NAMELY, CHARTS AND TABULATIONS PERTAINING TO BUSINESS AND PUBLISHED FROM TIME TO TIME. Registered July 21, 1925. EDWARD T. FRANKEL, New York, N. Y. Renewed July 21, 1945, to Edward T. Frankel, Pittsburgh Pa. Class 38.





202,560. **ABRAHAM & STRAUS.** LINEN PIECE GOODS, TEXTILE BED SHEETS, PILLOWCASES, TABLECLOTHS, NAPKINS AND DOILIES, WOOLEN PIECE GOODS, COTTON PIECE GOODS, LACE IN THE PIECE, TEXTILE TABLE TOPS, TOWELS, WASH RAGS AND HANDKERCHIEFS, SILK PIECE GOODS, VELVET PIECE GOODS, RIBBONS IN THE PIECE, PERCALES IN THE PIECE, AND CERTAIN OTHER NAMED FABRICS. Registered Aug. 25, 1925. ABRAHAM & STRAUS, INC., New York, N. Y. Renewed Aug. 25, 1945, to Abraham & Straus, Inc., Brooklyn, N. Y., a corporation of New York. Classes 39 and 42.

202,661. **"IRISH BREAD" AND DRAWING.** BREAD. Registered Sept. 1, 1925. ARTHUR T. SANDISON, doing business as Ideal Bakery, Centralia, Wash. Renewed Sept. 1, 1945, to Arthur T. Sandison, Port Angeles, Wash. Class 46.

202,747. **"PROTEX" AND DESIGN.** SANITARY SEATS AND COVERS FOR COMMODES, BEDPANS, AND TOILETS. Registered Sept. 1, 1925. EVA MAUDE HOWELL, Danville, W. Va. Renewed Sept. 1, 1945. Class 37.

202,907. **JACK SPRAT.** CHEESE, CREAMERY BUTTER, OLEOMARGARINE, DRY LIMA BEANS, DRY LITTLE WONDER BEANS, AND DRY NAVY BEANS. Registered Sept. 8, 1925. WESTERN GROCER COMPANY, Marshalltown, Iowa, a corporation of Iowa. Renewed Sept. 8, 1945. Class 46.

202,977. **"THREE POINT" AND DESIGN.** WHEAT FLOUR. Registered Sept. 8, 1925. FEDERAL MILL & ELEVATOR CO., INC. Renewed Sept. 8, 1945, to Federal Mill, Inc., Lockport, N. Y., a corporation of New York. Class 46.

203,008. **FLANNO-KNIT.** GARMENT, KNOWN AS SPORT BLOUSE WORN BY MEN, WOMEN, AND CHILDREN, A COMBINATION OF FLANNEL MATERIAL AND KNITTED YARN. Registered Sept. 8, 1925. FLANNOCRAT MFG. CO. Renewed Sept. 8, 1945, to Rugby Knitting Mills, Inc., Buffalo, N. Y., a corporation of New York. Class 39.

203,495. **CACTUS.** REMEDY FOR CORNS AND CALLL. Registered Sept. 22, 1925. ETTA HIXSON, doing business as Cactus Remedy Co., Kansas City, Mo. Renewed Sept. 22, 1945, to Etta Hixson, doing business as Cactus Remedy Co., Palo Alto and San Francisco, Calif. Class 6.

203,942. **VIC.** CRÊPE BANDAGES (MEDICAL AND SURGICAL). Registered Sept. 29, 1925. GROUT AND COMPANY, LIMITED. Renewed Sept. 29, 1945, to Grout & Company, Limited, Great Yarmouth, England, a United Kingdom corporation. Class 44.

204,043. **BIG B.** WHEAT MIDDLINGS. Registered Oct. 6, 1925. MOSELEY & MOTLEY MILLING CO., Rochester, N. Y. Renewed Oct. 6, 1945, to Federal Mill, Inc., Lockport, N. Y., a corporation of New York. Class 46.

204,179. **LA JACEE.** PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, EAU DE COLOGNE, LOTION FOR THE SKIN AND HAIR, BRILLIANTINE, BATH SALTS, ROUGES, LIP STICKS, POWDER COMPACTS. Registered Oct. 13, 1925. COTY, INC., Wilmington, Del., and New York, N. Y. Renewed Oct. 13, 1945, to Coty, Inc., New York, N. Y., a corporation of Delaware. Class 6.

204,265. **"ROBT. BURNS" AND DRAWING.** CIGARS. Registered Oct. 13, 1925. GENERAL CIGAR CO., INC., New York, N. Y., a corporation of New York. Renewed Oct. 13, 1945. Class 17.

204,440. **MONOPOL.** WATCHES, WATCHCASES, AND PARTS OF WATCHES. Registered Oct. 20, 1925. A. WITTNAUER CO. Renewed Oct. 20, 1945, to Longines-Wittnauer Watch Co. Inc., New York, N. Y., a corporation of New York. Class 27.

204,511. **"OTTO STAHL'S" ETC. AND DESIGN.** MEATS AND MEAT PRODUCTS—NAMELY, FRANKFURTERS, BOLOGNAS, SAUSAGES, PORK SAUSAGES, WURST, BLOOD PUDDING, BLOOD PUDDING WITH TONGUE, HEAD CHEESE, LIVER, HAM BOLOGNA, CERVELAT, SALAMI, BACON, HAM, MEAT LOAF, TONGUE ROULADE, CHICKEN ROULADE, MOSAIC ROULADE, METT WURST, TEA WURST, BOCK WURST, AND CERTAIN OTHER NAMED MEATS. Registered Oct. 20, 1925. OTTO STAHL, INC., New York, N. Y. Renewed Oct. 20, 1945, to Stahl-Meyer, Inc., Brooklyn, N. Y., a corporation of New York. Class 46.

204,512. **"OTTO STAHL'S" ETC. AND DESIGN.** MEATS AND MEAT PRODUCTS—NAMELY, FRANKFURTERS, BOLOGNAS, SAUSAGES, PORK SAUSAGES, WURST, BLOOD PUDDING, BLOOD PUDDING WITH TONGUE, HEAD CHEESE, LIVER, HAM BOLOGNA, CERVELAT, SALAMI, BACON, HAM, MEAT LOAF, TONGUE ROULADE, CHICKEN ROULADE, MOSAIC ROULADE, METT WURST, TEA WURST, BOCK WURST, AND CERTAIN OTHER NAMED MEATS. Registered Oct. 20, 1925. OTTO STAHL, INC., New York, N. Y. Renewed Oct. 20, 1945, to Stahl-Meyer, Inc., Brooklyn, N. Y., a corporation of New York. Class 46.

204,870. **VALREX.** PETROLEUM AND PRODUCTS OF PETROLEUM, WITH OR WITHOUT ADMIXTURE OF OTHER MATERIALS, FOR ILLUMINATING, HEATING, POWER, BURNING, LUBRICATING, GREASING, SOLVENT, SEALING, WAXING, WATERPROOFING, COATING, RUST PREVENTING, SURFACE PRESERVING, AND TEMPERING. Registered Oct. 27, 1925. STANDARD OIL COMPANY OF NEW YORK. Renewed Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York. Class 15.

204,880. **TUREX.** PETROLEUM AND PRODUCTS OF PETROLEUM, WITH OR WITHOUT ADMIXTURE OF OTHER MATERIALS, FOR ILLUMINATING, HEATING, POWER, BURNING, LUBRICATING, GREASING, SOLVENT, SEALING, WAXING, WATERPROOFING, COATING, RUST PREVENTING, SURFACE PRESERVING, AND TEMPERING. Registered Oct. 27, 1925. STANDARD OIL COMPANY OF NEW YORK. Renewed Oct. 27, 1945, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York. Class 15.

205,172. **"OAKWOOD" AND DRAWING.** SHEETS, PILLOWCASES, AND PIECE GOODS OF LINEN, COTTON, CANVAS, AND SAILCLOTH. Registered Nov. 3, 1925. THE LAMPORT MFG. SUPPLY CO., INC. Renewed Nov. 3, 1945, to The Lamport Company, Inc., New York, N. Y., a corporation of New York. Class 42.

205,848. **GALVAWEAVE.** WIRE FENCE. Registered Nov. 17, 1925. PAGE STEEL & WIRE COMPANY, Adrian, Mich., and Bridgeport, Conn. Renewed Nov. 17, 1945, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Class 13.

206,244. **ACID ALKA AQUA.** BITUMINOUS COMPOUND FOR THE PROTECTION OF METAL AGAINST CORROSION. Registered Nov. 24, 1925. QUIGLEY FURNACE SPECIALTIES COMPANY, INC. Renewed Nov. 24, 1945, to Quigley Company, Inc., New York, N. Y., a corporation of New York. Class 12.

206,578. **SUNDY-MONDY.** BOYS' SUITS, INCLUDING COATS, VESTS, AND TROUSERS. Registered Dec. 8, 1925. THE HUB, Baltimore, Md., a corporation of Maryland, also doing business as The Hecht Company, Washington, D. C. Renewed Dec. 8, 1945. Class 39.

206,812. **"TOUJOURS MOI" ETC. AND DRAWING.** TOILET POWDER. Registered Dec. 8, 1925. JAY THORPE, INC. Renewed Dec. 8, 1945, to Parfums Corday, Inc., New York, N. Y., a corporation of New York. Class 6.

207,124. **PROTECTOR.** MEN'S SHOES OF LEATHER. Registered Dec. 22, 1925. INTERNATIONAL SHOE COMPANY, St. Louis, Mo., a corporation of Delaware. Renewed Dec. 22, 1945. Class 39.

207,324. **"SQUARE" AND DESIGN.** PINEAPPLES IN THEIR NATURAL STATE. Registered Dec. 29, 1925. PALO ALTO ORCHARDS COMPANY, South Easton, Mass. Renewed Dec. 29, 1945, to Palo Alto Orchards Company, Boston, Mass., a corporation of Massachusetts. Class 46.

207,365. **REPRESENTATION OF A BLUE BAND.** SMOKED MEATS—NAMELY, HAMS. Registered Dec. 29, 1925. F. A. FERRIS & COMPANY, New York, N. Y. Renewed Dec. 29, 1945, to Stahl-Meyer, Inc., Brooklyn, N. Y., a corporation of New York. Class 46.

207,583. **THE HIGH SCHOOL TEACHER.** PERIODICAL PUBLICATIONS. Registered Jan. 5, 1926. THE HIGH SCHOOL TEACHER COMPANY, Blanchester, Ohio. Renewed Jan. 5, 1946, to Scholastic Corporation, New York, N. Y., a corporation of Pennsylvania. Class 38.

207,848. **IT PAYS.** PREPARED STOCK FEED. Registered Jan. 12, 1926. MOORMAN MANUFACTURING COMPANY, Quincy, Ill., a corporation of Illinois. Renewed Jan. 12, 1946. Class 46.

208,061. **PAVIE.** ROUGE. Registered Jan. 19, 1926. COTY, INC., Wilmington, Del., and New York, N. Y. Renewed Jan. 19, 1946, to Coty, Inc., New York, N. Y., a corporation of Delaware. Class 6.

208,062. **BRUGNON.** ROUGE. Registered Jan. 19, 1926. COTY, INC., Wilmington, Del., and New York, N. Y. Renewed Jan. 19, 1946, to Coty, Inc., New York, N. Y., a corporation of Delaware. Class 6.

208,326. **HONEYMAID.** CRACKERS AND CAKES. Registered Jan. 26, 1926. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Renewed Jan. 26, 1946, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Class 46.

208,427. **SERTO.** CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, TOMATO SAUCE, AND OLIVE OIL. Registered Feb. 2, 1926. SCARAMELLI & COMPANY, INCORPORATED, also doing business as Serto Packing Co., New York, N. Y., a corporation of New York. Renewed Feb. 2, 1946. Class 46.

208,710. **REPRESENTATION OF A PLAID AND THISTLE DESIGN.** MALT BEVERAGES. Registered Feb. 9, 1926. LIEBMANN BREWERIES, INC., Brooklyn, N. Y., a corporation of New York. Renewed Feb. 9, 1946. Class 48.

208,877. **"LAND O'COTTON" AND DRAWING.** WHEAT FLOUR. Registered Feb. 9, 1926. THE LOUDONVILLE MILLING COMPANY, Loudonville, Ohio, a corporation of Ohio. Renewed Feb. 9, 1946. Class 46.

209,075. **SUPERRENCH.** WRENCHES. Registered Feb. 16, 1926. J. H. WILLIAMS & CO., Buffalo, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 23.

209,087. **LUCKY DAY.** APRONS. Registered Feb. 16, 1926. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 39.

209,091. **LAUREN LOTION.** LOTION FOR USE ON CHAPPED HANDS AND FACE AND AFTER SHAVING. Registered Feb. 16, 1926. THE NONSPI COMPANY, Kansas City, Mo. Renewed Feb. 16, 1946, to The Nonspi Company, New York, N. Y., a corporation of Missouri. Class 6.

209,130. **RAVEN.** COAL. Registered Feb. 16, 1926. RAVEN RED ASH COAL CO., INC., Red Ash, Va. Renewed Feb. 16, 1946, to Raven Red Ash Coal Co., Inc., Raven, Va., and Beckley, W. Va., a corporation of Virginia. Class 1.

209,264. **GRAD.** UNDERWEAR OF KNITTED AND TEXTILE FABRICS. Registered Feb. 16, 1926. CLUETT, PEABODY & CO., INC., Troy, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 39.

209,340. **TUDOR.** COLLARS. Registered Feb. 23, 1926. CLUETT, PEABODY & CO., INC., Troy, N. Y., a corporation of New York. Renewed Feb. 23, 1946. Class 39.

209,353. **BLUE WING.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Feb. 23, 1926. FULLERTON MUTUAL ORANGE ASSOCIATION, Fullerton, Calif., a corporation of California. Renewed Feb. 23, 1946. Class 46.

209,452. **MIST THE SUPER-CLEANER.** CLEANING COMPOUND IN THE FORM OF A GRANULAR POWDER USED IN WATER AND ADAPTED FOR GENERAL CLEANING PURPOSES. Registered Feb. 23, 1926. ALBERTA MILLER, doing business as Wizard Products Co., Elizabethtown, Ky. Renewed Feb. 23, 1946, to The Grand Union Company, New York, N. Y., a corporation of Delaware. Class 4.

209,457. **VER-LAND.** TYPEWRITER PAPER. Registered Feb. 23, 1926. WILLIAM S. TUTTLE, doing business as Tuttle Law Print, Rutland, Vt. Renewed Feb. 23, 1946. Class 37.

209,458. **BON-ORA.** SOLUBLE POWDER EMPLOYED AS A DENTIFRICE, MOUTH WASH, AND THROAT GARGLE. Registered Feb. 23, 1926. JAMES HERMANS. Renewed Feb. 23, 1946, to Morgan-Sabalol Products, Inc., New York, N. Y., a corporation of New York. Class 6.

209,486. **FLORETTA.** FLORISTS' CRÊPE PAPER. Registered Feb. 23, 1926. THE TUTTLE PRESS COMPANY, Appleton, Wis., a corporation of Wisconsin. Renewed Feb. 23, 1946. Class 37.

209,494. **CHARMONT.** WOOLEN GOODS IN THE PIECE. Registered Feb. 23, 1926. WORUMBO MANUFACTURING COMPANY, Bath, Maine. Renewed Feb. 23, 1946, to Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine. Class 42.

209,509. **HOOSIER.** HORSE-POWERS; WINDLASSES; VISES; GRINDING MILLS FOR CEREALS, ETC.; TRANSMISSION GEARING, RELIEFS FOR PUMP PRESSURE; HYDROPNEUMATIC CYLINDERS, AIR CYLINDERS, WATER CYLINDERS; MOUNTINGS FOR PUMPS; MOUNTINGS FOR WINDMILLS; WORKING HEADS; PUMPING JACKS; INTERNAL-COMBUSTION ENGINES; AND CERTAIN OTHER NAMED ARTICLES OF MACHINERY. Registered Feb. 23, 1926. FLINT & WALLING MFG. COMPANY. Renewed Feb. 23, 1946, to Flint & Walling Manufacturing Co., Inc., Kendallville, Ind., a corporation of Indiana. Class 23.

209,546. **SOCIETY.** PEARL BUTTONS, SNAP FASTENERS, HOOKS AND EYES, PINS, SAFETY PINS, HAIRPINS, BIAS TAPE, DRESS SHIELDS, LINGERIE TAPE, THIMBLES NOT OF PRECIOUS METAL, AND COTTON TAPE. Registered Feb. 23, 1926. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Feb. 23, 1946. Class 40.

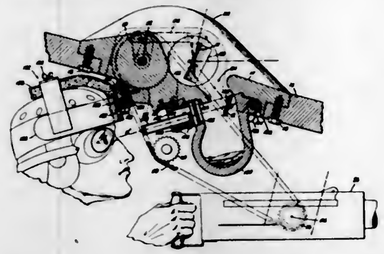
# PATENTS

## GRANTED DECEMBER 18, 1945

### 2,390,980
### GUN SIGHTING DEVICE

**Charles C. Bell, Marblehead, and William V. Goodhue, Ipswich, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**

**Application May 11, 1942, Serial No. 442,512**
**20 Claims. (Cl. 89—41)**



1. In a turret having a gun mounted for swinging movement about a trunnion axis, the combination of said gun with a periscopic viewing device fixed in the turret and having its line of sight in predetermined relation to the gun, said device comprising a first reflecting element outside the turret, carriers for said first reflecting element rotatable about an axis parallel to the trunnion axis of said gun, a second reflecting element, means operatively connected with said gun for rotating said carriers through an angle equal to one-half the angle of swinging movement of said gun about its trunnion axis, and means constructed and arranged to engage said first reflecting element only and to move it from within the turret into its carriers, said carriers being arranged to support said first reflecting element in target reflecting position during the movement of said reflecting element into its carriers.
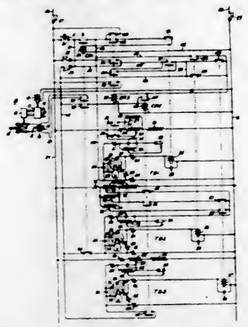
3. In a turret having a gun mounted for swinging movement about a trunnion axis extending transversely of the gun, the combination with said gun, of a periscopic viewing device comprising an exposed reflecting element which is mounted outside the turret for rotation about an axis parallel to the trunnion axis of said gun and adjacent to an opening in the turret wall, means for supporting a magazine of reflecting elements within the turret, a concealed reflecting element supported inside the turret in fixed relation to said opening, holders for said exposed reflecting element, means driven by the gun for rotating said holders, and means located within the turret for selecting a reflecting element from said magazine and inserting it into said holders.

### 2,390,981
### TIMING APPARATUS

**Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application September 30, 1942, Serial No. 460,239**
**21 Claims. (Cl. 250—27)**

1. Timing apparatus comprising a supply circuit, an electric discharge device having an anode, a cathode, and a control element, means for selectively applying to the control element of said electric discharge device a plurality of control voltages each of which becomes effective for rendering said electric discharge device conductive a predetermined time after its anode-cathode circuit is connected to said supply circuit, and means responsive to the flow of current through the anode-cathode circuit of said electric discharge

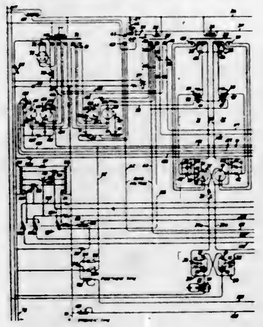


device for controlling the operation of said last mentioned means to change the connection of the control element of said electric discharge device from one of said control voltages to another of said control voltages, disconnecting the anode-cathode circuit of said electric discharge device from said supply circuit, and after a predetermined time delay again connecting the anode-cathode circuit to said electric discharge device to said supply circuit.

### 2,390,982
### ELECTRIC CONTROL CIRCUIT

**Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application September 30, 1942, Serial No. 460,240**
**22 Claims. (Cl. 250—27)**

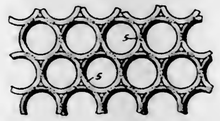


1. In combination, a supply circuit, a load circuit, electric translating apparatus interconnect-

ing said circuits including electric valve means, control means for controlling the conductivity of said electric valve means, means for energizing said control means with a unidirectional component of voltage to effect the energization of said load circuit for an interval of time, means for establishing the initial value of said unidirectional component of voltage to establish the initial root-mean-square value of current transmitted to said load circuit at a finite value, means for establishing the final value of said unidirectional component of voltage to establish the final root-mean-square value of current transmitted to said load circuit at a finite value, and means responsive to the attainment of said final value for terminating said period of energization.

---

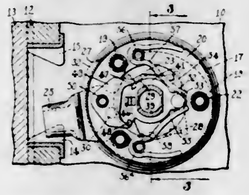
**2,390,983**
**SCREEN**
**Kenneth R. Bixby, Galesburg, Ill.**
**Application November 30, 1942, Serial No. 467,300**
**1 Claim. (Cl. 209—392)**



A commodity separating screen comprising a plurality of preformed rings arranged in edge to edge contact to form a structure of a length and breadth greatly in excess of the diameter of the individual rings, the contacting portions of adjacent rings being embedded one in the other and fused together to form a rigid plate-like structure in which the spaces between the openings in adjacent rings are relatively small.

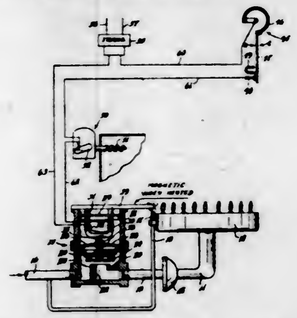
---

**2,390,984**
**LATCH FOR SCREEN DOORS AND THE LIKE**
**Herman Bloss, Shelton, Conn., assignor to The H. B. Ives Company, New Haven, Conn., a corporation of Connecticut**
**Application October 16, 1943, Serial No. 506,541**
**13 Claims. (Cl. 292—210)**



1. A door latch mechanism comprising a case, a latch member pivotally mounted in the case to swing about a horizontal axis and projecting from the case for engagement with a keeper, a latch actuating element carried by the case, said element being movable in one direction to swing the latch member upwardly and movable in the opposite direction to dog the latch member against movement, and a handle connected to said element to operate the latter, and means releasably holding said handle in a horizontal position when the latch member is engaged with the keeper and in a vertical position when the latch is dogged against movement.

**2,390,985**
**BURNER CONTROL SYSTEM**
**James B. Boyer, Washington, D. C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application December 2, 1942, Serial No. 467,596**
**16 Claims. (Cl. 158—117.1)**



11. In a burner system, a burner, ignition means therefor, a control device for said burner biased to a position preventing burner operation, and holding means for retaining said control device in a second position permitting burner operation, said holding means comprising a plurality of elements of magnetic material cooperating to form a magnetic circuit, one of said elements being of a material which is normally substantially non-magnetic but which becomes magnetic when heated above a predetermined temperature, said element being exposed to the heat of the ignition means.

---

**2,390,986**
**BOAT COVER**
**Frank D. Burns, Muskegon, Mich.**
**Application July 22, 1944, Serial No. 546,140**
**9 Claims. (Cl. 135—6)**



1. A boat cover comprising a flexible sheet adapted to overlie a boat and to be fastened at its edge portion to the boat, and resilient means engaging the cover in its central portion and adapted to engage a central part of the boat to hold the central portion of the cover elevated.

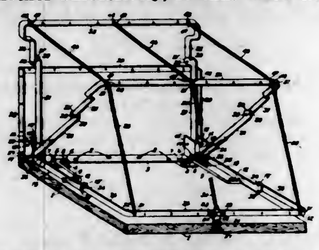
---

**2,390,987**
**FOLDING COVER FOR TYPEWRITING MACHINES OR THE LIKE**
**José González Cabrera, Habana, Cuba**
**Application January 24, 1944, Serial No. 519,570**
**3 Claims. (Cl. 45—68.1)**

1. A folding cover for typewriting machines or the like, composed of a supporting board for the machine, a hood body of foldable material fixed on a series of skeleton forms of rigid material, supporting means having elastic means urging them rearwardly to which the skeleton forms are pivotally connected, stop means limiting forward



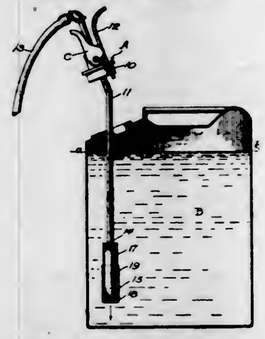
movement of the skeleton forms relatively to said supporting means, stop means fixed to the machine supporting board to limit to a vertical position the movement of the supporting means and elastic means connecting the skeleton forms to one another successively, so that when the hood



body is pulled to operative position and then released it moves upwardly and backwardly to uncover the machine, the elastic means and the supporting means acting automatically to cause said body to fold upon the skeleton forms to a position at the rear of the typewriting machine or the like.

---

**2,390,988**
**PROCESS OF DELEADING GASOLINE**
**George Calingaert, Harold Soroos, and Hymin Shapiro, Detroit, Mich., assignors to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development**
**Application March 20, 1944, Serial No. 527,364**
**7 Claims. (Cl. 196—44)**

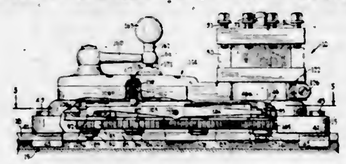


1. The process of deleading gasoline by adding stannic chloride to gasoline containing tetraethyl lead and separating the resultant precipitate.

---

**2,390,989**
**AUTOMATIC TOOL BLOCK**
**Secondo L. Casella, New York, N. Y., assignor to Morey Machinery Co., Inc., New York, N. Y., a corporation**
**Application April 15, 1943, Serial No. 483,099**
**8 Claims. (Cl. 29—49)**

1. A device of the character described comprising a base, a tool holder mounted for rotation on said base about a vertical axis, said tool holder having a plurality of angularly spaced sockets, a locking pin on said base adapted to selectively engage said sockets, a lever pivoted mediately the ends thereof on said base and having one arm engaging said locking pin, a vertical shaft rotatably mounted on said base, a cam on said shaft adapted to engage the other arm of said lever, means to rotate said shaft, a segmental gear on



said shaft, a gear fixed to the tool holder for rotation therewith, and gearing interposed between said segmental gear and the gear fixed to the tool holder.

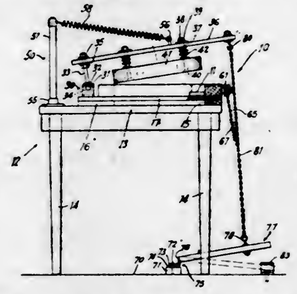
---

**2,390,990**
**PROCESS OF REFINING OIL AND FOR PRODUCING SOAP**
**Benjamin Clayton, Houston, Tex., assignor, by mesne assignments, to Refining, Unincorporated, a Texas partnership**
**Application August 15, 1941, Serial No. 407,081**
**12 Claims. (Cl. 260—425)**

1. The process of refining animal and vegetable oils, which comprises, subjecting a relatively dry mixture containing neutralized oil and soap stock to centrifugal separation in the presence of a hydrating agent containing a soap selected from the group consisting of rosin and naphthenic acid soaps.

---

**2,390,991**
**APPARATUS FOR MAKING SHOE SOLES**
**George Codish, New York, N. Y.**
**Application December 26, 1944, Serial No. 569,669**
**17 Claims. (Cl. 12—17)**



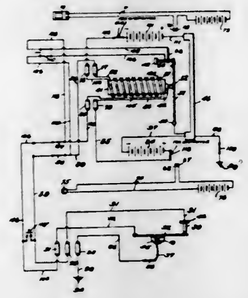
1. Apparatus of the character described comprising a table, a plate fixed to the table, a mold section fixed to the plate, a second mold section pivoted to the first section about a vertical axis, said mold sections having complementary cut-outs, together forming a mold cavity, a horizontal pivot pin on said table, a member pivoted to said horizontal pivot pin, an insert slidably mounted on said member, spring means interposed between the insert and said member, and said insert being movable into the mold cavity.

---

**2,390,992**
**SIGNALING SYSTEM**
**John H. Cook, Rock Island, Ill.**
**Application September 28, 1943, Serial No. 504,169**
**2 Claims. (Cl. 177—314)**

1. In a signal apparatus the combination with a normally open signal circuit, of an electro-

magnet having separate coils, an armature for the magnet positioned to close the signal circuit when the magnet is energized, an actuating element normally grounded, a normally open switch positioned for actuation by said element, said switch including a tongue and a contact cooperating with the tongue, an electrical connection between said contact and one end of one of the coils, a battery having its positive pole connected to the other end of said coil and its negative pole connected to the armature and to ground, an elec-



trical connection between the tongue and one end of the other coil, a second battery having its negative pole connected to the other end of said second coil, a grounded electrical connection between the positive pole of said second battery and the connection between the negative pole of the first battery and the armature, and means operated by the movement of the armature when its magnet is energized, for dividing the apparatus into two independent circuits each including one of the batteries and one of the coils.

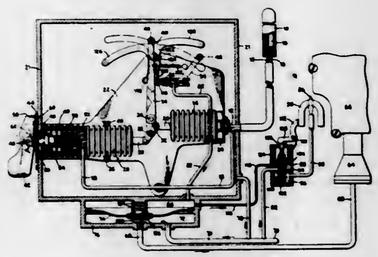
---

**2,390,993**

## TEMPERATURE CONTROL FOR REFRIGERATOR CARS

**Clarence A. de Giers, Forest Hills, and Arthur Wickesser, St. Albans, N. Y., assignors to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware**

**Application November 8, 1941, Serial No. 418,366**
**3 Claims. (Cl. 236—80)**



2. In apparatus useful for controlling temperature in a refrigerator car, in combination, a pair of bellows, a floating link differentially interconnecting said bellows, means causing change of length of one said bellows in accordance with change of temperature in the car, manually controllable means for changing the relative effective length of said bellows for adjusting the temperature to be maintained in the car, heating means for supplying heat to the car, and means under control of said link for controlling said heating means.

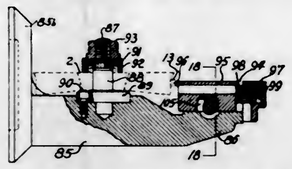
---

**2,390,994**

## METHOD OF AND APPARATUS FOR MAKING IMPELLER WHEELS

**Charles B. De Vlieg, Detroit, Mich.**

**Application August 18, 1941, Serial No. 407,287**
**43 Claims. (Cl. 29—23.5)**



1. In a method of manufacturing an impeller wheel from a circular blank to provide a plurality of closely positioned vanes emanating from a hub, each vane having its front and rear faces each composed in cross-section substantially at all points in its length of a curved portion and a plain portion tangential to the curved portion, which comprises: cutting the forward and rear curved portions of the vane with separate form milling cutters and rotating the blank as it is being cut to generate the milled surface lengthwise of the vane, and then cutting the forward and rear plain portions of the vane with additional milling cutters each of cylindrical form and simultaneously rotating the blank as it is being cut to generate the milled surface lengthwise of the vane and to integrate the finished milled surfaces.

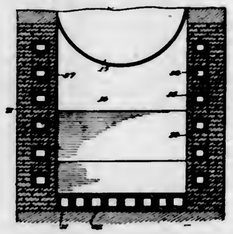
---

**2,390,995**

## FURNACE

**Ira W. Foltz, Chicago, Ill.**

**Application January 27, 1944, Serial No. 519,867**
**4 Claims. (Cl. 110—1)**



1. A furnace wall made of commercial bricks and having a conduit therein formed of a plurality of hollow rectangular blocks of uniform size made of refractory material, said conduit being entirely enclosed in the wall and the bricks on the inside of the wall adjacent to the blocks comprising a relatively thin layer covering the conduit which may be readily replaced without interfering with the conduit.



**2,390,996**

## PROCESS FOR THE COAGULATION OF CASTILLOA LATEX

**Tirey Foster Ford, Arlington, Va., assignor to the United States of America, as represented by the Secretary of Agriculture**

**No Drawing. Application August 31, 1943, Serial No. 500,649**
**2 Claims. (Cl. 260—821)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. A process for coagulating Castilloa latex comprising treating untreated Castilloa latex with dilute $NH_4OH$ in the ratio of about 15 parts of the latex to from ⅓ to 1 part of the hydroxide and then with about ⅓ to 1.3 part dilute HCl, and heating to facilitate coagulation of the rubber.

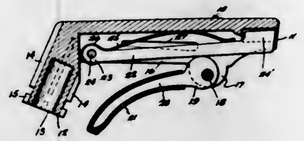
---

**2,390,997**

## HOLDER FOR ELECTRODES AND WELDING RODS

**Hardick F. Fuller, Portland, Oreg.**

**Application September 12, 1944, Serial No. 553,737**
**8 Claims. (Cl. 219—8)**



2. As a new article of manufacture and as a component part of an electrode-holder of the class described, an all-metal sheath-like unit comprising a longitudinal shank portion forming the sheath proper and including spaced parallel slotted side flanges having its outer end fashioned into a stationary electrode accommodating jaw, the opposite end of said unit being formed with a lateral cylindrical extension provided with a socket to accommodate a lead-in and provided on its exterior with radial circumferentially spaced spacing ribs, a lever having an eye at its inner end pivoted in the sheath between the side flanges, the lever being provided at its free end with a laterally projecting grooved head constituting a movable jaw and coacting with the first-named jaw, a flat spring having one end coiled around said eye, its intermediate portion bearing against the adjacent part of the sheath and its free end portion bearing against the adjacent outer end portion of said lever, said flanges being provided with outstanding parallel ears, and a cam eccentrically pivoted between said ears and provided with an operating handle, said cam being engageable with the adjacent edge portion of said lever in the manner and for the purposes described.

---

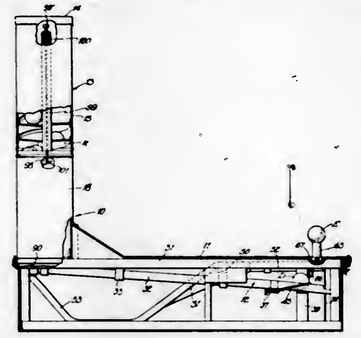
**2,390,998**

## AUTOMATIC GOLF BALL TEEING DEVICE

**Leonard Gale, Washington, D. C., assignor to Frederick Klein, New York, N. Y.**

**Application July 11, 1944, Serial No. 544,364**
**10 Claims. (Cl. 273—33)**

1. In a golf ball teeing device, a stationary inclined ball runway, a golf ball tee member normally disposed at the lower end of the runway to receive a golf ball as it rolls therefrom, a magazine for golf balls, gravity actuated means for delivering a golf ball from the magazine to the upper end of said runway, means responsive to the actuation of the gravity actuated means for raising the golf ball tee member to a raised tee position, and latch means operatively associated with the tee member and operatively responsive



to the weight of a ball supported thereby for securing the tee member in tee position upon its upward movement thereto.

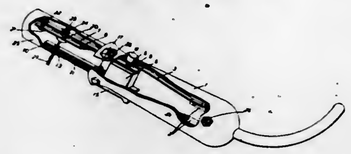
---

**2,390,999**

## JOINING OF WIRES, PARTICULARLY FINE WIRES USED IN THE MANUFACTURE OF ELECTRIC COILS

**Gilbert Gilliver, London, England, assignor to Standard Telephones and Cables Limited, London, England, a British company**

**Original application March 30, 1943, Serial No. 481,068. Divided and this application July 25, 1944, Serial No. 546,520. In Great Britain October 2, 1942**
**3 Claims. (Cl. 219—4)**



1. A device for joining wires by electric fuse welding including an electrode against which said wires to be welded are positioned to abut, means for supporting said electrode provided with a resilient mounting for the electrode thereon to be movable in the direction of the length of said wires, means for holding said wires against the pressure of said electrode, said holding means being positioned in constantly spaced relation to the movable electrode, means for connecting one side of an electric power supply to the electrode and means for connecting the other side of said power supply to said holding means.

---

**2,391,000**

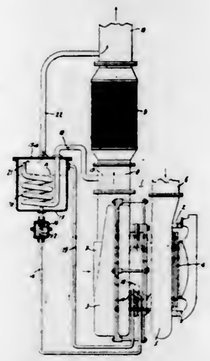
## LUBRICATING SYSTEM FOR AIRCRAFT SUPERCHARGERS

**Wayne H. Allen, Los Angeles, Calif., assignor to General Electric Company, a corporation of New York**

**Application March 16, 1942, Serial No. 434,793**
**3 Claims. (Cl. 184—6)**

1. The combination with a supercharger system for an aircraft including an air cooler on

the discharge side of the supercharger, of a lubricant tank, and conduit means connecting the tank above the lubricant therein to opposite sides



of said air cooler to bypass compressed heated air with regard to the cooler in order to heat lubricant in the tank.

---

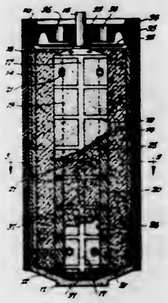
2,391,001

**SECONDARY BATTERY**

**Paul Arnoldi, Brighton, Ontario, Canada**

**Application September 9, 1941, Serial No. 410,155**

**1 Claim. (Cl. 136—7)**



A non-spillable secondary battery of the character described, comprising a tubular metal casing, a coating of active material applied to the interior of said casing to provide, with said casing, the negative electrode of said battery, a tubular central metal grid arranged coaxially within said casing in radially spaced relation thereto, said grid being made up of a plurality of coaxial axially spaced rings and axially extending spaced connecting bars to provide a plurality of openings extending therethrough and arranged the entire length and around the entire diameter of said grid, a body of active material arranged in each of said openings and forming, with said grid, a substantially cylindrical positive electrode of the battery, a filler of absorbent material containing absorbed electrolyte in suspension therein and contained within said positive electrode and within the annular space between said electrodes, said positive electrode being formed to provide a plurality of openings extending radially therethrough and providing the sole communication between the absorbed electrolyte within said positive electrode and the absorbed electrolyte surrounding said positive electrode thereby to render the inner and outer surfaces of said positive electrode effective, and end heads at the opposite ends of said casing and positive electrode.

---

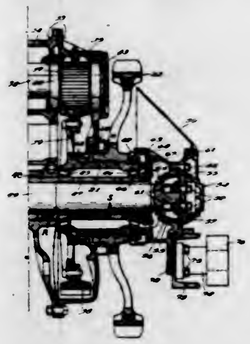
2,391,002

**FRAME AND DRAWBAR STRUCTURE FOR CRAWLER TRACTORS**

**David B. Baker, Riverside, and William O. Beckman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey**

**Application June 26, 1944, Serial No. 542,146**

**5 Claims. (Cl. 180—9.1)**



1. In a tractor propelled by endless treads at its opposite sides, a tractor frame including drive gear compartments at opposite sides thereof, coaxial pivot tubes respectively in said compartments, driver gears through which driving force is transmitted to said treads and respectively journaled on said tubes, and a transverse draw-bar rod mounted in said housings, and opposite end portions of said rod projecting through said tubes in spaced relation therewith to facilitate displacement of said end portions under the influence of a load strain transversely of the rod at its ends, without displacing said tubes and gears.

---

2,391,003

**CARBONATING APPARATUS**

**Wade W. Bowman, New York, N. Y., assignor to Frostidrink Inc., New York, N. Y., a corporation of New York**

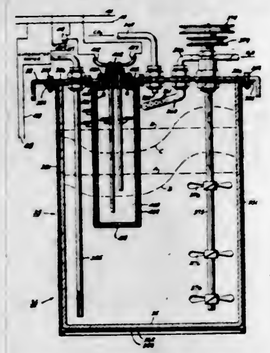
**Original application January 15, 1942, Serial No. 426,822. Divided and this application November 21, 1942, Serial No. 466,431**

**5 Claims. (Cl. 261—93)**

1. In a water carbonating device in combination a fluid container, a water supply inlet and a gas supply inlet, and a rotary agitator rotatable about a vertical axis and positioned eccentric to the center of the fluid mass in the container for creating a combined swirling and agitating action in said fluid mass, and means positioned in the container at a relatively quiescent and low



level locus in the swirl of fluid being agitated for controlling the supply of water through said



water inlet and for controlling the motivation of said agitator.

---

2,391,004

**PROCESS FOR REFINING BUTADIENE CONTAMINATED WITH MONOVINYLACETYLENE**

**Frederick W. Breuer, Haverford, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania**

**No Drawing. Application July 24, 1942, Serial No. 452,201**

**2 Claims. (Cl. 260—681.5)**

1. A process for refining butadiene in admixture with monovinylacetylene comprising subjecting said mixture to selective hydrogenation at a temperature from 23° C. to 110° C. and a pressure between 20 and 150 atmospheres in the presence of an active iron catalyst obtainable by treating an iron aluminum alloy with an alkaline solution to produce a residue of iron powder, and recovering said butadiene in a form less contaminated with monovinyl acetylene.

---

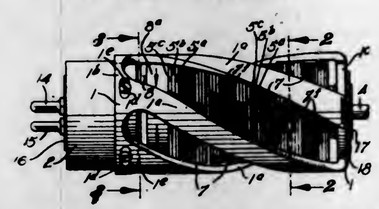
2,391,005

**ELECTRIC MOTOR**

**John C. Bryan, La Canada, Calif.**

**Application July 1, 1941, Serial No. 400,597**

**12 Claims. (Cl. 172—36)**



1. In an electric motor of the class described, a plurality of spaced helically disposed field members and a plurality of variously arranged segments provided with portions extending into close proximity with said field members, a plurality of solenoids in electro-magnetic relation with said field members and said segments, the winding of said solenoids being concentric with the axis of said motor.

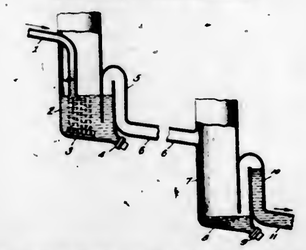
2,391,006

**TRANSPORT OF AQUEOUS EMULSIONS OF LIQUID EXPLOSIVES**

**George Bryce, West Kilbride, and Vernon Harcourt Williams, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**

**Original application September 2, 1941, Serial No. 409,322. Divided and this application September 19, 1942, Serial No. 459,008. In Great Britain September 2, 1940**

**3 Claims. (Cl. 23—252)**



1. An apparatus for transporting liquid comprising an explosive nitric ester, which apparatus comprises a plurality of open vessels positioned at descending levels, each vessel containing an inlet and an outlet, siphon means at the outlet of each vessel and conduits connecting the exterior of said siphon means to the inlet of the next vessel, the structure of said conduits, vessels, and outlets being characterized by the fact that the volume of siphon conduits from one vessel is greater than the volume of the effective siphoned height of liquid in that vessel in which the siphoning commences and that the corresponding effective volume of liquid in the vessel into which the conduit empties, nearly approaches the volume of the conduit, and the cross-sectional area of the conduit is such that the first vessel discharges at a greater rate than it fills.

---

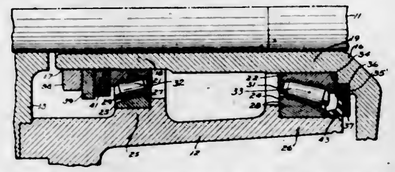
2,391,007

**RESILIENT LUBRICANT SEAL**

**Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio**

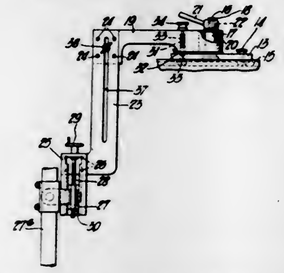
**Application June 12, 1944, Serial No. 539,819**

**3 Claims. (Cl. 286—7)**



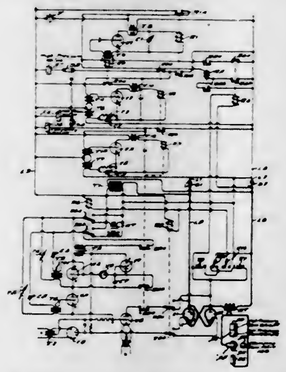
1. A fluid seal comprising an annular backing ring and an annular body of resilient material non-rotatably secured to said ring and extending axially therefrom, said body of resilient material comprising an annular base portion of substantial mass fully backed in a plane by said ring, and an axially deformable tapered annular portion of continuously decreasing cross-section outwardly of said base portion extending axially from said base portion and terminating in a narrow flat continuous sealing face lying in a plane parallel to the adjacent surface of said ring and having opposite sharp edges.

**2,391,008**
**TORCH SUPPORTING ARM FOR OXYACETYLENE CUTTING MACHINES**
**John Bucko, Gary, Ind.**
**Application April 5, 1943, Serial No. 481,903**
**3 Claims. (Cl. 248—283)**



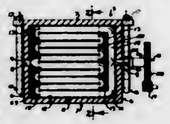
1. In an oxy-acetylene cutting machine of the class described having a rotatable member carried thereby for adjusting the cutting torch circularly in a horizontal plane, a downwardly extending member arranged on the outer end of said rotatable member, means for attaching selectively the upper end of the downwardly extending member securely to the outer end of the rotatable member, means arranged on the lower end of said downwardly extending member for supporting and holding the cutting torch, and identical means for attaching selectively the torch supporting means to the lower end of said downwardly extending member whereby the torch supporting means may be attached directly to the outer end of said rotatable member thereby dispensing with the use of said downwardly extending member.

**2,391,009**
**TIMING CONTROL SYSTEM**
**Cletus J. Collom, Detroit, Mich.**
**Application December 1, 1941, Serial No. 421,164**
**19 Claims. (Cl. 250—27)**



16. In a timing control system for controlling the connection between a work circuit and a source of power, starting means which after being initially actuated from a normally ineffective condition remains effective until reset, means operably responsive to said actuation of said starting means for initiating a flow of current to said work circuit and for terminating said flow of current, and means rendered effective by said termination for effecting said resetting.

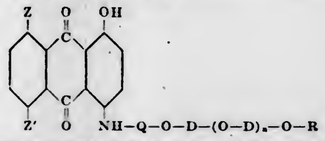
**2,391,010**
**DAMPER AND SHUTTER FOR REGULATING THE PASSAGE OF A MEDIUM**
**David Dalin, Sodertalje, Sweden**
**Application December 12, 1942, Serial No. 468,833**
**In Sweden September 15, 1941**
**5 Claims. (Cl. 126—285)**



5. An adjustable fluid cooled barrier for use in locations subjected to excessively high temperatures such as those prevailing in furnaces of steam boilers, comprising: a plurality of interconnected tubes collectively forming the barrier and providing fluid passages for the circulation of a fluid coolant to absorb and carry off heat from the walls of the barrier; means mounting the barrier for rocking adjustment about a fixed axis; inlet and outlet ducts for the fluid passages of the barrier extending from the barrier substantially at and in the direction of said fixed axis; two tubes of substantial length, each capable of withstanding high temperatures and pressures, one joined to the inlet duct and the other joined to the outlet duct so as to form extensions thereof, the ends of said two tubes remote from their junctures to the inlet and outlet ducts being fixed for attachment to feed and return lines and their portions between their ends being arranged convolutely about said fixed axis to provide resiliency enabling rocking adjustment of the barrier; and means for effecting rocking adjustment of the barrier against the resiliency of said two tubes.

**2,391,011**
**ANTHRAQUINONE COMPOUNDS**
**Joseph B. Dickey and John R. Byers, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application July 13, 1944, Serial No. 544,811**
**4 Claims. (Cl. 260—378)**

1. The anthraquinone compounds having the following general formula:

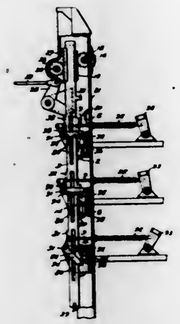


wherein $n$ represents a positive integer of from 1 to 2, Q represents a phenylene group, D represents a member selected from the group consisting of ethylene, trimethylene and propylene groups, R represents a member selected from the group consisting of hydrogen and an alkyl group containing from 1 to 2 carbon atoms, and Z and Z' each represents a member selected from the group consisting of hydrogen and a hydroxyl group.



**2,391,012**
**BOMB RELEASE**
**Lawrence J. Eyler, Dayton, Ohio, assignor to the United States of America, as represented by the Secretary of War**
**Application January 21, 1937, Serial No. 121,578**
**15 Claims. (Cl. 89—1.5)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. A multiple station bomb release comprising a release device at each station and actuable into cocked and uncocked positions, means at each station to retain the same in cocked position, each of said means including a slide pin and means supporting and guiding the pin for longitudinal movement and for bodily movement transversely of the pin, actuating means extending through the several stations, means to reciprocate the latter repeatedly through a definite path, a selector device likewise extending through the several stations, means to effect its advance step by step in a definite path in one direction, and permitting its return, the pin of each retaining means, when the latter is in noncocked position, lying outside of the path of the actuating means, but when moved into cocked position lying in the paths of the actuating means and the selector device, pin sears carried by said selector device and spaced, relative to the spacing between stations, to engage and move axially in succession the pin of each successive cocked station, stop means on the selector device, cooperating stop means associated with each retaining means, and disposed only when the latter is in cocked position, to stop the selector pin sear in position to hold the corresponding pin in its axially moved position, and tripping sears carried by the actuating means and engageable, upon reciprocation of the latter, with any axially moved pin, thereby to trip the corresponding retaining means and the release device.



15. A multiple station bomb rack having a release device at each station movable into cocked and uncocked positions, means at each station for retaining the release device in cocked position and capable of being tripped to free the release device for movement into uncocked position, said retaining means including a trip pin, electromechanical means for selectively releasing the stations and including a tripping member, and actuating mechanism operatively connected with the tripping member for moving the latter step by step past the stations and into engagement with the trip pins of the several retaining means in succession to trip the latter, and manual control means including a bar movable relatively to all stations and having cam openings embracing the several trip pins, said openings having surfaces operable in one position of the bar to lock the trip pins against tripping action and in another position of the bar to trip the said pins simultaneously and in an intermediate position of the bar to free the pins for tripping action by operation of the electro-mechanical means.

**2,391,013**
**PHYSIOLOGICALLY ACTIVE ALKALOIDS FROM ERYTHRINA SPECIES**
**Karl Folkers, Plainfield, and Frank Koniuszy, Elizabeth, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application July 3, 1940, Serial No. 343,854**
**16 Claims. (Cl. 260—236)**

1. A substance selected from the group of "liberated" alkaloids identical with the "liberated" alkaloids obtained from species of Erythrina containing such alkaloids, and consisting of the "liberated" alkaloidal fraction, the alkaloid erysodine which in its pure form has a melting point of about 202–205° C.; the alkaloid erysopine which in its pure form has a melting point of about 240–242° C.; the alkaloid erysocine which in its pure form has a melting point of about 160–162° C.; and the alkaloid erysovine which in its pure form has a melting point of about 177–179° C.

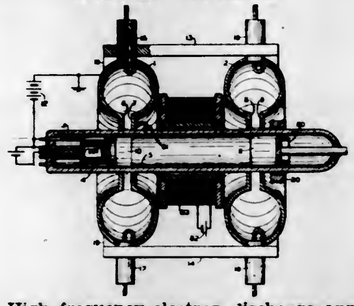
**2,391,014**
**ALKALOIDAL "FREE" FRACTION FROM SPECIES OF ERYTHRINA AND PROCESSES FOR ITS PRODUCTION**
**Karl Folkers, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application October 12, 1940, Serial No. 360,922**
**6 Claims. (Cl. 260—236)**

1. A product having the physiological activity of curare and consisting of the total chloroform-soluble "free" alkaloidal fraction obtained from species of Erythrina, and which is free from the "combined" alkaloids obtainable from such species in the form of esters of sulfoacetic acid and "liberated" alkaloids, and free from the "liberated" alkaloids obtainable by hydrolysis of the said "combined" alkaloids.

**2,391,015**
**ALKALOID AND PROCESSES FOR PRODUCING THE SAME**
**Karl Folkers, Plainfield, N. J., and John Shavel, Jr., Glendale, Long Island, N. Y., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**
**No Drawing. Application April 9, 1941, Serial No. 387,654**
**8 Claims. (Cl. 260—236)**

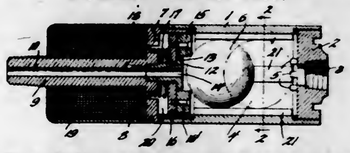
1. A substance selected from the group consisting of the alkaloid erysonine, which is identical with the alkaloid, having the same characteristics obtained from a species of erythrina and which has the empirical formula $C_{17}H_{19}NO_3$ and in its substantially pure form has a melting point of about 236–239° and the constant $(\alpha)_D^{28}=+285–288°$ in 5% aqueous hydrochloric acid and $(\alpha)_D=+272°$ in morpholine, and salts of said alkaloid.

2,391,016
**HIGH-FREQUENCY TUBE STRUCTURE**
Edward L. Ginzton, Rockville Centre, and William W. Hansen, Garden City, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application October 31, 1941, Serial No. 417,228
3 Claims. (Cl. 315—6)



1. High frequency electron discharge apparatus, comprising a tubular insulating envelope, a pair of tubular members coaxially mounted within said envelope, an electron-permeable grid supported in each of the adjacent ends of said members providing a narrow gap therebetween, a cathode adjacent one of said grids, a reflector electrode adjacent the other of said grids, a pair of conductive members substantially coplanar respectively with said grids and surrounding said envelope, conductive means connected to said members and defining therewith a toroidal cavity resonator, and a pair of tubular elements connected respectively to said coplanar members at the inner edges thereof and extending outwardly from said resonator and concentrically with respect to said first tubular members defining a capacitance between each of said last tubular elements and its corresponding tubular member.

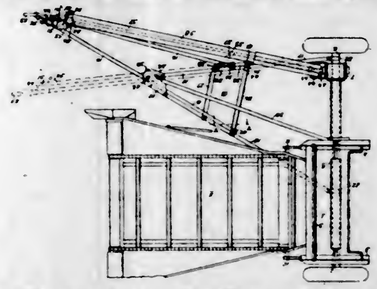
2,391,017
**BRAKE CONTROL MECHANISM**
Raymond B. Grontkowski, Washington, D. C.
Application November 2, 1942, Serial No. 464,255
5 Claims. (Cl. 137—139)



1. In a fluid pressure braking system, a valve chamber having an inlet and an outlet for pressure fluid, a valve seat at said inlet, a valve within said chamber adapted to engage by gravity against said valve seat to close the fluid inlet, spring pressed means for maintaining said valve normally out of contact with said valve seat, and electromagnetically operated means for immobilizing said first named means to permit the valve to engage against the valve seat by the action of gravity.

2,391,018
**ROTARY BALER**
Paul H. Harrer, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 8, 1944, Serial No. 525,483
19 Claims. (Cl. 280—33.44)

19. A draft gear for vehicles comprising a pair of rigid side members secured together in angularly disposed, fixed relation, and a pair of rigid interconnected tongue members carried by said side members for selective coordinated movement to and retention in either a first position in which both tongue members are disposed alongside one of said side members in extension forming rela-

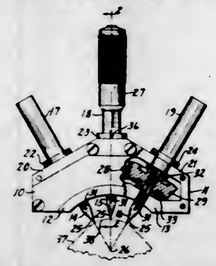


tion thereto or a second position in which one of said tongue members is disposed alongside the other one of said side members in extension forming relation thereto and the other one of said tongue members is disposed at an angle with respect to said one side member.

2,391,019
**SAPONIFICATION PROCESS**
Sabine Hirsch, Minneapolis, Minn., assignor to Cargill, Incorporated, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 20, 1943, Serial No. 514,971
17 Claims. (Cl. 252—369)

1. A method of soap making utilizing synthetic fatty acids prepared by heating a high molecular weight hydrocarbon to an elevated temperature such that the hydrocarbon is liquefied, with catalytic amounts of an oxidation catalyst, a persalt of an alkaline reacting cation and an emulsion while dispersing throughout the reaction mass a gas comprising oxygen and a minor percentage of moisture, which comprises reacting said synthetic fatty acids with an alkali solution at a temperature in the range of 20°–100° C.

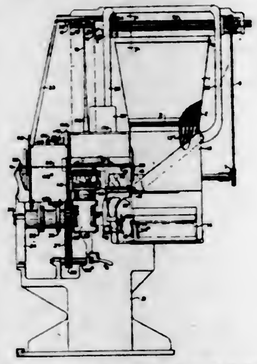
2,391,020
**MICROMETER GAUGE**
John J. Jackman, Dayton, Ohio
Application September 30, 1943, Serial No. 504,341
18 Claims. (Cl. 33—174)



1. In a micrometer gauge for measuring the radius of an arcuate surface, the combination of a supporting frame; three or more members mounted in the frame for movement relative thereto and having surface-contacting portions for engaging the arcuate surface whose radius is to be measured, said surface-contacting portions moving in paths which are radial to a center located outside the frame; and means for moving the members in unison so that the surface-contacting portions of all the members will simultaneously be positioned along their respective radial paths at points equidistant from said center and will form points on an arc whose radius is equal to the distance the surface-contacting portions have been displaced from said center, whereby, upon the members' being moved so that all the surface-contacting portions simultaneously engage the arcuate surface, their displacement from the center along any radial path will equal the radius of the arcuate surface.



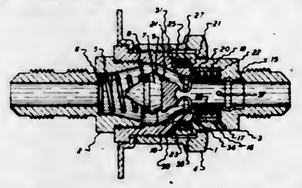
2,391,021
**APPARATUS FOR PHOTOGRAPHIC COMPOSITION**
Einar G. Klingberg, Long Island City, Fritz Stadelmann, Valley Stream, and Herman R. Freund, Brooklyn, N. Y., assignors to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application July 24, 1942, Serial No. 452,248
73 Claims. (Cl. 95—4.5)



1. In apparatus for photographically reproducing on a sensitized surface a line of type matter by photographing character-bearing elements and spacer elements composed into a line and having body thicknesses proportioned to the character or space widths represented by the elements, in combination, photographing means having a photographing position, movable means movable from a starting position for moving said sensitized surface relative to said photographing position, means for effecting movement of successive elements into said photographing position, responsive means movable from a first position to the starting position of said movable means and thereafter movable in successive steps in response to the movement of each successive element into photographing position, connecting means operative to connect said movable means and said responsive means at said starting position to move said sensitized surface successive amounts proportioned to the body thicknesses of the elements successively moved into photographing position, and means operative at the conclusion of the last element-moving operation to release said connecting means to disconnect said movable means from said responsive means, whereby said movable means and said responsive means may have relative movement with respect to each other as the two are returned respectively to the starting position and to the said first position.

2,391,022
**SELF-SEALING COUPLING**
Donald W. Main, Jackson, Mich., assignor to Michigan Patents Corporation, Jackson, Mich., a corporation of Michigan
Application April 26, 1943, Serial No. 484,579
3 Claims. (Cl. 284—19)

1. A fluid conduit coupling comprising two separable conduit parts having axial fluid passageways, abutting portions upon said parts surrounding said passageways, one of said abutting portions being fixed and the other having a fixed member and a movable member, a cylindrical bore defined in the outer wall structure of said part having the movable abutting member, a cylindrical sleeve in said last part defining, at least in part, the passageway therein, a valve seat supported by said sleeve at one end thereof and at one end of said last part, a fluid passage between said seat and sleeve, said sleeve and bore being in spaced relation to define a concentric annular chamber, said movable abutting member being slidably disposed in said chamber and having a wall in sliding relation with said bore, said bore having an annular recess therein adjacent



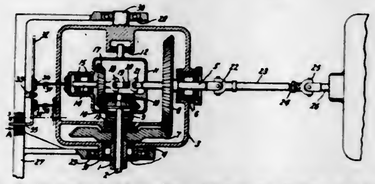
the outer end thereof, an annular sealing means in said recess, a spring urging said movable abutting member axially outwardly of said chamber to move said movable abutting member into sealing relation with said annular sealing means when said coupling is open, an annular lip projecting from said fixed abutting portion into telescopic relation with said bore and annular sealing means when said coupling is closed, said lip being so positioned with respect to said movable abutting member as to slide the same axially inwardly of said chamber when said separable parts are being moved, and means to draw said parts together into abutting relation.

2,391,023
**FOOTWEAR**
Roy Maling, West Roxbury, Mass.
Application December 8, 1944, Serial No. 567,157
9 Claims. (Cl. 36—11)



1. An article of footwear comprising a platform element extending from end to end of the article, a moccasin type forepart of upper having a tread part secured in covering relation to the under side of the forepart of said platform element; a heel unit underlying the platform element at the rear portion of the article; and a lasted rear portion of upper separate from said moccasin forepart of upper and secured on the upper surface of said platform element; said moccasin forepart of upper having an integral extension of its said tread part secured as a facing for the said heel unit.

**2,391,024**
## DYNAMOMETER
**Harold M. Martin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application May 27, 1944, Serial No. 537,592**
**7 Claims. (Cl. 73—136)**

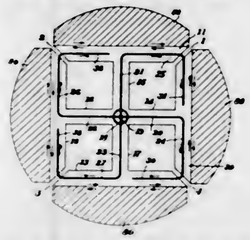


1. A torque measuring device including a hollow first shaft adapted to be connected to a driving source of mechanical power, means for rotatably supporting said first shaft, a second shaft extending coaxial with and through said first shaft and adapted to be connected to a second driving source of mechanical power, means for rotatably supporting said second shaft, means for rotatably supporting said second shaft supporting means on said first shaft supporting means substantially coaxially with said first and second shafts, a third shaft adapted to be connected to a driven load, means including said first shaft supporting means for rotatably supporting said third shaft substantially at right angles to said first shaft, means for providing a driving connection between said first and third shafts, a fourth shaft arranged substantially coaxially with said third shaft, means including a universal joint for connecting said fourth shaft to said third shaft, means for providing a driving connection between said second and fourth shafts, means including said second shaft supporting means for rotatably supporting said fourth shaft substantially at right angles to said second shaft, means for rotatably supporting said first shaft supporting means substantially coaxially with said first and second shafts, means including a linkage for transmitting and measuring the resisting torque reaction of said third shaft on said first shaft supporting means, and means including said linkage for transmitting and measuring the resisting torque reaction of said fourth shaft on said second shaft supporting means and for cumulatively measuring the torque transmitted by said third and fourth shafts.

**2,391,025**
## PHOTOENGRAVING
**Walter S. Marx, Jr., Santa Barbara, Calif., assignor to Printing Arts Research Laboratories, Inc., Santa Barbara, Calif., a corporation of Delaware**
**No Drawing. Application September 11, 1943, Serial No. 502,043**
**18 Claims. (Cl. 95—5)**

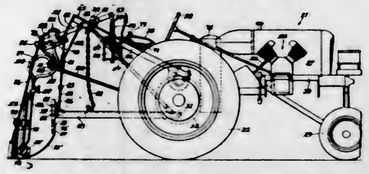
1. The method of making a half-tone printing plate negative with screen pattern discharged in the highlights while preserved in the shaded portions, which consists in including in the work areas of the subject a color changing compound, subjecting a light sensitive element to two registering exposures of said subject, one of said exposures being made with a screen and with said compound in one condition to register gradations corresponding to shade portions of the subject, the other exposure being made with the screen effectually removed and with the compound in another and colored condition while preventing light of such colored compound from acting on the light sensitive element.

**2,391,026**
## SHIELDED LOOP ANTENNA
**William D. McGuigan, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**
**Application November 15, 1943, Serial No. 510,266**
**8 Claims. (Cl. 250—33)**



6. A radio antenna system comprising a plurality of hollow radiant acting members each member being less than a half wavelength long at the operating frequency, said members being arranged in the form of a geometric pattern and being spaced apart a small distance at their adjacent ends to provide gaps, a hollow conductive arm joined respectively to each of the midpoints of the respective conductor members and extending inwardly of said pattern to a common junction, a translator device, and means for coupling said members to said translating device in energy transfer relation comprising an unsymmetric line having one hollow conductor fastened to said common junction, and a second conductor within said hollow conductor extending to said common junction, inner conductors in each of said hollow arms each connected at one end to said second conductor, said inner conductors each extending from the juncture of said arms and said members within said hollow members in the same direction around said periphery and across said gap into the next adjacent hollow member, and terminating short of the succeeding conductor.

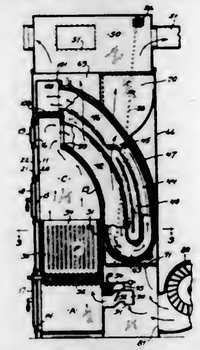
**2,391,027**
## APPARATUS FOR FLAME CULTIVATION OF PLANTS
**Price Chrenleigh McLemore, Montgomery, Ala., and Valdemar Knudsen, Honolulu, Territory of Hawaii; said Knudsen assignor to Atherton Richards, Washington, D. C.**
**Application January 9, 1943, Serial No. 471,858**
**13 Claims. (Cl. 126—271.2)**



1. In a cultivator adapted to cultivate row crops by the flame method, the combination of a wheeled vehicle adapted to travel along the rows, burners propelled by said vehicle adapted to project flames across the rows, free floating mounting skids for carrying said burners, and adjustable means connecting said skids with said vehicle enabling said skids to be shifted transversely relatively to each other to different positions crosswise of said vehicle.

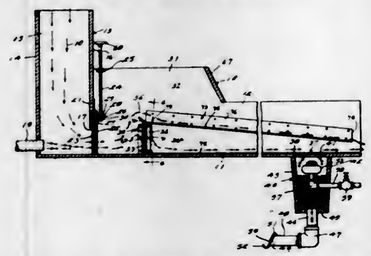


**2,391,028**
## HOT AIR HEATING FURNACE
**James C. Miles, Cleveland, Ohio**
**Application May 21, 1942, Serial No. 443,949**
**6 Claims. (Cl. 126—99)**



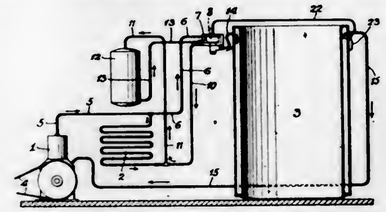
1. A hot air heating furnace having a body forming a combustion chamber, and a smoke chamber superimposed thereon, the combustion chamber having a front, a back and side walls, the back wall extending upwardly and forwardly and a housing forming a heating chamber in back of the combustion chamber, an air inlet at the bottom and an air outlet at the top of the heating chamber, a plurality of fire tubes each having one end thereof in communication with the combustion chamber and the other end thereof in communication with the smoke chamber, said tubes being disposed between the back wall of the combustion chamber and the housing, said fire tubes being shaped substantially complementary to that of the back wall and extending downwardly into the heating chamber for substantially the length of the combustion chamber and then upwardly to communicate with the smoke chamber, and each of said tubes having a cross section comprising a long and a short axis, the tubes being positioned so that at the upper ends of the tubes the long axis extends from front to back of the furnace and at the bottom of the tubes the long axis extends transversely of the furnace.

**2,391,029**
## MINERAL SEPARATING AND SIZING DEVICE
**Peter J. Minichello, Pittston, Pa., assignor of one-half to Michael Valenzano, Dunmore, Pa.**
**Application April 6, 1942, Serial No. 437,888**
**7 Claims. (Cl. 209—454)**



1. A mineral separator comprising in combination a trough, a receiving hopper at one end of said trough, a liquid discharge nozzle at the lower end of said hopper for forcing the material lengthwise of said trough, a vertically adjustable gate valve slidable between the rear end of said trough and said hopper, an upstanding baffle in said trough forwardly of said valve, a screen in the bottom of said trough forwardly of said baffle, a collector below said screen, and means in said collector spaced downwardly from said screen for agitating the material passing through and over said screen said means comprising a nozzle head having a plurality of fluid jet openings.

**2,391,030**
## REFRIGERATING APPARATUS
**Willard L. Morrison, Lake Forest, Ill.**
**Application December 15, 1941, Serial No. 423,023**
**6 Claims. (Cl. 62—127)**



1. A refrigerating apparatus comprising an evaporator, a source of refrigerant supply connected with said evaporator, an expansion valve in said connection, a controlling means for controlling said expansion valve responsive to variations in temperature of the evaporator and means associated with the expansion valve for preventing the temperature thereof from falling below a predetermined point comprising an electric heating coil surrounding the exterior of the expansion valve and connected in an electric circuit.

**2,391,031**
## SHEET METAL NUT
**Harold B. Muster, Avon Lake, Ohio, assignor to Rudolph I. Schonitzer, Shaker Heights, Ohio**
**Application September 23, 1944, Serial No. 555,429**
**17 Claims. (Cl. 85—32)**

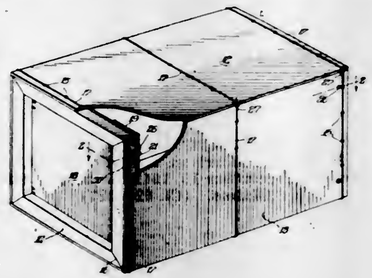


1. A sheet metal nut, comprising a pair of sheet metal members having telescopically related inter-engaging tubular portions, the inner tubular portion being internally threaded, one of said members having outwardly extending projections providing turning fingers for the nut, and the other of said members having means cooperating with said projections in interlocking the two members against relative rotary movement.

**2,391,032**
## BOX CONSTRUCTION
**Walter F. Newhouse, Benton Harbor, Mich.**
**Application December 17, 1943, Serial No. 514,601**
**3 Claims. (Cl. 217—15)**

1. A collapsible wirebound box of the character described comprising side walls and end walls, cleats attached to said side walls, and means for attaching said end walls in fixed position with respect to said side walls comprising a shallow

notch formed in an exterior edge of a cleat and extending outwardly from an inner side of a cleat a distance less than the thickness of a cleat to provide an opening recess interiorly of the cleat, a looped fastener secured to an inner side of a said end wall in position to extend substantially



perpendicularly outward from the plane of an end wall and to be directly received in said opening recess, and a fastening member driven through a side wall, through the looped fastener and into the cleat at the said recess to secure rigidly and fixedly the end wall to the cleat and a side wall.

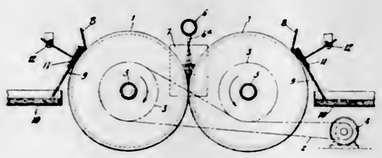
---

**2,391,033**

**DRYING HYGROSCOPIC PLASTICS**

**Robert T. Northcutt, Westfield, and Robert T. Northcutt, Jr., Fanwood, N. J., assignors to Food Concentrates, Inc., New York, N. Y., a corporation of Delaware**

**Application March 28, 1942, Serial No. 436,638**
**14 Claims. (Cl. 159—11)**



1. A method of drying a hygroscopic plastic molasses comprising flowing it onto a heated drying surface and forming a thin film of said molasses thereon, heating said film of molasses at atmospheric pressure to produce a hot frothy film containing occluded gases, scraping the film from the surface and breaking bubbles of the froth to release occluded gases.

---

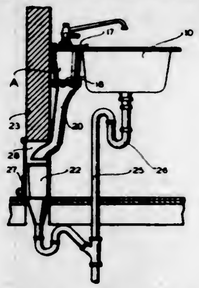
**2,391,034**

**SINK CONSTRUCTION**

**Vincent R. O'Brien, St. Paul, Minn.**

**Application November 8, 1943, Serial No. 509,515**
**2 Claims. (Cl. 4—187)**

1. A sink comprising a horizontal shelf and a basin extending downwardly from said shelf, said shelf including a rear portion having a swinging faucet extending upwardly therefrom and thence outwardly, said rear portion of said shelf also having a garbage hopper depending therefrom, said hopper being located adjacent said faucet so that the faucet may be swung into a position to discharge into the hopper, whereby garbage in said hopper may be washed and said hopper may be cleaned, said hopper having a peripheral flange extending around its lowermost edge where-



by the hopper may be connected to a garbage disposal unit or a drain.

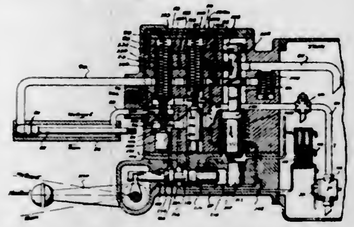
---

**2,391,035**

**HYDRAULIC RETRACTOR CONTROL**

**Walter M. Pohl, New Haven, Conn., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan**

**Application October 1, 1941, Serial No. 413,126**
**8 Claims. (Cl. 60—52)**



4. In a power transmission system, a hydraulic motor, a source of pressure for driving said motor, a main pilot valve means for controlling the flow of pressure liquid to and from said motor, a source of pilot pressure, a series of three valves connected to control said pilot pressure, two of said three valves being arranged to control, alternately, shifting of said main pilot valve means, and one of said three valves being arranged to control shifting of said other two valves.

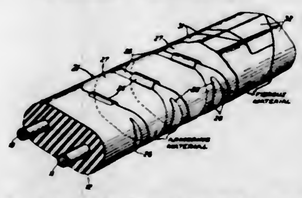
---

**2,391,036**

**ARMORED CONDUCTOR STRUCTURE**

**Osvald E. Rasmussen, Greenburg, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application March 14, 1942, Serial No. 434,686**
**8 Claims. (Cl. 174—102)**



4. A flexible cable structure and a single armoring tape with toothed edges applied tightly about said structure to form a substantially continuous layer with a narrow longitudinal undulating seam opening, said tape being sectionalized by narrow transverse openings extending entirely around said structure to form substantially continuous series of bands about the cable structure and including short offset connecting pieces across said openings, said transverse openings and the offset portions of said seam openings being only wide enough to permit bending of the armored structure without appreciable buckling of the tape material.



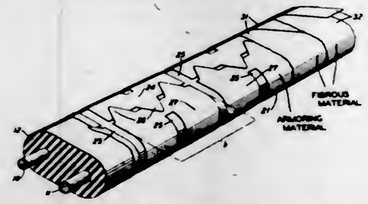
---

**2,391,037**

**ARMORED CONDUCTOR STRUCTURE**

**Ira C. Shafer, Jr., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application March 14, 1942, Serial No. 434,739**
**16 Claims. (Cl. 174—102)**




1. A long insulated conductor having an armoring tape placed tightly about and longitudinally of said insulated conductor to form a single generally continuous layer enveloping said conductor, said tape having narrow openings extending transversely of said conductor and disposed at frequent intervals along said conductor and being adapted to close up on the inside of the bend, when the conductor is bent, thereby substantially preventing buckling of the armoring tape, said transverse openings being disposed at frequent intervals along any surface line parallel with the conductor, each transverse opening being shorter than the tape width and being displaced in the transverse direction relative to others of said openings nearly adjacent thereto.

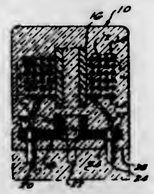
---

**2,391,038**

**ELECTRICAL DEVICE**

**Clare Morgan Rifenbergh, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware**

**Application October 17, 1942, Serial No. 462,399**
**7 Claims. (Cl. 175—21)**



1. An inductance device comprising a helical coil of a plurality of spaced turns of conductive material having a given thermal coefficient of expansion, and having predetermined axial and radial dimensions, said dimensions being such that the ratio of axial to radial dimensions of the coil tends normally to vary inversely with temperature, and a solid, resilient insulating material encompassing said coil and substantially surrounding the turns of said coil, whereby expansion and contraction of said insulating material will tend axially to move the turns of said coil, said insulating material having a thermal coefficient of expansion greater than said given coefficient of expansion whereby the variation in ratio of axial to radial dimensions is at least partially compensated.

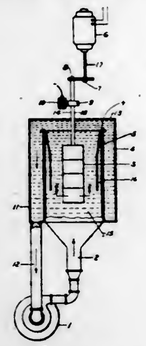
---

**2,391,039**

**METHOD OF COATING METAL ARTICLES**

**Ralph A. Schaefer, East Cleveland, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio**

**Application April 23, 1942, Serial No. 440,169**
**7 Claims. (Cl. 204—40)**



1. A method of producing a thick non-porous silver plate by electrodeposition on a metal article which comprises pre-treating the article by plating with a thin layer of nickel and a silver strike mounting said article for rotation as a cathode and circulating an electrolyte over said cathode while rotating the same, said electrolyte consisting of per liter 40 to 50 grams silver cyanide, 35 to 40 grams potassium cyanide, 40 to 50 grams potassium carbonate and 10 to 14 grams potassium hydroxide, the current density being 75 to 200 amperes per square foot.

---

**2,391,040**

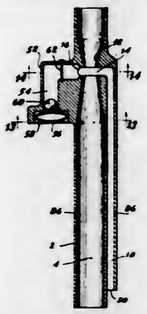
**SIGNALING NOZZLE**

**Frank P. Scully, Cambridge, Mass., assignor to Scully Signal Co., East Cambridge, Mass., a corporation of Massachusetts**

**Application February 14, 1944, Serial No. 522,255**
**12 Claims. (Cl. 226—66)**

1. A liquid level indicator comprising a nozzle, a Venturi tube in said nozzle, an opening through the wall of said nozzle into said Venturi section, a first passageway connecting with said opening and extending downwardly along the side of said nozzle, terminating at a position where it may be reached by rising liquid level in the container with which said nozzle may be used, a second passageway connecting with said opening and extending downwardly along said nozzle a limited distance, a whistle in series with said second passageway and located far enough from said opening to permit limited travel of a ball that normally rests on the inner side of said whistle to prevent the flow of gas therethrough, said second

passageway formed to permit adequate flow of gas therethrough when said ball has been moved from its position on said whistle to a position of greater passageway area, means for limiting the travel of said ball toward said opening, the loading of said ball being such that when said first passageway is open the negative pressure created in said second passageway will be insufficient to



cause sufficient movement of said ball to permit the passage of enough gas through said whistle to create a signal, but upon the trapping of said first passageway by liquid, the negative pressure in said second passageway will be sufficient to move said ball to a position in said second passageway whereby gas will flow through said whistle in sufficient volume to produce an audible signal.

---

**2,391,041**

## PRODUCTION OF WATER DISPERSIONS OF DRYING OILS, VARNISHES, AND LACQUERS

**Paul Stamberger, Dover, Del.**
**No Drawing. Application August 21, 1942, Serial No. 455,607**
**5 Claims. (Cl. 106—252)**

1. A process for preparing a composition of matter comprising a stable aqueous dispersion of an oxidized drying oil, which process comprises emulsifying an oxidizable drying oil in water and subjecting the emulsion to oxidation in the presence of an emulsifying and stabilizing agent, which secures stability of the emulsion at a pH lower than 7 in the presence of acidic by-products formed during oxidation of the drying oil emulsion, the emulsifying and stabilizing ability of said agent being due to another grouping of atoms in the molecule, then to a grouping acting as an anion.

---

**2,391,042**

## PROCESS FOR THE PRODUCTION OF SOLIDIFYING THICKENED AND SOLID MASSES FROM ESTERS OF UNSATURATED FATTY ACIDS

**Paul Stamberger, Dover, Del.**
**No Drawing. Application November 14, 1942, Serial No. 465,636**
**4 Claims. (Cl. 106—252)**

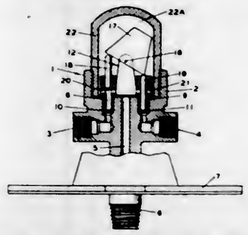
1. A process for producing stable aqueous dispersions of thickened esters, which process comprises dispersing in water a polyhydric alcohol ester of a polyunsaturated long chain fatty acid, and subjecting the dispersed particles to oxidation with hydrogen peroxide in the presence of an oxidation promoting catalyst and in the presence of an agent selected from the class consisting of nonionic and cationic emulsifying and stabilizing agents, the dispersion during oxidation, having a pH value between about 4 and 10, and the oxidation being continued until the ester is appreciably thickened.

---

**2,391,043**

## POPPET CHANGEOVER FOR LIQUEFIED GAS SYSTEMS

**Theodore A. St. Clair, Pontiac, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application December 16, 1941, Serial No. 423,235**
**7 Claims. (Cl. 62—1)**



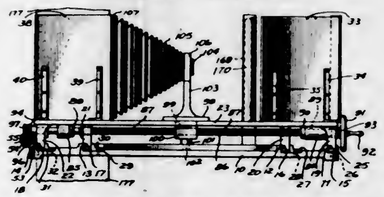
1. A system for the storage and utilization of liquefied gas comprising two sources of gas under pressure, a conduit leading from each source to a supply line, a valve controlling the flow of gas in each conduit, each of said valves having a vertically moving element which rises under fluid pressure in its respective conduit as the valve opens and lowers as the valve closes, and a weighted rocker movable into loading engagement with one of said elements by the movement of the other of said elements in response to the pressure in the conduit controlled by said other element as the pressure in the conduit controlled by said one element falls to a low value.

---

**2,391,044**

## CAMERA

**Bennett F. Terry, Stamford, Conn.**
**Application May 4, 1944, Serial No. 534,011**
**11 Claims. (Cl. 88—24)**



1. In a camera, a base forming a support, a station for vertically supporting a sensitized emulsion, a station for vertically supporting matter to be photographed, said stations being spaced apart from and substantially in alignment with each other on said base, a carriage substantially parallel to said stations and movable along said base from a normal position nearest said stations toward one end of said base, a longitudinal guide slot formed in said carriage, a lens support mounted on said carriage and engaging said guide slot, a lens mounted on said lens support, means operatively connected to said lens support for moving the same along said guide slot, a mirror positioned on one end of said carriage angular with respect to both said guide slot and said first station, a second mirror positioned on the opposite end of said carriage angular with respect to both said guide slot and said second station, whereby an image of matter in said second station is reflected by said second mirror and via said lens to said first mirror and thence to said sensitized surface in said first station, and means cooperating with said lens support for causing said carriage to move away from said stations when said lens support is moved toward said second mentioned mirror for producing enlarged images of said matter on said emulsion.



---

**2,391,045**

## OPHTHALMIC LENS

**Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application September 12, 1942, Serial No. 458,077**
**2 Claims. (Cl. 88—54)**



1. A series of lens blanks for ophthalmic lenses of adjacent powers embodying corrections for myopic and hyperopic eyes ranging from given maximum myopic to given maximum hyperopic corrections and having their errors of marginal astigmatism and power reduced substantially to a minimum, said series embodying several groups of lens blanks formed of lens medium of a given index of refraction and each blank of a respective group having the same base curve, the base curves of the different groups within said series being arranged in graded sequence with the base curve of each group having as an element of its computation the distance of the center of rotation of the eye from said base curve when the resultant lens is in required position of use before the eye, said center of rotation distance for each group being substantially the average of the different center of rotation distances of the particular group of eyes to be corrected through the use of the lens blanks of said group with the center of rotation distance of the blanks employed in the correcting of myopic eyes being greater than the normal center of rotation distance and with the center of rotation distance of the blanks employed in the correcting of hyperopic eyes being less than the normal center of rotation distance, the curvature of each base curve in each instance being so controlled that, when combined with the desired thickness of lens medium for each lens and with the required prescriptive curves for producing the desired corrective optical powers, the errors of marginal astigmatism and power of the resultant lenses of said respective groups will be reduced substantially to a minimum.

---

**2,391,046**

## FASTENING DEVICE

**George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application February 23, 1939, Serial No. 257,900, now Patent No. 2,266,832, dated December 23, 1941, which is a division of application Serial No. 93,679, July 31, 1936, now Patent No. 2,159,573, dated May 23, 1939. Divided and this application August 16, 1941, Serial No. 407,181**
**2 Claims. (Cl. 85—32)**

1. A fastening device consisting of a nut loosely held within a holder of spring metal shaped to fit across the top of the nut with extensions diverging from two opposite sides toward the bottom face to a lateral fold and thence continuing at an angle substantially more than 90° to the diverging sides under the bottom of the nut toward its bore and terminating in outwardly facing hooks, which can be sprung toward each other and snapped through an aperture in a work sheet so that the nut is resiliently held spaced therefrom to receive a bolt.



---

**2,391,047**

## EYELASH CURLER

**William R. Tuttle and William J. Beldue, Rochester, N. Y., assignors to The Kurlash Company, Inc., Rochester, N. Y., a corporation of New York**
**Application January 25, 1944, Serial No. 519,620**
**2 Claims. (Cl. 132—32)**



1. In an eyelash curling device, a pair of pivotally connected handle members, one of said members having a pair of arms provided with flattened end portions connected by a curved stationary jaw, said jaw having an overturned upper edge portion and having downwardly extending integral end parts constituting shields and being secured at spaced points to the flattened end portions and providing a space between them and the flattened ends, a movable jaw having sleeve portions extending around and movable on the flattened end portions between the shields and said flattened ends, the shields each having a partially cylindrical portion and a planar portion, the planar portions being inwardly directed toward the body of the stationary jaw.

---

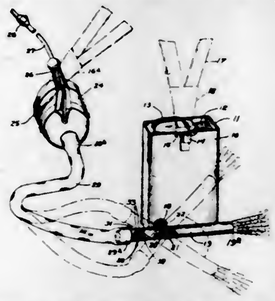
**2,391,048**

## SPRAYING DEVICE FOR DIVIDED SOLID MATERIALS

**Edwin W. Vose, Orange, N. J., assignor to Spray Process Co. Inc., New York, N. Y., a corporation of New York**
**Application February 11, 1943, Serial No. 475,472**
**9 Claims. (Cl. 91—45)**

1. In apparatus for spraying divided solid material, in combination, a portable tank or container for said material having a filler opening formed in the top thereof, a hole formed in said tank near the bottom thereof, a threaded nut secured to said tank with its hole concentric with the hole formed in said tank, injector means having one end rotatively and threadedly engaging the hole in said nut and communicating with the interior of said tank, a nozzle mounted on

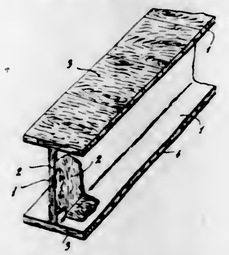
said injector means and having its interior communicating with the interior of said injector means, and means for supplying a stream of air



to said nozzle, thereby causing the material from said tank to pass into said nozzle via said injector means and to become entrained in said stream of air.

---

**2,391,049**
**INTERNALLY INSULATED STRUCTURAL UNIT**
**Charles R. Weiller, Louisville, Ky., assignor to Reynolds Metals Co., Richmond, Va., a corporation of Delaware**
**Application June 20, 1944, Serial No. 541,142**
**2 Claims. (Cl. 189—40)**

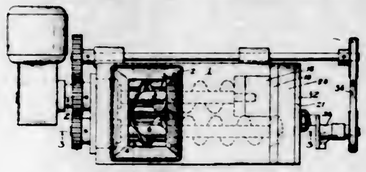


1. An internally insulated structural member comprising a cellulosic core, composed of a plurality of angularly related elongated wood units, each wood unit consisting of butt joined wood pieces with the grain thereof extended transversely of the structural member, and a plurality of metallic strips surfacing the core and bonded thereto, said strips being formed of strain-resisting metal.

---

**2,391,050**
**PROCESS FOR EXTRUDING ACID-ACTIVATED MONTMORILLONITE CLAY**
**Lee Van Horn, West Los Angeles, Calif., assignor to Filtrol Corporation, Los Angeles, Calif., a corporation of Delaware**
**Application January 25, 1944, Serial No. 519,685**
**2 Claims. (Cl. 252—259.2)**

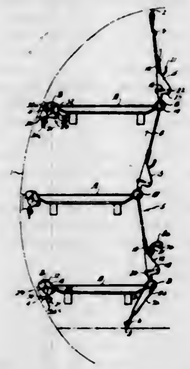
1. A process for extruding an acid activated montmorillonite clay, which comprises forcing acid activated montmorillonite clay, containing enough water for extrusion, through a die orifice whose surface in contact with the clay being extruded is composed of Monel metal having a high wear resistance and a low frictional resistance to the motion of said clay through said die orifice and a high corrosion resistance to said acid activated clay, and correlating therewith the rate



of extrusion and water content of the clay being extruded to produce catalyst pellets of satisfactory catalytic activity.

---

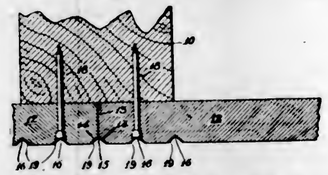
**2,391,051**
**LITTER SUPPORTING APPARATUS**
**George H. Windsor, Tujunga, Calif.**
**Application February 12, 1944, Serial No. 522,179**
**13 Claims. (Cl. 5—9)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



5. In a litter supporting apparatus for vehicles of the class described having a supporting frame, a plurality of flexible supporting members secured to the frame at vertically spaced points, said flexible supporting members each comprising a pair of juxtaposed strap members for receiving a litter pole handle therebetween, a litter pole handle receiving and supporting loop member interposed between said strap members having a loop portion and end portions extending therefrom secured to said strap members, and clamping and tensioning means slidably mounted on said flexible supporting member to move toward the handle receiving loop portion and operable to clamp and tension the loop portion around said litter pole handle when the same is inserted in the loop member, and to simultaneously tension the flexible supporting member between its secured ends, said clamping and tensioning means including a manually operable camming lever and clamping means operable thereby, engageable with said strap members to clamp the end portions of the loop members together between the strap members adjacent the litter pole handle when disposed in the loop portion and tension the said loop portion around the said litter pole handle.



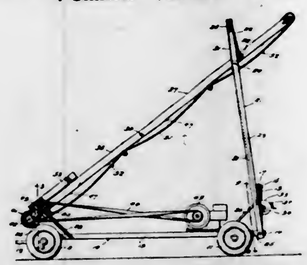
**2,391,052**
**WALLBOARD CONSTRUCTION**
**Herbert A. Hauptli, Dubuque, Iowa, assignor to Maizewood Insulation Company, Dubuque, Iowa, a corporation of Iowa**
**Application August 21, 1941, Serial No. 407,712**
**1 Claim. (Cl. 20—4)**



A wallboard construction comprising upright studs, and a plurality of panels in edgewise abutting relation, with the abutting edges of the panels extending vertically and overlying studs, said panels forming a continuous wall surface and having grooves grouped to form vertical stripes spaced apart and providing a recurring pattern on the wall surface with a stripe located at each pair of abutting edges and formed partially on each of the adjoining panels, each of the stripes so located and formed including a groove formed by beveled surfaces on the abutting edges of the adjoining panels, one of the grooves in each of the adjoining panels adjacent the edge of the panel being spaced from the edge a distance less than one-half the width dimension of the stud whereby to receive a row of nails in the groove entering the stud, the width of the nail-receiving grooves being greater than the diameter of the nail heads whereby the nail heads may be set below the surface of the panel without widening the groove, said recurring pattern of stripes substantially concealing the adjoining edges of the panels and the rows of nails.

---

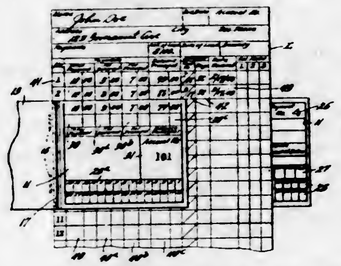
**2,391,053**
**BALE ELEVATOR**
**Lewis Jackson, Simpson, Kans.**
**Application October 28, 1944, Serial No. 560,848**
**7 Claims. (Cl. 198—122)**



1. An elevator comprising an elongated chassis frame, an elevator-carrying frame pivotally mounted adjacent one end thereof, an upstanding stop frame fixedly mounted adjacent the other end of the chassis frame and disposed in a plane transverse thereto, an open derrick frame to receive and cross said elevator-carrying frame and pivotally mounted at one of its ends adjacent the lower end of said stop frame, said elevator-carrying frame being swingable from a lowered idle position in which it contacts with and rests on said stop frame to an inclined operative position, a stop on the intermediate portion of said elevator-carrying frame, said derrick frame being swingable from a lower idle position in which it contacts with and rests on said stop to a vertical operative position in which its intermediate portion abuts one side of the top portion of said stop frame, a cable guide adjacent the free end of said derrick frame, a cable winding drum, and a cable passed around said cable guide and having one end attached to said elevator-carrying frame adjacent the free end of the latter and its other end wound on said drum, whereby when the drum is operated to wind the cable thereon, the derrick frame will first swing upwardly against said stop frame and then the elevator-carrying frame will swing upwardly to an operative position.

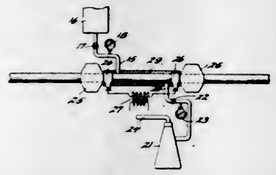
---

**2,391,054**
**MULTIPLE PAYMENT COUPON BOOK**
**Edward A. Kelly, Indianapolis, Ind.**
**Application March 18, 1944, Serial No. 527,104**
**5 Claims. (Cl. 282—9)**



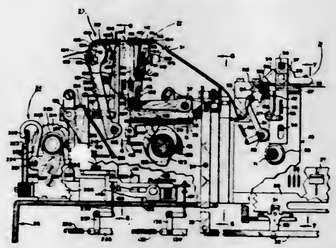
2. A multiple payment coupon book assembly having in combination a plurality of coupon sheets, each sheet consisting of a stub and a complemental detachable record coupon, the latter being foldable laterally so as to cover its stub, the face of each stub and the back of each coupon having a plurality of complemental longitudinally aligned duplicated spaces appropriately designated for the entry of predetermined payment data, said spaces being so positioned that those of the coupon will register with those of the stub while the coupon is in its folded position over said stub, whereby entries made in the spaces of the folded-over coupon may be simultaneously duplicated in the corresponding spaces of the stub lying beneath the same, cover pages enclosing said coupon sheets, means for binding said cover pages and said coupon sheets into book form, one of said cover pages being foldable along a line parallel with said binding means but spaced therefrom, said line of fold being in a predetermined position with respect to the position of the payment data spaces of said stub, so as to provide a clamp portion adapted to hold a ledger record sheet in juxtaposition with the folded coupon and its stub, whereby payment data spaces on said ledger sheet may be held in register with the payment data spaces of the stub and folded-over coupon, so that after each coupon is detached from its stub the latter will serve as the borrower's payment receipt and the detached coupon and the ledger sheet will each contain a replica of the entries on the stub, and a strip of material interposed between said coupon sheets at the bound extremities thereof so as to increase the gripping tension of said clamp portion.

2,391,055
**POLYMERIZED CABLE BLOCKS**
**Laszlo I. Komives, Joseph W. Courtis, and David E. F. Thomas, Detroit, Mich., assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
Application February 23, 1938, Serial No. 192,186
12 Claims. (Cl. 174—23)



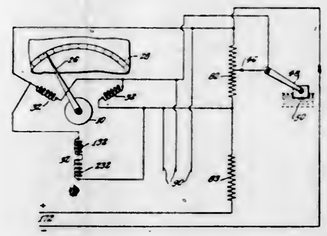
1. The method of forming in successive stages, radially of the cable section, a fluid stop intermediate the ends of a finished intact sheathed cable having conductors and fibrous insulation of different degrees of penetrability, said insulation being impregnated with an insulating fluid which also fills all voids in the sheath, comprising introducing a readily polymerizable liquid into the sheath to replace the insulating fluid in the easier penetrated insulation of a predetermined length of cable desired for the stop, polymerizing said liquid to thus block this portion of insulation, again introducing such liquid to now replace the insulating fluid in the remainder of the insulation and polymerizing said liquid to complete the stop.

2,391,056
**KEYBOARD PERFORATOR**
**Ross A. Lake, Oak Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware**
Application February 22, 1943, Serial No. 476,693
10 Claims. (Cl. 164—112)



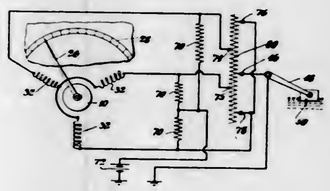
1. A perforating device comprising a plurality of punch elements for punching control indicia in a strip, means for advancing said strip as an incident to the punching operation including a unitary member engaging said strip, rotary means for positively operating said unitary member rectilinearly, means to engage said strip and hold it temporarily against displacement during a portion of the rectilinear operation of said unitary member, and means to shift said rotary means to cause said unitary member to be operated in a reverse manner to impart reverse movement to said strip.

2,391,057
**ELECTRICAL TELEMETERING SYSTEM**
**Frederick J. Lingel, Bluffton, Ohio, assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware**
Original application August 23, 1940, Serial No. 353,783. Divided and this application October 31, 1944, Serial No. 561,264
4 Claims. (Cl. 177—351)



1. An indicating instrument comprising, in combination, a permanently magnetized cylindrical rotor, and a plurality of angularly spaced coils mounted with their flux axes radial with respect to said rotor, one of said coils having mutually opposing windings for varying the range of actuation of said rotor by the other coils, said windings having an unequal number of turns, a source of E. M. F., and means including a potentiometer for variably energizing said coils from said source of E. M. F.

2,391,058
**ELECTRICAL INSTRUMENT AND SYSTEM**
**Frederick J. Lingel, Bluffton, Ohio, assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware**
Continuation of application Serial No. 353,783, August 23, 1940. This application December 12, 1944, Serial No. 567,848
5 Claims. (Cl. 177—351)



1. An indicating instrument including a permanently magnetized cylindrical rotor and a plurality of coils angularly spaced around the rotor for actuating said rotor to various positions throughout substantially 360°, a source of E. M. F., an electrical circuit for said coils including a variable element, said variable element selectively determining the relative strength of current supplied to said coils from said source of E. M. F., said circuit including a plurality of resistors each connected at one end to said source of E. M. F. and at its other end to a corresponding one of the coils, one end of each of said coils having a common connection.

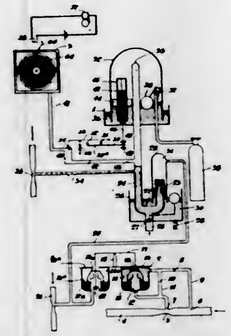


2,391,059
**PONTOON ASSEMBLY AND METHOD OF USING THE SAME**
**Walter W. Macfarren, Los Angeles, Calif.**
Application November 20, 1940, Serial No. 366,507
20 Claims. (Cl. 114—0.5)



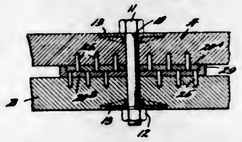
1. The method of preventing the dispersion of floating oil or combustible debris upon the surface of a ship channel or water way, comprising the vertical movement of a skimming dam extending across said water way, from a submerged position to a floating position in which its upper portion will extend above the water surface, and confine such oil or debris to a limited area.

2,391,060
**RECORDING AND INDICATING SYSTEM**
**John R. MacKay, West Caldwell, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey**
Application March 14, 1939, Serial No. 261,853
In Great Britain March 23, 1938
37 Claims. (Cl. 210—28)



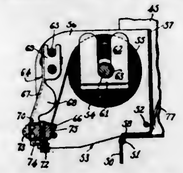
1. In feeding apparatus wherein the feed is effected by a pressure difference across a feeding element and in accordance with variations of pressure on one side thereof, the combination of pressure-responsive indicating means having a pressure-transmitting control line therefor connected with the aforesaid side of the feeding element, and means responsive to a predetermined variation of pressure on the other side of the feeding element for altering the pressure in the control line to an abnormal value and independently of the pressure on the first-mentioned side of the feeding element, said pressure-variation-responsive means including control means therefor responsive to pressure change, on said other side of the feeding element, in a direction toward equality of pressure with the pressure on the first-mentioned side of the element, whereby the resulting alteration of pressure in the control line causes adjustment of the indicating means to a position indicating undesired diminution of the feed through the feeding element.

2,391,061
**TIMBER CONNECTOR**
**Charles Mackintosh, Los Angeles, Calif.**
Application January 4, 1943, Serial No. 471,303
4 Claims. (Cl. 20—92)



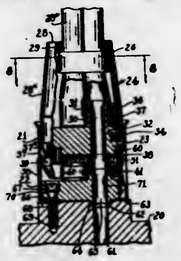
1. As an article of manufacture, a timber connector element comprising, in combination, a metal plate having a plane timber contacting surface and a multiplicity of holes extending transversely therethrough, a multiplicity of pegs having their forwarding or entering ends only securely set in said holes, said pegs adapted to be driven home into the adjacent face of a timber when the connector is applied to a timber joint.

2,391,062
**ADHESIVE TAPE DISPENSING DEVICE**
**Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut**
Application October 9, 1940, Serial No. 360,397
7 Claims. (Cl. 242—55.5)



1. In a dispensing device for adhesive tape in roll form, a mounting on which the roll is rotatably supported, means providing points of securement spaced lengthwise of the tape to which the tape is adapted to be secured by its adhesive material while being cut, and means guided by said first means for creasing the tape between the points of securement preliminary to cutting.

2,391,063
**HOSE COUPLING**
**Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut**
Application May 22, 1943, Serial No. 488,019
10 Claims. (Cl. 285—21)



1. In a hose coupling, the combination of two ported members adapted to be brought axially

into close association for forming a seal, and means for holding them in such association, one of said members having a soft elastic nipple projecting axially from an end portion thereof and adapted for axial compression and the other member having an axially projecting portion entering the nipple and holding it under axial compression, said nipple having a transverse carrying web interposed between parts of said first member.

---

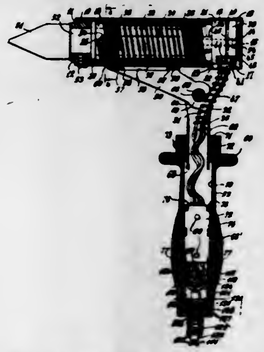
**2,391,064**
**TOE MITT**
**Estella Stokes McCandless, Detroit, Mich.**
**Application February 17, 1942, Serial No. 431,240½**
**1 Claim. (Cl. 2—239)**



A toe mitt comprising a knitted element of a length to terminate at the open end and under side approximately at the base of the toes of the user, a knitted silk edge portion at the open end of the mitt of a narrow width to permit the under side of the same to lie in the space between the ball of the toes and the ball of the foot, said edge portion being so knitted as to tend to contract at its outer edge thereby tending to prevent displacement of the mitt whether worn within the stocking or on the exterior thereof.

---

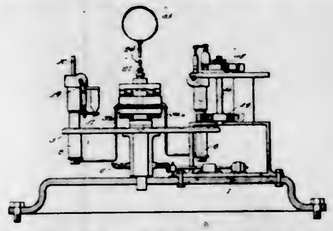
**2,391,065**
**ELECTRICALLY HEATED DEVICE**
**Benjamin P. McKinley, Chicago, Ill., assignor to McKinley Mockenhaupt Co., Chicago, Ill., a corporation of Illinois**
**Application June 14, 1941, Serial No. 398,080**
**3 Claims. (Cl. 219—26)**



2. In an electric soldering device, a tubular shell, a tubular member of insulating and thermal conducting material having a head at one end arranged with passages extending from spaced peripheral portions to a common peripheral portion of the head and the member releasably mounted in the shell, an electric resistance coiled around the insulating member and the ends terminating at the spaced ends of the passages in the head of said member, electric conductors entering the head of the insulating member at the common end of the passages and connected to the terminating ends of the resistance, U shaped members engaged over and clamped to the connections between the resistance and conductors to prevent corroding of the conductors and a mechanical strain on the resistance at said connections, beads of electric insulating and heat resistance material engaged on the connected ends of the resistance and conductors to prevent deterioration of the conductors, a soldering bit engaged in the insulating member and projecting from the shell, and a screw adjustably mounted in the shell to releasably retain the soldering bit in the insulating member.

---

**2,391,066**
**BEVERAGE MIXING MACHINE**
**Charles H. Miller, Chicago, Ill.**
**Application June 7, 1943, Serial No. 489,979**
**7 Claims. (Cl. 259—54)**



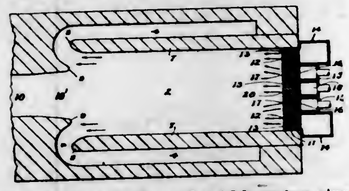
1. The combination with a rotative table, of a plurality of shaker units disposed around the edge of said table, each shaker unit comprising a receptacle support mounted to swing in a vertical plane through an arc of substantially 180°, a clamping head associated with each receptacle support, pneumatic means upon each receptacle support for actuating the clamping head, additional pneumatic means associated with each receptacle support for bodily swinging the same, a group of conduits for conducting pressure fluid to each of the first named pneumatic means, a second group of conduits for conducting pressure fluid to the last named pneumatic means, a block centrally disposed with respect to the table and bodily rotating therewith, means for supplying pressure fluid to the interior of said block, two groups of valves in said block for controlling the pressure fluid to said conduits, and a fixed cam disposed in the path of movement of said valves and over which said valves ride and by which the valves are actuated in timed relation to first clamp a bottle or other receptacle upon a receptacle support and thereafter impart a plurality of inversions to the receptacle support for each rotation of the table.

---

**2,391,067**
**METHOD AND APPARATUS FOR THE PRODUCTION OF CARBON BLACK**
**Percival H. Mitchell, Toronto, Ontario, Canada, assignor to Albert Carson Ransom, Toronto, Ontario, Canada**
**Application January 8, 1942, Serial No. 425,977**
**12 Claims. (Cl. 23—209.8)**

4. A method of making carbon black consisting in directing streams of oxygen containing gaseous combustible substance adjacent to the inner sides of the boundary walls of a combustion chamber, igniting said combustible mixture to form primary heating zones, diverting the flow of said burning streams and directing same along the outer sides of the combustion chamber boundary walls to form secondary heat zones, con-

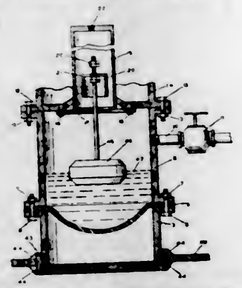




trolling the velocity flow of said burning streams, directing a stream of hydrocarbon gas into said combustion chamber between and in contact with the burning streams and effecting decomposition of said gas and the formation of carbon black, and continuing the flow of the decomposed hydrocarbon past the point of diversion of the burning streams.

---

**2,391,068**
**FLUID PRESSURE ELECTRICAL SWITCH**
**J. Marshall Nye, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application July 29, 1943, Serial No. 496,660**
**8 Claims. (Cl. 200—83)**

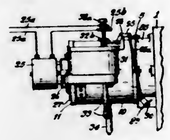


1. A fluid pressure actuation means for an electrical switch comprising in combination a conduit for conducting a fluid under pressure, a rigid fluid tight chamber of limited volume having an open side communicating with the conduit, a flexible diaphragm across the open side of the chamber forming a first sealing means for the conduit, rigid means separate from said diaphragm for varying the volume of the chamber, and electrical switch operating means carried by said flexible diaphragm, the contacts of said switch being exterior to said chamber, said chamber forming a second sealing means for the conduit and preventing the escape of fluid to said contacts upon failure of the first sealing means.

---

**2,391,069**
**HORIZONTAL POT TYPE BURNER**
**Stanley Perry, Chicago, Ill., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois**
**Application March 18, 1944, Serial No. 527,067**
**4 Claims. (Cl. 158—91)**

1. In a pot type burner, a pot having a circumferential wall with a plurality of primary air inlet apertures, a vaporizing cup located within said pot, means for directing a flow of liquid fuel to the cup, a control means for varying the rate of flow of liquid fuel to the cup, means for delivering secondary air adjacent the mouth of the pot, additional means for delivering tertiary air to the mixture of vaporized fuel primary and



secondary air, including a tertiary air chamber adjacent the mouth of the pot, said chamber having a circumferential tertiary air delivery aperture, means for controlling the flow of air into said tertiary air chamber and means for coordinately controlling said tertiary air flow controlling means and said fuel flow controlling means.

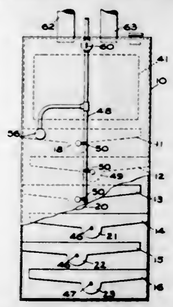
---

**2,391,070**
**DUSTER**
**Valdemar A. Potholm, Hartford, Conn.**
**Application April 17, 1943, Serial No. 483,509**
**1 Claim. (Cl. 15—160)**



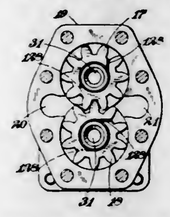
A brush comprising an elongated body portion, said body portion being enlarged at its lower end to provide a compressible air chamber, a partition in said chamber extending transversely of the longitudinal axis of said body portion and spaced inwardly of the lower end thereof, and a brush head having its mounting end occupying the entire space within said enlarged end of the body portion below said partition and in contact with said partition, the upper end of said body portion constituting a handle and being of reduced diameter relative to said enlarged lower end and tapered toward its upper end and having a passage therethrough opening at the upper end thereof and in communication with said compressible air chamber whereby upon compression of said chambered portion of said body a jet of air will be emitted from the reduced end of the body portion to enable the brush to be used as a duster blower.

**2,391,071**
**HEATING APPARATUS**
**William R. Price, Niagara Falls, N. Y.**
**Application October 23, 1943, Serial No. 507,378**
**6 Claims. (Cl. 219—38)**



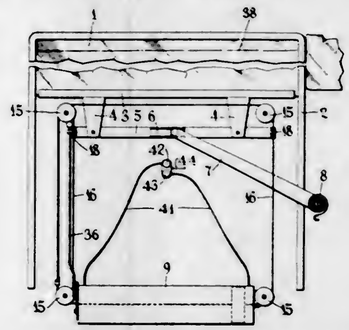
1. A low pressure vapor generator comprising a casing, a plurality of relatively shallow superposed water pans supported therein in vertically spaced relation, alternate pans being in abutment with one wall of said casing and spaced from the opposite wall, the intervening pans being spaced from said one wall and in abutment with said opposite wall, said pans extending substantially across said casing whereby to define a zig-zag fluid path extending horizontally over each of the several pans in series, electrical heating means associated with each of said pans for heating water therein to generate vapor, and a vapor discharge conduit leading from the upper portion of said casing.

**2,391,072**
**HYDRAULIC PUMP**
**Cyril Alphonso Pugh, Ilford, England, assignor to The Plessey Company Limited, Ilford, England, a British company**
**Original application May 17, 1943, Serial No. 487,252. Divided and this application June 21, 1944, Serial No. 541,398. In Great Britain July 10, 1942.**
**1 Claim. (Cl. 103—126)**



A hydraulic gear pump comprising in combination a casing consisting of a centre section and two outer sections, whereof the said centre section is formed as a pump chamber provided with inlet and outlet ports and the outer sections are provided with journal bearings, a pair of intermeshing pump gears rotatably mounted in the pump chamber of the said casing, each of said gears having at least one channel provided on each of its opposite cheeks with the channel in one cheek angularly displaced relatively to that in the other cheek, and each such channel opening substantially throughout its length in the face of the said cheek and opening also at one end to the pump chamber and at the other end to one of the journal bearings, whereby the ends of the channels will be brought periodically and successively into communication with the outlet from the pump chamber thereby to receive successive small quantities of fluid as the gears rotate, which quantities of fluid are forced into the channels to provide pressure pulsations acting alternately on opposite faces of the gears, and in addition will pass to the journal bearings to effect lubrication thereof.

**2,391,073**
**WINDOW OPERATOR**
**Anton Rappl, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.**
**Application January 2, 1943, Serial No. 471,152**
**19 Claims. (Cl. 268—125)**



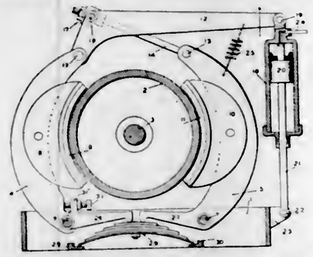
1. A window system comprising a window, a fluid motor operatively connected to the window in a permanent manner and including a chamber and a piston member disposed therein for relative back and forth movement, window locking means operable by and from the window to secure the piston member against movement relative to the motor chamber, means for rendering the locking means inoperative while permitting the movable element of the motor to idly follow along with the manual opening of the window, and means operable by the last means subsequent to the unlocking operation thereof for moving the window to an accessible position.

**2,391,074**
**CENTRALIZING MEANS FOR BRAKE SHOES**
**Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware**
**Application March 16, 1944, Serial No. 526,675**
**15 Claims. (Cl. 188—75)**

1. In braking apparatus, a brake drum, a support, two levers having brake shoes thereon pivotally mounted on the support for cooperation with the drum, actuating means including a pressure fluid motor interconnected with the levers for moving said shoes in opposite directions to engage said shoes with the drum, said pressure fluid motor including a stop means for limiting the extent both shoes can be released from the drum but being ineffective to prevent simultaneous shifting of the levers about their pivots relatively to the drum when released, and means cooperating with means on said levers for causing both shoes when permitted to assume fully released condition as determined by the stop

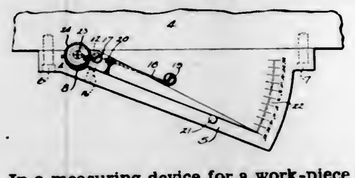


means to be in positions free of the drum, said means embodying arm means operatively associated with the levers permitting independent



movement of the lever mounted shoes when actuated in order to engage the drum with equal pressures.

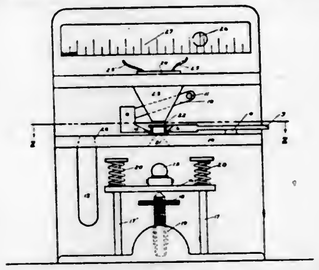
**2,391,075**
**MEASURING DEVICE**
**James P. Steibel and Sverre Martinson, Racine, Wis.**
**Application October 15, 1943, Serial No. 506,304**
**3 Claims. (Cl. 33—1)**



1. In a measuring device for a work-piece having an upstanding edge, the combination of a plate having a substantially flat surface for reception of the work-piece, an abutment roller journaled at a fixed point on the plate in position to locate said upstanding edge, an index fulcrumed on the plate and a scale positioned to cooperate with said index to indicate angles, a contact roller journaled on said index above said abutment roller to be contacted by a portion of said upstanding edge spaced from said abutment roller to be displaced by said edge when the latter is placed in contact with said abutment roller for actuating said index, and spring means for urging said contact roller into contact with said upstanding edge.

**2,391,076**
**DEVICE FOR POSITIONING COLORIMETER CELLS**
**Daniel S. Stevens, Chicago, Ill.**
**Application March 4, 1942, Serial No. 433,310**
**3 Claims. (Cl. 88—14)**

1. In a colorimeter which has a light affected meter, a light-beam projecting light and a platform with an aperture in the path of the light-beam adapted to carry a sample holder thereon, means for acting on a sample holder to position and releasably retain the holder in a predetermined location on the platform in alignment with the aperture and in the path of the light-beam, said means including in combination holder means on said platform on one side of said light-beam path, securing means having a body portion, and means mounted above said platform pivotally supporting said body portion in a manner to permit pivotal movement thereof downwardly on the other side of the light-beam path and toward said holder means to engage and position a sample holder in the light-beam path against said holder means and retain the sample holder in such position to affect the light-beam intensity



for a reading on the meter, said body portion being movable upwardly and away from the sample holder for release of the latter, and said holder means being mounted for movement parallel to said platform and across the aperture therein to move a positioned sample-holder away from said aperture.

**2,391,077**
**METHOD OF MAKING BRUSHES**
**Otto W. Sticht, Orange, N. J.**
**Application September 12, 1942, Serial No. 458,121**
**4 Claims. (Cl. 300—21)**

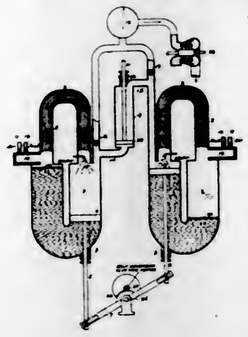


1. A method of making brushes, consisting in providing a tube of fibrous material, a tuft of hair and a mixture of a thermoplastic and a vehicle therefor, the thermoplastic having a fusing point lower than the scorching temperature of the fibrous material of the tube and the vehicle having a boiling and evaporating point lower than the fusing temperature of the thermoplastic, applying the mixture of the thermoplastic and the vehicle to an end portion of the tuft of hair, inserting said end portion of the tuft of hair into one end of the tube with the opposite end portion of the tuft of hair projecting from the tube, and applying heat and pressure to said end of the tube to dissipate the vehicle and fuse the thermoplastic and unite the hairs of the tuft together and secure the tuft of hair in the tube by the fused thermoplastic being forced into the spaces between the hairs of the tuft and into the material of the tube.

**2,391,078**
**APPARATUS FOR POWER DEVELOPMENT**
**Alfred M. Thomsen, San Francisco, Calif.**
**Application June 16, 1942, Serial No. 447,293**
**5 Claims. (Cl. 60—45)**

1. In an apparatus for converting the major part of the heat energy of fuel into mechanical energy the combination of; two doubly interconnected vessels, one interconnection containing a regenerator and the other interconnection being sealed by a liquid displacer; means for keeping the liquid displacer in oscillation; means for in-

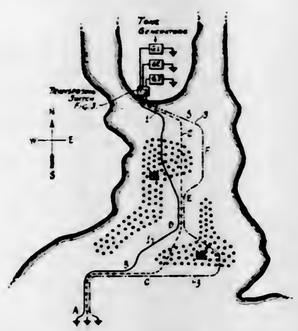
jecting fuel and air for combustion of same into one vessel and means for periodically releasing an equivalent volume of the products of said combustion from the other vessel; a suitable prime



mover for converting the energy resident in said vented gases into mechanical energy and means for conveying said vented gases to said prime mover.

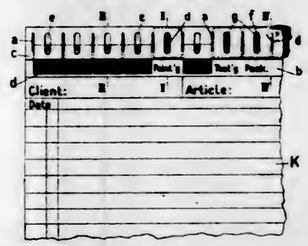
---

**2,391,079**
**HARBOR NAVIGATION SYSTEM**
**Arthur Van Dyck, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 30, 1942, Serial No. 449,109**
**11 Claims. (Cl. 177—385)**




3. In a system for protecting a harbor against invasion by enemy ships and for protecting friendly ships against the hazards of mined areas in said harbor, where alternating current conductors have been submerged along a relatively safe channel and also through mined areas, the method which comprises utilizing the energy radiated by said conductors to locate two certain points along said safe channel between which a plurality of said conductors run closely parallel to each other and utilizing divergent stretches of said conductors to guide those who are informed as to their position in said safe channel, while causing a random following of divergent stretches of said conductors to decoy a ship into one of said mined areas.

**2,391,080**
**CARD LEDGER**
**Eric Vaucher, Biel, Switzerland**
**Application February 17, 1944, Serial No. 522,816**
**In Germany March 9, 1943**
**3 Claims. (Cl. 116—135)**




1. A card ledger of the character described, comprising a base card, an indicating card movably arranged thereon, and a cover member between which and said base card the movements of said indicating card are effected, means associating said cover member and said base card and defining means for guiding said indicating card in its movement, said cover member being provided with an elongated slot, the direction of elongation being coincident with the longitudinal direction of movement of said indicating card, said card being provided with an aperture and with a burred edge around said aperture, said burred edge projecting through said elongated slot whereby it constitutes means for limiting the extent of movement of said indicating card, said aperture being cooperable with means for effecting displacement of the card, and said associating means being so positioned relative to the indicating card as to assure frictional holding of the latter between the base card and the cover member against undesired movement while allowing desired movement by said displacing means.

---

**2,391,081**
**MEANS FOR HANDLING AMMUNITION**
**George W. von Hofe, Bound Brook, N. J., and Eino E. Lakso, Fitchburg, Mass., assignors to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey**
**Application November 17, 1942, Serial No. 465,846**
**1 Claim. (Cl. 206—79)**



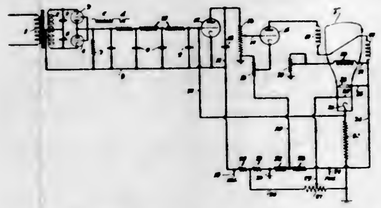
A handling means for cartridge ammunition comprising a single flexible tape provided with two spaced parallel inner rows of elongated slits transversely staggered in overlapping relation to each other, and of predetermined individual dimensions lengthwise of the tape, and two outer rows of elongated slits individually of lesser dimensions lengthwise of the tape, the shorter slits in the outer rows being in transverse centralized registry with the slits of the respective inner rows to provide cooperating pairs of transversely registering loops extending in spaced parallel rows



lengthwise of the tape, the cooperating pairs of slits in the associated inner and outer rows being in staggered relation to the cooperating pairs of slits in the other associated inner and outer rows whereby the cooperating pairs of loops in the respective rows are correspondingly staggered relatively to each other, and cartridges extending transversely through the pairs of cooperating loops alternately in reversed position and removably fixed therein on said tape.

---

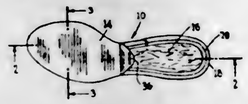
**2,391,082**
**TELEGRAPH CODE RECORDER**
**Harold Edward Beste, East Rutherford, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware**
**Application February 11, 1944, Serial No. 521,901**
**5 Claims. (Cl. 178—88)**



1. A telegraph code receiver, comprising a cathode-ray tube having a deflection system and a surface upon which signals can be rendered visible, means to cause code signals of high frequency oscillations to become temporarily visible upon said surface at different times, said means comprising an amplifying circuit tuned to said oscillations and adjusted to yield rectangular signals, means to convert said rectangular signals into A-shaped signals corresponding in amplitude to the lengths of said rectangular signals, means to apply said A-shaped signals to said deflection system, means to cause said rectangular signals to turn on the ray of said cathode-ray tube for periods of time in accordance with the lengths of said rectangular signals, and means to produce relative rotation between said cathode-ray tube and its beam.

---

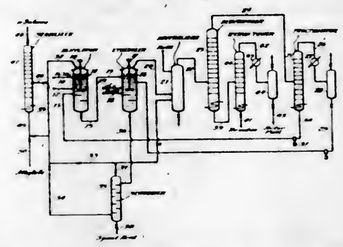
**2,391,083**
**SHOE**
**Dominick J. Calderazzo, Dolgeville, N. Y.**
**Original application July 25, 1942, Serial No. 452,312. Divided and this application April 30, 1943, Serial No. 485,110**
**6 Claims. (Cl. 36—30)**



1. In a shoe having a midsole with heel, shank, and fore portions, a precut outsole predominantly comprising a wear portion beneath the fore portion of the midsole, said outsole having a stub shank portion extending from the rear edge of said wear portion and lying beneath the front of the shank portion of the midsole, said outsole stub shank portion being as wide as the portion of the shank of the midsole which it underlies, and a short extension integral with and projecting rearwardly from the back of said stub portion, said extension terminating short of the heel portion of the midsole and lying beneath a more rearwardly disposed part of the shank portion of the midsole, said extension being narrower than the part of the shank of the midsole which it underlies.

---

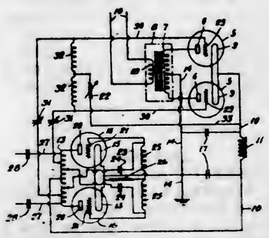
**2,391,084**
**KNOCK-RESISTANT MOTOR FUEL**
**Don R. Carmody, Newton, Iowa, assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application June 19, 1943, Serial No. 491,487**
**4 Claims. (Cl. 44—53)**



1. The process of making motor fuel from a mixture of hydrocarbon gases containing normal butylene, isobutylene and isobutane obtained from the cracking of petroleum oils which comprises reacting said gases in an etherizing zone with methanol in the presence of sulfuric acid under conditions at which methyl tertiary butyl ether is formed from said isobutylene and methanol and normal butylene is largely unaffected, separating said methyl tertiary butyl ether from the unreacted gases, reacting the remaining gases containing normal butylene and isobutane in substantial amount in an alkylating zone with olefin hydrocarbons under alkylating conditions in the presence of sulfuric acid of 85 to 100 per cent concentration whereby said isobutane in said gases is alkylated by said olefins and transferring spent acid from said alkylating zone to said etherizing zone to effect etherization of further quantities of isobutylene therein.

---

**2,391,085**
**THERMIONIC OSCILLATOR**
**Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware**
**Application September 28, 1943, Serial No. 504,127**
**8 Claims. (Cl. 250—36)**

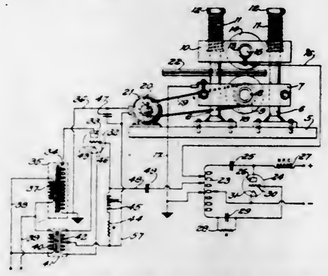


8. In combination, a rectifier for low frequency, high voltage, alternating current, an oscillator for generating high frequency alternating

currents, connected to said rectifier for receiving rectified current therefrom, and means including means for supplying alternating current from said oscillator to said rectifier for adjusting the voltage of the current delivered thereby to said oscillator in accordance with changes in the voltage of the alternating current supplied by said oscillator to said rectifier.

---

**2,391,086**
**RADIO FREQUENCY MOTOR CONTROL**
**Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware**
**Application December 4, 1943, Serial No. 512,911**
**2 Claims. (Cl. 219—47)**



1. Heating apparatus comprising means including a vacuum tube oscillator for generating alternating current, means including said oscillator for establishing an electrostatic field, means for advancing material to be heated through said field, a rectifier, means for supplying alternating current from said oscillator to said rectifier for rectification, and means including means utilizing rectified current from said rectifier for adjusting the rate of advance of said advancing means.

---

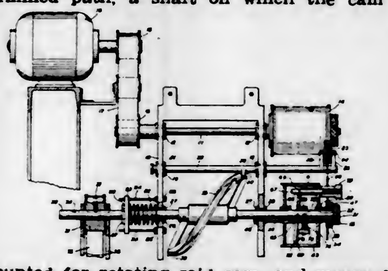
**2,391,087**
**OIL SOLUBILIZING COMPOSITIONS**
**Theodore R. Donlan, Union, and Albert Gathman, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application December 17, 1941, Serial No. 423,302**
**3 Claims. (Cl. 252—161)**

1. An oil solubilizing composition, comprising a mineral oil soluble sulfonate extracted from a petroleum oil in an amount between 50 and 80 per cent by weight, a mono-unsaturated fatty acid containing about between 10 and 20 carbon atoms in the molecule, in an amount between about 2 and 5 per cent by weight, a sodium-alkyl-naphthalene-sulfonate in an amount between about 1 and about 4 per cent by weight, and between 15 and 25 per cent by weight of a monohydric alcohol containing between 3 and 6 carbon atoms in the molecule.

---

**2,391,088**
**TAKE-UP APPARATUS**
**Alexander C. Frankwich, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application August 11, 1944, Serial No. 549,012**
**8 Claims. (Cl. 242—25)**

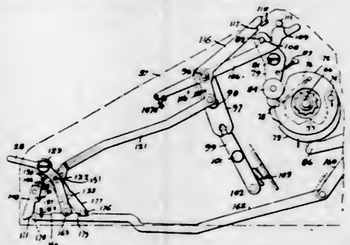
1. In a take-up apparatus, a reciprocable strand distributor, a cam associated with said distributor for reciprocating said distributor along a predetermined path, a shaft on which the cam is



mounted for rotating said cam, and means for adjusting the position of said shaft to vary the length of said path.

---

**2,391,089**
**KEYBOARD RELEASE MECHANISM**
**Carl M. Friden, Pleasanton, and Anthony B. Machado, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California**
**Application November 10, 1942, Serial No. 465,112**
**6 Claims. (Cl. 235—145)**



1. In a calculating machine having a register, actuating means therefor, cyclically operable drive means for said actuating means, and means including ordinal rows of keys for controlling the entry of values by said actuating means into said register: latching means for each row of said keys, a swingable gate normally urged to locking position where said gate prevents movement of said latching means, a bail for moving said latching means to release depressed keys, means including a link actuated when said drive means is stopped at the end of an operation, said link being normally urged toward engagement with said bail, and settable means operative in one position to maintain said link out of engagement with said bail, said settable means upon being set in another position releasing said link for engagement with said bail, said link in engaging said bail swinging said gate out of locking position.

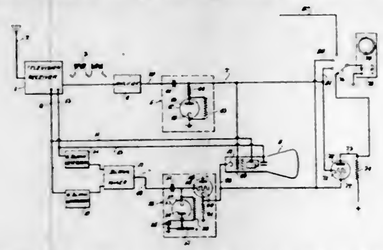
---

**2,391,090**
**MONITORING DEVICE FOR TELEVISION SYSTEMS**
**Thomas T. Goldsmith, Jr., Cedar Grove, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware**
**Original application June 21, 1941, Serial No. 399,055. Divided and this application August 5, 1943, Serial No. 497,455.**
**2 Claims. (Cl. 178—7.5)**

1. In a television system, a cathode-ray tube and a vacuum tube, means to apply a television



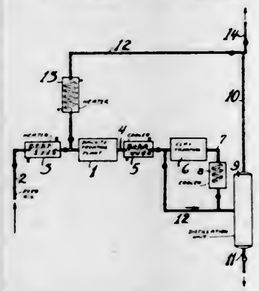
picture signal to the control grids of each of said tubes, means to apply blanking signals to the



cathodes of said tubes, and means for monitoring a composite mixture of said signals.

---

**2,391,091**
**REFINING PETROLEUM OILS**
**Amiot P. Hewlett, Summit, and Gerald E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**Application December 20, 1939, Serial No. 310,094**
**7 Claims. (Cl. 196—28)**



1. Process for the treatment of prime cut petroleum oils comprising contacting said petroleum oils with a catalyst consisting of bauxite in the vapor phase at a temperature in the range from about 780° F. to 850° F. whereby substantially no cracking of the oil occurs and substantially no gas is formed.

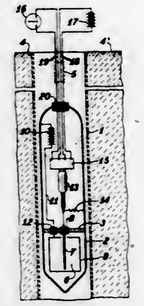
---

**2,391,092**
**POLYSTYRENE SHEET MATERIAL**
**William Horback, Newark, N. J., assignor to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application June 9, 1942, Serial No. 446,377**
**8 Claims. (Cl. 260—32)**

1. Solution for use in preparing polystyrene material, comprising polystyrene dissolved in a solvent medium consisting essentially of a substance, selected from the group consisting of aromatic hydrocarbons, chlorinated aliphatic and aromatic hydrocarbons, and mixtures thereof, as solvent for the polystyrene, and from 1 to 5%, based on the volume of the solvent, of an alcohol which is a non-solvent for the polystyrene, said alcohol being selected from the group consisting of liquid aliphatic monohydric alcohols containing at least 5 carbon atoms, liquid polyhydric alcohols and liquid aromatic alcohols.

---

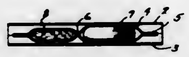
**2,391,093**
**RADIOACTIVITY WELL-LOGGING**
**Lynn G. Howell, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application August 12, 1938, Serial No. 224,504**
**9 Claims. (Cl. 250—83.6)**



1. A method of measuring radiation that comprises subjecting a compressed gaseous medium, in the presence of radiation, to a constant electrical potential sufficient to cause a continuous current flow proportional to the intensity of said radiation, continuously measuring said current flow without appreciably altering the potential on the gaseous medium, and continuously recording the measurement.

---

**2,391,094**
**PROPHYLACTIC PACKAGE**
**Frank G. Karg, Chicago, Ill.**
**Application February 23, 1942, Serial No. 431,961**
**5 Claims. (Cl. 206—63.2)**



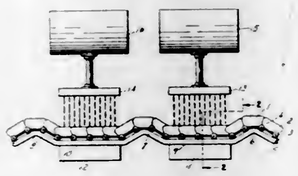
1. In a prophylactic package, an envelope of transparent non-metallic film material, a surgical appliance strapped in a compressed state so as to occupy only a part of the interior of said envelope, and a separate container of antiseptic substance occupying the other part of the interior of the envelope.

---

**2,391,095**
**VULCANIZED HIGH-PRESSURE POLYMERS**
**Henry B. Kellog, Union City, and Per K. Frolich, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application November 8, 1941, Serial No. 418,316**
**17 Claims. (Cl. 260—79)**

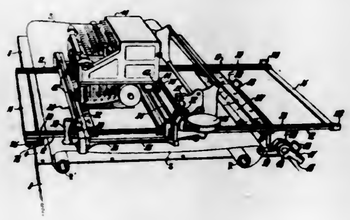
1. The process of preparing cured interpolymers of ethylene comprising subjecting a mixture containing at least 75 mol per cent of ethylene and about 1 to 25 mol per cent of a poly-olefin to interpolymerization conditions at a pressure of more than 500 atmospheres to produce an interpolymer having substantial unsaturation and physical characteristics ranging from those of a viscous liquid to a plastic solid, and thereafter heating said interpolymer with a sulfur.

2,391,096
**APPARATUS FOR THE LIQUID TREATMENT OF FIBROUS MATERIAL**
Edward Knight, Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application November 12, 1941, Serial No. 418,758
4 Claims. (Cl. 68—9)



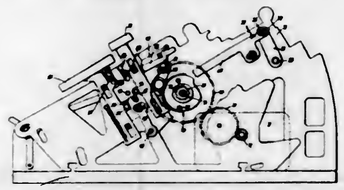
1. Apparatus for the liquid treatment of fibrous material comprising perforate conveyor means, a track on which the conveyor is supported adjacent its sides for movement along the track, means for applying liquid to fibrous material on the conveyor means, means for elevating a portion of the conveyor means adjacent each side of the region where the liquid is applied to confine the liquid applied and prevent its flowing along the conveyor means comprising rises in the track, and means positioned beneath the conveyor for withdrawing liquid from the fibrous material.

2,391,097
**TYPEWRITING MACHINE**
Frank P. Kuhl, New York, N. Y., assignor to Underwood Corporation, a corporation of Delaware
Application June 14, 1943, Serial No. 490,945
13 Claims. (Cl. 197—3)



13. A typewriting machine comprising a substantially flat platen, a vertically movable supporting frame normally supported upon the upper surface of the platen and constructed and arranged so that the forward and rear margins of the platen are unobstructed for the full dimension of the platen for the extension of a work sheet longer than the platen over the edges and into positions below the plane of the platen and that the two side margins of the platen are unobstructed for the extension of a work sheet wider than the platen outwardly beyond the corresponding edges of the platen in the direction of the plane of the platen and means for supporting the frame for vertical movement with relation to the platen to permit the insertion and removal of a work sheet.

2,391,098
**CALCULATING MACHINE**
Anthony B. Machado, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application April 3, 1944, Serial No. 529,332
2 Claims. (Cl. 235—75)



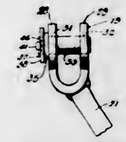
1. In a calculating machine having an accumulator, actuating means therefor, transmission mechanism to control actuation of said accumulator by said actuating means, means tending to adjust said transmission mechanism to neutral, means movable to adjust said transmission mechanism to cause registration in said accumulator upon operation of said actuating means, drive means for said actuating means including a cyclic clutch and a control therefor normally occupying a clutch disengaging position and movable to a clutch engaging position, an operation key, means actuated by depression of said key for moving said movable means to adjust said transmission mechanism, means actuated by depression of said key and including two members for moving said clutch control to clutch engaging position, means for disengaging one of said members from said clutch control after said clutch control has been moved to clutch engaging position, said other member being adjustable to two positions, said other member being capable of moving said clutch control to clutch engaging position in one of said positions but being incapable of moving said clutch control in the other position, means controlled by said drive means to retain said clutch control in clutch engaging position when said drive means is out of full cycle position, cooperating means on said clutch control and said other member to enable said clutch control to retain said other member in actuated position in both its adjusted positions, and cooperating means on said key and said clutch control moving means to enable said clutch control moving means to retain said key in depressed position whereby in both single cycle and plural cycle operations said transmission mechanism is retained in registering adjustment as long as said clutch remains engaged.

2,391,099
**LUBRICATING OIL COMPOSITION**
John G. McNab, Cranford, and Carroll J. Wilson and Carl Winning, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 31, 1941, Serial No. 425,139
7 Claims. (Cl. 252—32.5)

1. A lubricant comprising a major proportion of a mineral oil base stock, about 0.02% to about 2.0% of a salt of a polybasic inorganic acid which contains at least one oil-solubilizing substituent organic group, said salt being a salt of a metal selected from groups I, II, III, IV and VIII of the periodic table and having a tendency to cause corrosion of metal surfaces during use in said lubricant, and about 0.02% to about 2.0% of an alkylation product obtained by reacting p-cresol with isobutene in the presence of a catalytic amount of sulfuric acid, said product having a molecular weight of about 220, a chemical composition corresponding to the empirical formula $C_{15}H_{24}O$, and being, when purified, a white crystalline solid having a melting point of about 69.2° to about 69.4° C.



2,391,100
**CONNECTING PIN HOLDER**
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 9, 1943, Serial No. 497,960
2 Claims. (Cl. 85—5)



1. In an attaching structure for connection with a member having a pin-receiving portion, an attaching head having opposed walls for the reception of said pin-receiving portion therebetween, said walls having pin-receiving sections, a headed pin advanceable in the section of one of said walls and through the pin-receiving portion of said member into the other of said sections for connecting said member with the attaching head while the pin-head is disposed upon the outer side of the one wall, a pin-blocking member having a stem mounted in the one wall for endwise movement transversely of said walls and having a spring-holding portion in the space between said walls, a spring about said spring-holding portion and exerting a force thereon, while reacting against a portion of the attaching head, for urging the blocking member inwardly toward the outer side of the one wall, said blocking member being pivotable about the axis of said stem to selectively dispose a portion of the blocking member in axial registry with the pin where abutment with the pin will prevent accidental retraction thereof or to dispose the blocking member out of such registry to facilitate retraction of the pin, and restraining means for the blocking member and operable, when the blocking member is held inwardly by said spring, for axial abutment with the pin to prevent accidental displacement of said blocking member laterally from the pin.

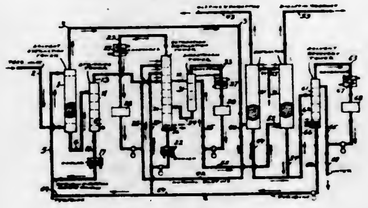
2,391,101
**TELESCOPIC STRUCTURE**
Frank W. Odin, Chicago, Ill.
Application June 12, 1944, Serial No. 539,981
7 Claims. (Cl. 287—58)

1. In combination, two telescoping members, the outermost member having an elongated slot extending through one end thereof to impart resiliency to said end, a sleeve encompassing and mounted thereupon for rotation and for lengthwise movement with respect to said slotted end, and a projection on the inner face of the sleeve, adapted to be positioned to extend into said slot, whereby upon rotation of said sleeve said projection will move out of the slot to contract said slotted end to clamp the inner member, said projection being also movable along said slot



when positioned therein and when said sleeve is moved lengthwise of said slotted end.

2,391,102
**SEPARATION AND PURIFICATION OF HYDROCARBONS**
John A. Patterson, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 1, 1943, Serial No. 470,977
7 Claims. (Cl. 260—681.5)

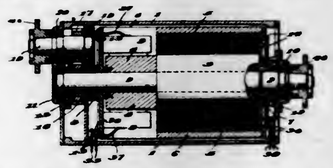


1. The process of separating an individual unsaturated hydrocarbon of the $C_3$ to $C_8$ range from a complex hydrocarbon mixture, which comprises treating the mixture with a cuprous complex salt solution containing a basic reacting organic nitrogen compound, separating the extract and raffinate solutions, removing the cuprous complex salt from the extract solution and solvent from the raffinate solution, and subjecting the resultant products to an extractive distillation in which said basic reacting organic nitrogen compound is employed as extractive solvent.

2,391,103
**MOTOR WITH SEPARATE DRIVE SHAFTS**
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application February 12, 1943, Serial No. 475,640
2 Claims. (Cl. 172—36)

1. The combination of an electric motor comprising an armature and shaft, field windings, a housing for said field windings, and a support in which said housing is rotatable, said support having bearings directly supporting said armature shaft at each end thereof for rotation in one di-

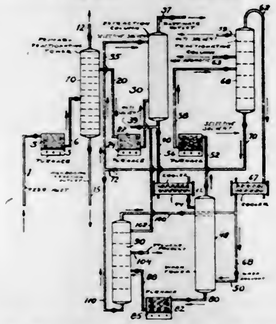
rection and other bearings for supporting said housing at each end thereof for rotation in the



opposite direction, and separate power take-off means for said housing and for said shaft.

---

2,391,104
**VAPOR PHASE EXTRACTION**
**Chester L. Read, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application August 27, 1942, Serial No. 456,303**
**7 Claims. (Cl. 260—674)**



4. The method of recovering toluene from a naphtha containing toluene and non-aromatic components which comprises obtaining a naphtha fraction boiling within the range of from about 180° F. to about 260° F., vaporizing said fraction, contacting said vaporied fraction with about 100% to 300% by volume of a liquid selective solvent for toluene at a temperature ranging from about 210° F. to about 320° F. under such conditions as produce a liquid extract phase containing toluene together with about 5% to 10% non-aromatic components and a vaporous raffinate, separating said extract phase from said vaporous raffinate, adding an antisolvent to said extract phase, contacting said extract phase with about 50% to 200% by volume of a paraffinic wash solvent in a washing one at a temperature of about 70° F. to 100° F., in such a manner that practically all of the non-aromatic components together with a minor amount of toluene are washed out of said extract phase, said wash solvent having a boiling range different from that of toluene, withdrawing said extract phase from said washing zone and recovering toluene therefrom by distillation.

---

2,391,105
**LIQUID-ELEVATING APPARATUS**
**Jesse C. Reed, Dayton, Ohio**
**Application September 20, 1944, Serial No. 555,009**
**7 Claims. (Cl. 103—72)**

1. Liquid-elevating apparatus of the character set forth comprising a casing having a liquid outlet, a drive pulley rotatably supported in said casing adjacent to said outlet, a rigid frame depending from said casing into the body of liquid to be elevated, a weight structure slidably carried by said frame, a windlass rotatably mounted on said casing, cable means connected with said windlass



and from which said weight structure is suspended for raising and lowering movement on said frame, a second pulley connected with said weight structure, an endless belt passing around said pulleys, and means for rotating said drive pulley.

---

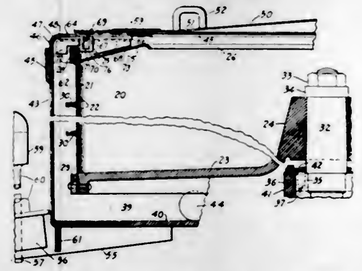
2,391,106
**METHOD OF MAKING ARTIFICIAL TEETH**
**Jacob A. Saffir, Chicago, Ill., assignor to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York**
**Application September 24, 1941, Serial No. 412,057**
**6 Claims. (Cl. 18—55.1)**



3. The method of forming artificial teeth of heat hardenable material which includes forming a unitary sheath conforming generally to the size and shape of a tooth to be produced, the sheath having an opening in the top portion thereof and being formed of a plastic resin material which makes the sheath destructible by heat at a temperature below the hardening temperature of the tooth material, disposing a predetermined amount of heat hardenable tooth material in the sheath through said opening, applying pressure to force said material into contact with the sheath walls and provide an outer layer of tooth material and a central cavity, disposing a predetermined amount of different heat hardenable tooth material in said cavity, applying pressure on said different tooth material to shape the same, and then heating the sheath and tooth materials to a temperature at least as high as the highest hardening temperature of the tooth materials and above the temperature at which the sheath is destructible.



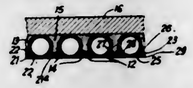
2,391,107
**AIR CURRENT LOCKING DEVICE**
**Ernest A. Stienen, Yorktown, N. Y.**
**Application May 26, 1943, Serial No. 488,540**
**2 Claims. (Cl. 210—63)**



1. An air locking device for a centrifugal extractor comprising a cylindrical casing; a perforated basket rotatively supported in the casing, the walls of the basket being spaced from the walls of casing; an outer cover for the casing spaced from the top of the basket and having a central opening; a removable central cover normally closing the central opening; a ring-shaped latch depending from the central cover and passing through an opening in the outer cover; brackets depending from the outer cover at the side of the latch; a shaft rotatively supported in the brackets and having portions extending beyond the brackets; vanes secured to said shaft portions, extending into the clearance space between the basket and the casing; and an elongated latch block secured to the shaft between the brackets normally extending vertically downwards parallel to the ring-shaped latch opposite the opening therein, the latch block being adapted to be rotated into the opening in the ring-shaped latch when the shaft is rotated by the vanes under action of the movement of the air when the basket is rotating.

---

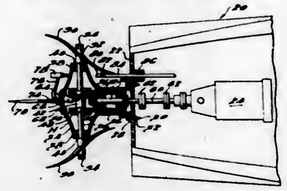
2,391,108
**FLUID COOLED WALL**
**James E. Trainer, Fairlawn, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey**
**Application August 6, 1941, Serial No. 405,620**
**15 Claims. (Cl. 122—6)**



1. A composite heat transfer wall structure comprising, a tubular element having a convex area along at least one side thereof, and means forming an extension on said element to provide an exposed surface substantially tangent to said convex area, said extension being solid in cross section transversely of said element and having its total area of engagement with said element substantially continuous throughout an arc of approximately 90° minimum, said means including bars of polygonal cross section paralleling said element at circumferentially spaced locations, each bar having intersecting surfaces defining an inner edge in proximity to said element and an additional surface in the plane of said exposed surface, said inner edges being positioned adjacent the ends of said arc between said plane and the chord of said arc, said intersecting surfaces forming welding recesses adjacent the wall of said element at opposite sides of each edge, and weld metal deposited within said recesses integrally connecting said bars with said element.

---

2,391,109
**MARINE PROPULSION**
**Charles Douglas Van Patten, Flint, Mich.**
**Application August 20, 1941, Serial No. 407,533**
**14 Claims. (Cl. 115—49)**



8. In combination with a water-borne craft having a transom, a propeller mounted abaft of said transom comprising a generally circular disc-like element; means mounting said element for rotation about a horizontal axis disposed transversely to the direction of travel, said element being constructed and arranged with its general plane of thickness in non-perpendicular relationship with said axis and having radially-oppositely disposed, axially-spaced segments thereof warped toward tangency with planes perpendicular to said axis.

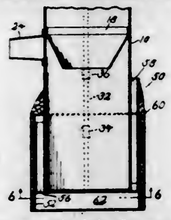
---

2,391,110
**MIXING DEVICE**
**James L. Walker, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application July 3, 1944, Serial No. 543,306**
**4 Claims. (Cl. 259—4)**



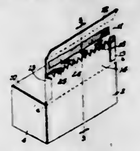
1. A contacting device for fluid substances comprising, in combination, an elongated tubular shell provided with an inlet means and an outlet means, a plurality of bushings of differing widths spaced in said shell between the inlet means and the outlet means with the outside surfaces of said bushings in contact with the inner surface of the shell, a rod arranged in the shell coaxial therewith and longitudinally movable from a first position to a second position, perforated baffles carried by said rod, said baffles being equal in number to the bushings in the shell and slidable in the bushings and spaced on the rod so that when the rod is in its first position none of the baffles is adjacent a bushing, but as the rod is moved from its first to its second position an increasing number of the baffles is brought in opposition to the bushings.

**2,391,111**
**HEATER CONSTRUCTION**
**Leo N. Walter, Oak Glenn, Ill.**
**Application February 25, 1944, Serial No. 523,826**
**10 Claims. (Cl. 219—39)**



1. In a heater, a cylindrical member having an open end and a closed end, a heating element positioned in said closed end, a fan positioned in said open end and adapted to force air through said cylindrical member toward said heating element, an annular member secured to the walls of said cylindrical member intermediate the ends thereof, the inner edges of said annular member being directed inwardly and downwardly to define the upper limits of a mixing chamber, an outlet penetrating the wall of said cylindrical member closely adjacent and below said annular member, and a cylindrical member enclosing the lower portion of said first named cylindrical member and extending therebelow and providing a combustion chamber beneath said first cylindrical member.

**2,391,112**
**FIRST AID KIT**
**Zygmunt Wolteger and Henry Lerer, New York, N. Y.**
**Substituted for abandoned application Serial No. 425,370, January 1, 1942. This application November 24, 1943, Serial No. 511,760**
**3 Claims. (Cl. 206—63.2)**

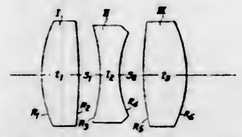


1. Dispensing device for sterile bandage and the like, comprising a carton, said carton having a storage compartment for holding a roll of said bandage, a first side of said compartment extending beyond one edge thereof and terminating in a serrated tongue, a second adjacent side of said compartment also extending beyond said edge to a greater extent than said first side and terminating in a relatively narrow flap, said second side being bent at said edge so as to lie closely adjacent to the extending part of said first side and so as to form a relatively narrow passageway therebetween, through which passageway said bandage may be pulled out in sheet form and torn off, said serrated tongue preventing retrograde motion of the bandage, said two extending sides being held relatively to one another by retaining flaps formed from said second side at the edges thereof and bent around the edges of said first side for a predetermined distance, said first mentioned flap at the termination of said second side being capable of bending over the exposed portion of said bandage lying beyond said serrated tongue, whereby said exposed portion is protected against contamination.

**2,391,113**
**LUBRICATING COMPOSITION**
**John C. Zimmer, Union, and Arnold J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application December 19, 1942, Serial No. 469,513**
**2 Claims. (Cl. 252—36)**

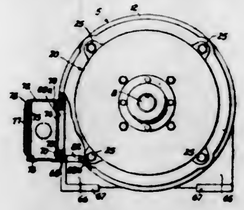
1. A water-resistant, high temperature, extreme pressure lubricant of the grease type, consisting of about 78.71% asphaltic base lubricating oil having a viscosity of 72 S. S. U. at 210° F., 9.29% lithium soap of hydrogenated fish oil acids, 9% lead oleate, 0.5% zinc naphthenate, 0.5% aluminum stearate and 2% chlorinated wax.

**2,391,114**
**RAPID OBJECTIVE**
**George H. Aklin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application November 30, 1943, Serial No. 512,325**
**3 Claims. (Cl. 88—57)**



1. An objective consisting of three simple air spaced elements of which the inner one is biconcave with its weaker surface forward and the outer two are biconvex with their respective stronger surfaces outward, characterized by the refractive indices of both positive elements being between 1.65 and 1.85 and by the negative element having a lower refractive index and dispersive index than each of the positive elements and also characterized by the sum of the focal lengths of the positive elements being between 1.15 and 1.30 times the focal length of the objective.

**2,391,115**
**CONDUCTOR CONNECTION FOR ELECTRICAL MACHINES**
**Gordon R. Anderson, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois**
**Original application June 29, 1942, Serial No. 448,933. Divided and this application August 14, 1943, Serial No. 498,647**
**3 Claims. (Cl. 171—252)**



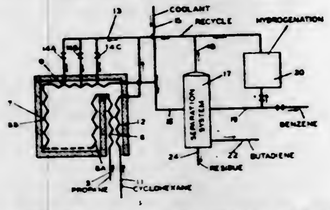
1. In a dynamo electric machine including a stator having a winding, a frame member for enclosing said stator, formed to provide longitudinally spaced mounting projections on opposite sides thereof, the frame member being formed further, to provide a laterally projecting boss arranged substantially between the mounting projections on one side of the member, said boss providing angularly related wall portions and having an opening in each of said wall portions thereof, affording selective access to the frame interior for conductor connection to the stator winding therein, and a conduit box removably secured to said boss over one of said openings, said conduit box including a cover removably attached thereto, adapted for direct securement to said boss upon removal of the conduit box, to close said one opening.



**2,391,116**
**METHOD OF PRODUCING GRANULAR ADSORBENT**
**Kenneth D. Ashley, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application March 26, 1942, Serial No. 436,289**
**10 Claims. (Cl. 252—300)**

1. The method of producing a granular adsorbent from bauxite fines, which comprises intimately admixing the fines with an aqueous solution containing 5 per cent to 12 per cent by weight of sodium silicate based on the fines and of such concentration as to wet and agglomerate the fines, continuing the mixing for a sufficient period to agglomerate the fines into non-coalescent granular particles, drying the particles so formed, washing the dried particles with dilute mineral acid, and washing the treated particles with water to remove therefrom soluble salts.

**2,391,117**
**PROCESS FOR THE PRODUCTION OF BUTADIENE**
**Charles E. Ayres, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application May 7, 1943, Serial No. 486,032**
**12 Claims. (Cl. 260—680)**

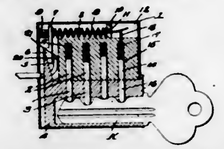



1. A process for the production of butadiene from cyclohexane which comprises heating a hydrocarbon carrier fluid to a temperature above about 1100 but not above about 1500° F., heating cyclohexane to an elevated temperature below that of the carrier fluid, admixing the cyclohexane with the carrier fluid in proportions within the range of 1 to 10 volumes of said carrier fluid per volume of cyclohexane such that the temperature of the resulting mixture is substantially instantaneously brought within the range of 1100 to 1500° F., holding the resulting mixture at a temperature within said range for a period of time within the range of 0.1 to 2 seconds sufficient to effect conversion of said cyclohexane to butadiene, cooling the resultant mixture, and separating butadiene therefrom.

**2,391,118**
**PIGMENTS AND PAINTS AND METHOD OF MAKING SAME**
**Louis E. Barton, Windsor, Conn.**
**No Drawing. Application November 5, 1942, Serial No. 464,659**
**7 Claims. (Cl. 106—256)**

1. As a new composition of matter a protective coating composition comprising an oleaginous, film-forming and drying vehicle pigmented with an essentially pure anhydrous opaque white lead silicate pigment physico-chemically reactive with said vehicle, said pigment being formed by heating a mixture of lead compounds which upon heating will supply to the product only lead oxide in an amount between about 40% and about 88% (PbO) and silica at a temperature sufficiently high to chemically combine the oxides in the solid phase without fusion.

**2,391,119**
**IGNITION LOCK AND SWITCH**
**Rufus J. Beagles, Fort Pierce, Fla.**
**Application July 5, 1944, Serial No. 543,588**
**3 Claims. (Cl. 200—42)**

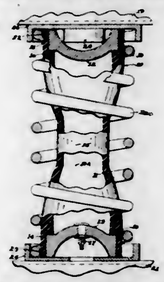


1. The combination with a key-operated barrel lock including cooperating pins, of a cam rotatable with the barrel of the lock, a structure shiftable by the cam when rotated in one direction, said structure including the movable contact, of a switch and a flexible strip having an opening, means movable with one of the pins for movement into the aperture when said strip is shifted in one direction by the cam and the switch closed, means for automatically disengaging the pin from said strip when the key is removed, and means for automatically returning the strip and the movable contact to their initial positions when the strip is released, thereby to open the switch.

**2,391,120**
**SPRING MEANS**
**Arthur B. Bertheimann, Madison, Wis.**
**Application May 29, 1941, Serial No. 395,806**
**7 Claims. (Cl. 267—34)**

1. A pneumatic device of the character described comprising a substantially cylindrical wall element, said wall element being closed at its upper and lower end to provide a chamber, a valve means in communicating relationship with said chamber whereby a predetermined amount of a compressible medium may be inserted into said chamber, and a flexible portion medially said

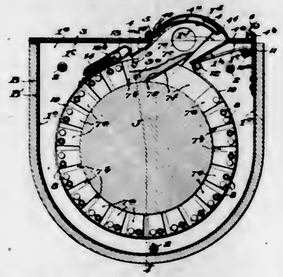
wall element, said portion being of a diameter substantially less than the diameter of the remainder portion of said wall element, said medial



portion being adapted to function in combination with said compressible medium to resiliently support said ends of said wall element against movement toward each other.

---

**2,391,121**
**DUST GUARD**
**Donald D. Bryant, Huntington, W. Va.**
**Application August 10, 1944, Serial No. 548,835**
**15 Claims. (Cl. 286—6)**

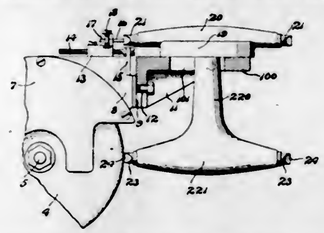


1. A seal for a journal box having a cavity pocket provided with a bore for a journal; said pocket having an opening therein; a closure for said opening; a freely swingable band yieldably mounted within the pocket around and spaced from the journal and having its ends secured adjacent the opening; and a flexible dustguard band within the pocket encircling the entire periphery of the journal and interposed between the journal and swingable band, said dustguard band being insertable in and removable from the pocket by endwise movement through said opening, the trailing end of the dustguard band projecting through said opening below the closure to form a handle.

---

**2,391,122**
**GRINDING WHEEL DRESSER**
**Vincent W. Bunker and Martin De Young, Grand Rapids, and Henry W. Kropf, Muskegon Heights, Mich., assignors of one-half to Gallmeyer & Livingston Company, Grand Rapids, Mich., a corporation of Michigan, and one-half to Brickner-Kropf Machine Company, Muskegon Heights, Mich., a corporation of Michigan**
**Application January 3, 1944, Serial No. 516,784**
**3 Claims. (Cl. 125—11)**

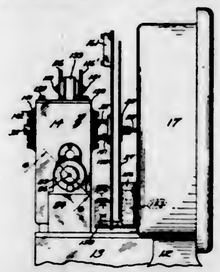
1. In a grinding machine, a grinding wheel, a platform secured in fixed relation to the axis of the grinding wheel, a dressing implement having a base with an under side to rest upon and be moved over the upper side of the platform, said dressing implement having a part extending from the base to one side thereof and a part extending downwardly from the base and at its lower portion having an arm extending inwardly toward the grinding wheel, said second mentioned part passing through said platform and said plat-



form having an opening of relatively large size whereby the dressing implement may be moved over the platform, a feeler attached to said first mentioned part and a dressing cutter for the grinding wheel mounted on and extending from the lower free end of said arm, the free edge of the feeler and the outer point of the dressing cutter being disposed in a plane perpendicular to the upper side of the platform.

---

**2,391,123**
**VARIABLE SPEED-AND-DIRECTION OPERATED PILOT FINDER**
**Oswald S. Carliss and Charles G. Roper, Fairfield, Conn., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application July 2, 1942, Serial No. 449,420**
**21 Claims. (Cl. 74—388)**

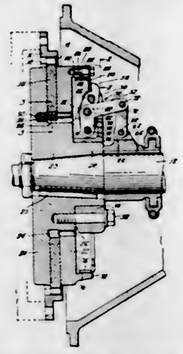


1. Automatic pilot hunting apparatus including the combination of, a pilot movable forward and backward to random positions of dwell, a finder movable to follow up said pilot to attain a position of register therewith, finder controlling electric circuits, a motor powered to run constantly independently of said circuits, controllers for said circuits including elements adapted to affect the transmission of radiant energy and operative in registering relationship to condition said circuits inactively, means confining said elements to respectively separate paths of nonconflicting movement to and from said registering relationship, mechanical connections enabling movement of said pilot away from positions of register with said finder to cause corresponding movement between said elements thereby to condition respectively different circuits actively when said pilot is displaced from said finder in respectively opposite directions, and mechanical connections enabling said motor to drive said finder in opposite directions when respectively different control circuits are actively conditioned including direction reversing clutch mechanism constructed and arranged to permit said finder to dwell when said circuits are inactively conditioned.



---

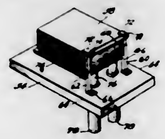
**2,391,124**
**CLUTCH**
**Raymond A. Carlson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**
**Application March 8, 1943, Serial No. 478,331**
**6 Claims. (Cl. 192—68)**



1. In a friction clutch, an axially fixed clutch member, an axially movable clutch member, an axially movable operator member, a toggle link pivoted to said operator member and extending in a generally radially outward direction, a bell crank lever fulcrumed on said fixed member, having an arm extending in a generally axial direction and pivoted to the outer end of said toggle link, an arm extending radially inwardly from its fulcrum, and a lever fulcrumed on said fixed member on an axis located radially outwardly of said bell crank lever, having an arm extending generally substantially radially inwardly and pivoted at its inner end to said radial arm of the bell crank lever, and having an arm extending outwardly and adapted to transmit clutch engaging pressure to said movable clutch member.

---

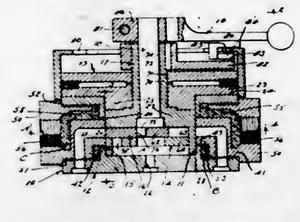
**2,391,125**
**COMMODITY CONVEYING APPARATUS**
**Charles H. Carpenter, Kansas City, Mo.**
**Application May 25, 1942, Serial No. 444,478**
**1 Claim. (Cl. 271—62)**



In a device of the character described; a table top; a pair of standards fixedly carried by said table top formed and relatively positioned to releasably engage undercut edge notches formed in pliable sheets of material forming a stack; a stack plate adjustably carried by said table top; a detent pivotally mounted on each of said standards outside the plane of the notched side wall of said stack of sheets and adapted to extend beyond said standards and over the stack of sheets to limit the upward movement of the stack of sheets carried by said stack plate, and adapted to be moved horizontally from over said stack of sheets to permit the threading of said stack of sheets down onto said standards; and spring means to constantly urge said stack plate upwardly to force the upper sheet of said stack of sheets against said detents.

---

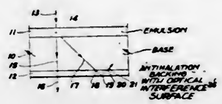
**2,391,126**
**VALVE**
**Samuel C. Carter, Los Angeles, Calif.**
**Application August 17, 1943, Serial No. 498,943**
**22 Claims. (Cl. 251—103)**



1. A valve including a body forming a chamber and having a port communicating with the chamber, a plug operable in the chamber and having a port to cooperate with the port of the body, packing carried by the body to seal between the body and plug, and means operable to occupy the port in the plug so the plug presents a continuous surface to operate past the packing.

---

**2,391,127**
**ANTIHALATION COATINGS**
**Emmett K. Carver, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application February 17, 1942, Serial No. 431,260**
**6 Claims. (Cl. 95—9)**

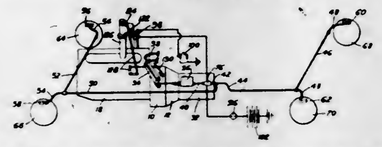



1. A photographic film comprising a photosensitive layer, a transparent support for the layer, and an optical interference layer on the back of the support for reducing the reflection of all halation producing light incident on the optical interference layer at angles less than 60° from the normal, said support and layer having an optical density less than .5 to light normally incident thereon and sufficiently high to absorb effectively all halation producing light obliquely incident thereon at angles greater than 60°, said halation producing light in both instances being that to which the photosensitive layer is sensitive.

2,391,128
**RECOVERY OF PHENOLIC MATERIALS**
Stephen P. Cauley, Jackson Heights, and Vladimir L. Shipp, New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 9, 1941, Serial No. 406,222
2 Claims. (Cl. 260—627)

1. In the recovery of phenolic materials from waste lyes derived from caustic treatment of petroleum hydrocarbons, the improvement comprising adding to the waste lye an amount of a strong acid substantially less than that required for complete neutralization but sufficient to bring about layer formation in the treated lye, separating the oily layer from the reaction mixture, acidifying the oily layer to substantial neutrality and discarding the aqueous layer formed by the second acidification.

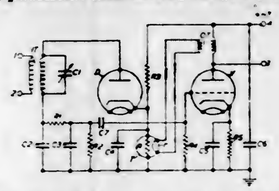
2,391,129
**BRAKE MECHANISM**
Allan C. Chambers, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application August 15, 1939, Serial No. 290,243, now Patent No. 2,297,692, dated October 6, 1942. Divided and this application August 5, 1942, Serial No. 453,639
4 Claims. (Cl. 188—152)



1. In a vehicle brake system provided with means operative, after the brakes are applied, for maintaining the same applied when the vehicle is on any incline, at rest on level ground or when the vehicle is decelerating at or below a predetermined rate, said means including a control unit comprising a casing, a switch mounted within said casing, a spring biasing the movable contact member of said switch to its switch closed position and inertia operated means operative, when and only when the vehicle is decelerating above a certain rate or the vehicle is at rest on a decline exceeding a predetermined degree, to move the movable contact member to its switch open position.

2,391,130
**THERMIONIC VALVE RECEIVING CIRCUITS**
Prafulla Kumar Chatterjea and Charles Thomas Scully, London, England, assignors to Standard Telephones and Cables Limited, London, England, a company of Great Britain
Application May 8, 1943, Serial No. 486,250
In Great Britain July 9, 1942
4 Claims. (Cl. 250—20)

1. Radio receiver quiescent circuit including a diode, means for feeding received signals thereto, means for biasing said diode to a predetermined potential whereby blocking occurs and only signals exceeding said potential can pass through said diode, an amplifier valve having the input thereof connected to the output of said diode and means acting to reduce said predetermined potential when said signals exceed said potential, said last means including a thermistor having a heater and a resistance, a fixed resistor, means connecting said thermistor resistance and said fixed resistor in series with the means determining said potential and means coupling said heater to the anode circuit of said amplifier valve for transferring heating power current from said anode circuit to said heater in proportion to the anode current of the amplifier valve.

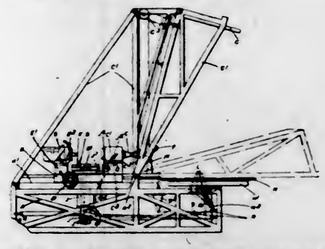


2,391,131
**DOLL**
Alice L. Clark, Mill Valley, Calif.
Application March 5, 1945, Serial No. 581,033
4 Claims. (Cl. 46—164)



1. In a doll head, an outer head covering having a face portion comprising four joined sections arranged alongside one another, the two inner sections at their joined edges forming the nose and chin of the face portion, and the two outer sections together with the inner sections forming the cheeks of the face portion, and a filling inside the covering.

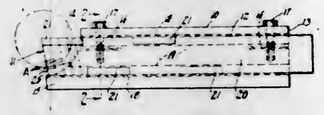
2,391,132
**OPTICAL PROJECTION APPARATUS**
Thomas William Clifford, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application September 20, 1943, Serial No. 503,149
In Great Britain July 20 and 24, 1942
12 Claims. (Cl. 88—24)



1. Profile projection apparatus, comprising a fixed base, a work table for carrying the object whose profile is to be investigated, means for illuminating the object, a projection screen, a projection lens arranged for projecting an image of the profile of the object on the projection screen, a work support mounted on the fixed base and on which the work table is mounted, means for adjusting the work support on the fixed base both rotationally through a small angle about a vertical axis and translationally along such vertical axis, means for adjusting the work table horizontally on the work support in a direction which in one position of angular adjustment of the work support lies parallel to the optical axis of the projection lens, a support for the projection lens mounted on the fixed base, and means for adjusting the lens support horizontally on the fixed base through a small distance transversely to the optical axis of the lens.

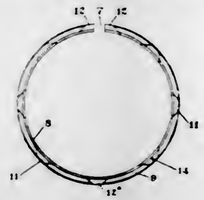


2,391,133
**CUTOFF TOOL**
George A. Cole, East Cleveland, Ohio
Application February 21, 1944, Serial No. 523,291
5 Claims. (Cl. 29—95)



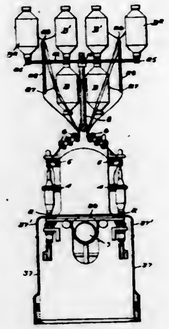
3. A cutting tool of the character described, comprising a supporting blade of ordinary steel of bar form having a cross section which is narrow and deep and is uniform from end to end of the blade, and a series of cutting elements spaced along the upper and lower edges of said blade in two rows in alternating order, each element of each row being opposite a space between two adjoining elements of the other row, said elements being made of high speed cutting steel and each thereof being tapered to provide cutting clearance both rearwardly and downwardly throughout the length of the cutting element as the tool is redressed by alternating use of successive cutting elements along the two edges of the blade and during use of each element is repeatedly resharpened by grinding back its leading end face.

2,391,134
**PISTON RING**
Eugene J. Conrad, Columbus, Ohio
Application March 28, 1942, Serial No. 436,689
1 Claim. (Cl. 309—45)



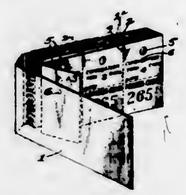
A two part piston ring of metal for a combustion engine, said ring composed of a transversely split one piece base pressure ring having a substantially cylindric interior wall and an annular external projection therefrom of less height than said cylindric wall, said external projection having integral therewith spaced seats with lubricant passages between them extending through the said cylindric interior of said base ring, and a plain flat split ribbon ring of metal removably and expansibly fitting on the exterior of the cylindric portion of said base ring above and resting on said seats of the base ring, and means engaging both said rings for holding them from rotation with respect to each other with the transverse gap in each ring closed by the other ring.

2,391,135
**SPINNING FRAME**
Louis M. Cotchett, Hingham, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Original application July 16, 1941, Serial No. 402,581. Divided and this application November 2, 1943, Serial No. 508,673
10 Claims. (Cl. 57—56)



1. In a spinning frame, the combination with spinning instrumentalities including two lines of spindles positioned at opposite sides of the frame and adapted to support bobbins, and mechanism for driving said spindles, of a cover located between said lines of spindles and extending across the space separating them where its upper surface cooperates with the spindles and bobbins to cause the air currents created by the rotation of the bobbins to keep said surface substantially free from accumulations of lint or fly.

2,391,136
**COMBINATION MINER'S CHECKBOOK**
John A. Daly, Collinsville, Ill., assignor to Daly Ticket Company, Collinsville, Ill., a firm
Application October 26, 1944, Serial No. 560,423
4 Claims. (Cl. 281—5)




1. In a combination miner's check book, the combination of a cover comprising a front and back portion, a strip of checks folded in units of three and having its innermost fold of three checks pasted to the back portion of the cover,

said checks each provided near its top edge with a primary and an auxiliary aperture, said auxiliary aperture being in juxtaposition under the primary aperture, the first or outer check folded back on the first unit of three checks, and said folded checks have a coating of glue on their edges, preventing moisture entering between the folded checks.

---

2,391,137

## MONOAZO HETERO-OXYGEN COMPOUNDS

**Jakob Danuser, Arlesheim, and Rudolf von Capeller, Riehen, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland**

**No Drawing. Application September 11, 1943, Serial No. 502,028. In Switzerland October 12, 1942**

**5 Claims. (Cl. 260—152)**

1. The dyestuffs of the general formula

$$R_1—N{=}N—R_2$$

wherein $R_1$ stands for an aromatic nucleus of the benzene series which contains in 4-position to the azo group an O-alkylene group linked by its oxygen atom to the benzene ring, which alkylene group belongs to a heterocyclic ring fused on in 3- and 4-positions, that part of the heterocyclic ring which is not fused on consisting of 2 oxygen atoms and at least one and not more than 2 carbon atoms and containing the two oxygen atoms separated from each other by at least one carbon atom, and $R_2$ stands for a benzene nucleus which contains a hydroxyl group in ortho-position to the azo group and carries in 4-position to this hydroxyl group a substituent selected from the group consisting of methyl, methoxy and acetylamino.

---

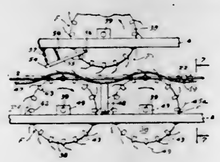
2,391,138

## STATIONARY TYPE HOP PICKING MACHINE

**Florian F. Dauenhauer, Santa Rosa, Calif.**

**Application December 8, 1941, Serial No. 422,049**

**13 Claims. (Cl. 130—30)**



1. In a hop-picking machine, a plurality of picking drums arranged in two substantially parallel rows, the drums in one row being staggered with respect to those in the other row and the vertical distance between the plane of the axes of the drums in one row and the plane of the axes of the drums of the other row being less than the diameters of the drums so that an undulating path of substantial equal depth throughout is formed therebetween, and means for moving vines between the two rows of picking drums, the drums causing the vines to follow the undulating path, and hop-picking means on the drums for removing hops from the vines as they pass between the two rows of drums, the staggering of the drums causing the hop picking means to remove hops continuously from the vines at the top and bottom of the path throughout the entire length of the path.

2,391,139

## PROCESS FOR ALKYLATING ARYLAMINES

**Joseph B. Dickey, Rochester, N. Y., and James G. McNally, Knoxville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application December 15, 1943, Serial No. 514,424**

**3 Claims. (Cl. 260—283)**

1. A process for the N-alkylation of a compound selected from the group consisting of aromatic amines having at least one hydrogen atom attached to the amino nitrogen, and heterocyclic bases containing a nitrogen atom in the ring and having a hydrogen atom attached to the ring nitrogen, which comprises heating this compound with a compound selected from the group consisting of alcohols, aliphatic and alicyclic ethers, and ether-alcohols, in the presence of boron trifluoride as a catalyst.

---

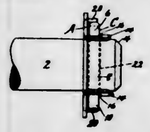
2,391,140

## WASHER AND COTTER PIN LOCK

**June D. Dilley, Huntington, W. Va., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**

**Application August 20, 1943, Serial No. 499,377**

**6 Claims. (Cl. 85—7)**



1. The combination with a member having a transverse opening therethrough, a cotter pin in the opening and having a head portion and a shank portion with spread ends, and a washer carried by said member and locked thereon by said cotter pin, said washer being formed with portions engaging the head and spread shank portions of the cotter pin to thereby lock the cotter pin against longitudinal movement in either direction within said opening.

---

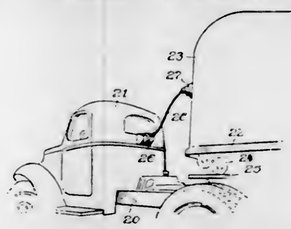
2,391,141

## REEL CONSTRUCTION

**Nicholas F. Dour, Chicago, and Victor R. Stenger, Hinsdale, Ill.**

**Application December 8, 1941, Serial No. 422,058**

**3 Claims. (Cl. 191—12.2)**



1. In combination with a trailer truck, a housing on the tractor portion of the truck, a rewind reel in said housing having a hub portion rotatably mounted on a shaft and a spool portion, a cable on said spool portion having a plurality of conductors therein, spring rewind means connected to said shaft and reel, a plurality of laterally spaced conductor rings on said hub portion of the reel, a conductor block, spring contact fingers on said block in frictional contact with the said rings, an electrical supply cable connected to said contact fingers on said conductor block, separate connectors electrically connecting each of said cable conductors to one of the said rings, means to adjust the tension of said spring rewind means, and braking means whereby the speed of rewind rotation of the reel is controlled upon the release of the cable.



---

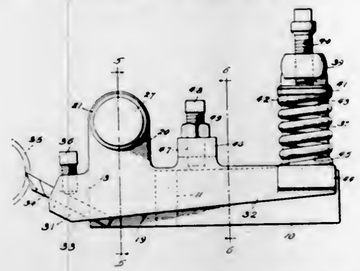
2,391,142

## TOOLHOLDER

**Jerry H. Drake, Thomasville, Ga., assignor to Henry M. Herbener, Thomasville, Ga.**

**Application June 15, 1944, Serial No. 540,389**

**9 Claims. (Cl. 29—97.5)**



1. A tool holder, comprising a side-arm provided between its ends with a lateral shank to be secured to a tool post, a tool holding member disposed upon one side of the side-arm and pivotally mounted between its ends upon the side-arm near one end of the side-arm, the tool holding member having short and long arms extending upon opposite sides of its pivot, an arm mounted upon the opposite end of the side-arm, and a spring engaging the last named arm and the rear end of the long arm of the tool holding member.

---

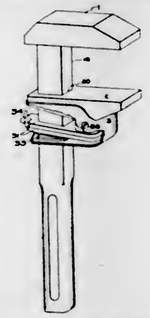
2,391,143

## WRENCH

**August C. Ertner, Seattle, Wash., assignor to Federal Trading Co., Seattle, Wash., a partnership composed of August C. Ertner and J. Frank Thorn**

**Application October 2, 1943, Serial No. 504,727**

**2 Claims. (Cl. 81—152)**



1. A wrench comprising a fixed jaw, a shank integral with said fixed jaw and projecting generally transversely therefrom, a movable jaw slidable on said shank and having a shoulder projecting from the side thereof opposite said fixed jaw and located remote from said shank, the end of said shoulder being inclined toward said shank and fixed jaw, and a plurality of thin latch plates disposed in contiguous face-to-face contact, apertured to embrace said shank and engaging said movable jaw shoulder, being tiltable by pressure of said shoulder thereon, by a force acting to separate said jaws, into pinching engagement with said shank at an angle relative thereto slightly greater than the angle of inclination of said shoulder end relative to said shank, to preserve line contact between said plate and the side of said jaw shoulder farthest from said shank under usual loads, thereby restraining sliding of said movable jaw along said shank away from said fixed jaw, said latch plate being engageable with an appreciable area of said fixed jaw shoulder upon bending under excessive loads, such engagement limiting the degree of possible bending of said plate.

---

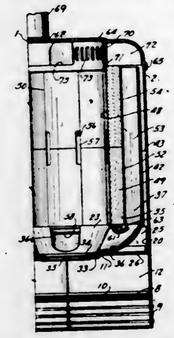
2,391,144

## HEATER

**Edwin Esson, Kansas City, Mo., assignor to Locke Stove Company, Kansas City, Mo., a corporation of Missouri**

**Application September 19, 1941, Serial No. 411,535**

**7 Claims. (Cl. 126—73)**



6. A heater of the character described including a substantially rectangular jacket, a grate basket supported in the jacket including a substantially rectangular plate portion supporting a fire-pot portion, L-shaped ducts having connection with the sides of the fire-pot and opening through the plate portion within corners of said jacket, and a refractory liner supported on said plate portion and providing a fuel magazine above said grate basket, said liner having portions spaced from said corners of the jacket for providing flue ducts coextensive with the magazine at said corners.

---

2,391,145

## FACSIMILE RECORDER

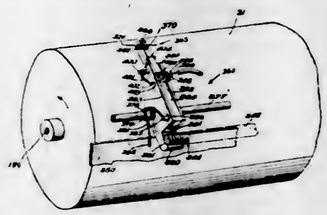
**William G. H. Finch, Newtown, Conn., assignor to Finch Telecommunications, Inc., Passaic, N. J., a corporation of Delaware**

**Original application February 10, 1940, Serial No. 318,230. Divided and this application September 15, 1942, Serial No. 458,397**

**3 Claims. (Cl. 234—71)**

2. In facsimile apparatus having means for supporting a record receiving surface: a record-

ing member comprising a principal arm; means biasing said arm toward said record receiving surface; an auxiliary arm pivotally mounted on said principal arm; additional means biasing said



auxiliary arm toward said record receiving surface; and additional means on said auxiliary arm supporting and positioning a recording stylus.

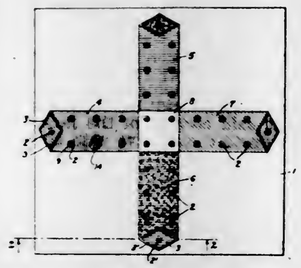
---

**2,391,146**
**PROCESS FOR PRODUCTION OF ALKYLATED ARYL COMPOUNDS**
**Hillis O. Folkins, Skokie, and Carlisle M. Thacker, Highland Park, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio**
No Drawing. Application August 16, 1943, Serial No. 498,889
9 Claims. (Cl. 260—668)

1. The method of preparing ethyl benzene which comprises contacting a petroleum fraction composed essentially of hexane and cyclohexane with a hydrocarbon gas rich in ethylene in such proportion that the cyclohexane and ethylene are present in a mole ratio of about 1 of the former to from 0.1 to 1 of the latter at a temperature of approximately 650° to 1200° F. under a pressure of approximately atmospheric to 500 lbs. per sq. in. and at a space velocity of 300 to 10,000 with a dehydrogenation catalyst and recovering ethyl benzene from the reaction products.

---

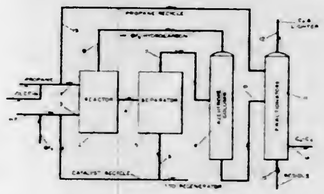
**2,391,147**
**GAME BOARD**
**Joe A. Fredriksson, San Francisco, Calif.**
Application May 25, 1942, Serial No. 444,391
5 Claims. (Cl. 273—131)



1. In a game board adapted for playing with a plurality of distinguishably colored apertured playing pieces, the improvement which comprises two double rows of spaced pins of a size adapted to receive the apertured playing pieces projecting from the face of the board arranged in the form of a cross with four arms of equal length, and with two rows of the pins in each arm extending through the intersection of the cross arms, the pins of each row being of an even number and with two of the pins of each row falling within the intersection of the cross arms and also forming a continuation of the two rows of pins extending in the crossing direction.

---

**2,391,148**
**PROCESS FOR REACTING PROPANE WITH OLEFINS**
**Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
Application December 13, 1943, Serial No. 514,155
14 Claims. (Cl. 260—683.4)



1. The process which comprises reacting propane with an alkylating agent in the presence of a catalyst consisting of hydrofluoric acid containing a minor proportion of boron fluoride.

---

**2,391,149**
**PROCESS FOR TREATING HYDROCARBON CONTAINING ORGANICALLY COMBINED FLUORINE**
**Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
No Drawing. Original application August 30, 1943, Serial No. 500,553. Divided and this application February 2, 1945, Serial No. 575,923
6 Claims. (Cl. 196—41)

1. A process for treating hydrocarbon containing organically combined fluorine to remove said fluorine therefrom which comprises subjecting said hydrocarbon containing a minor quantity of organically combined fluorine to the action of dehydrated adsorbent silica-containing alumina impregnated with an alkali metal hydroxide at a reaction temperature of from 150 to 550° F. and for a period of time such that said alumina catalyzes decomposition of the organic fluorine compounds present in the hydrocarbon with consequent liberation of the fluorine as hydrogen fluoride and combination of hydrogen fluoride so liberated with said alkali metal hydroxide to give the corresponding alkali metal acid fluoride, said period of time being such that the hydrocarbon effluent from said treatment is substantially free of organically combined fluorine.

---

**2,391,150**
**WINDOW DRAPE ROD HANGING MEANS**
**Francis X. Ganter, Los Angeles, Calif.**
Application March 1, 1943, Serial No. 477,589
10 Claims. (Cl. 160—19)

1. In a means of the class described, a box-like cornice, and a plurality of brackets, each secured at one end to the inner side of a side wall member of the cornice and the opposite end extending angularly and downwardly therefrom, said oppo-

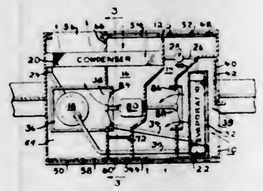




site end of each bracket having a hook portion for supporting a curtain rod.

---

**2,391,151**
**REFRIGERATING APPARATUS**
**J Lowell Gibson, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
Application February 14, 1944, Serial No. 522,211
8 Claims. (Cl. 62—129)

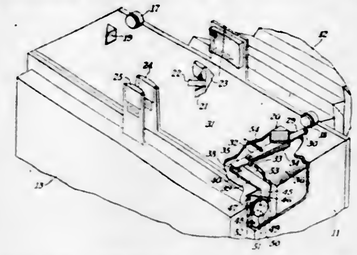


1. An air conditioning unit comprising a casing adapted to be positioned in a window of a space to be conditioned, the front wall and at least a portion of the sides, bottom and top of said casing extending into the space to be conditioned, a partition dividing said casing into two chambers, each of the chambers having a pair of openings leading to the outside atmosphere and another pair of openings leading to the space to be conditioned, fan means for flowing air through each of said chambers, a refrigerating system including an evaporator in one of said chambers and a condenser in another of said chambers, and means for rendering certain of said openings ineffective at times including means for blocking the flow of air through one portion of said condenser when condenser air is discharged into the conditioned space.

---

**2,391,152**
**RANGE FINDER ADJUSTING MECHANISM**
**John Warren Gillon, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
Application December 31, 1943, Serial No. 516,448
4 Claims. (Cl. 95—44)

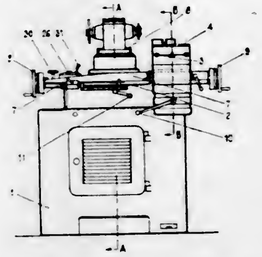
1. In a photographic camera adapted for use with interchangeable lenses of different focal lengths and provided with a portion adapted to be moved along the axis of the camera lens for focusing, the combination with a range finder carried by said camera and having an optical element adapted to be moved in accordance with the adjustments of said portion, a lever carrying said element and pivotally mounted on said camera for movement transversely of said axis to move said element about said pivot, a second lever rockably mounted on and movable as a unit with said portion, a cam carried by said second lever and inclined in a direction transverse to the movement of said portion, a pin on said first lever engaging said cam so that movement of said portion and cam along said axis serves to simultaneously move said element about said pivot to adjust said element in accordance with the focusing movement of said portion, and a



second cam operatively connected to said second lever for rocking said first cam transversely of said axis to alter the angular relation between said first cam and its direction of movement to vary the pitch of said cam.

---

**2,391,153**
**UNIVERSAL PRECISION SHARPENING MACHINE**
**Georges Grobet, Geneva, Switzerland, assignor to Robert Habib, Geneva, Switzerland**
Application July 31, 1943, Serial No. 496,912
In Switzerland March 21, 1942
5 Claims. (Cl. 51—92)



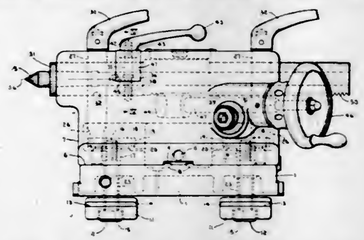
1. A sharpening machine comprising a frame, a bridge forming a bed and having spaced pillars rigidly mounted on the frame, a work-table mounted on and movable longitudinally of the bed, a sliding support movable transversely of the frame and having a portion adapted to move through the space beneath the bed and between the pillars, means including a rack for quick displacement of said support, means including a micrometrical screw for fine adjustments of the support, and a grinding wheel column carried by and vertically adjustable relative to said support.

---

**2,391,154**
**TAILSTOCK FOR LATHES**
**William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware**
Application May 10, 1943, Serial No. 486,295
6 Claims. (Cl. 82—31)

1. In a tailstock for a lathe, a tailstock body, means for clamping said tailstock body to the bed of said lathe comprising, a clamp extending

under the ways of said bed upon which said tailstock is mounted, a clamp bolt passing through said clamp and extending upwardly into a cavity in said tailstock body, means for drawing said bolt and clamp upwardly toward the underneath side of the ways of said bed comprising a gear journaled in said tailstock body having a threaded bore operating around the threaded portion of said bolt, and means for rotating said gear manually by means of a rock shaft vertically recip-



rocatable in a journal bearing in said tailstock body, a pinion formed on said rock shaft, an operating shaft fixed on the upper end of said rock shaft, and means whereby said rock shaft may be raised or lowered in said journal bearings to engage its pinion in different relative positions of engagement with said gear so as to effect operation of said gear and clamping mechanism for any desired position of said operating handle with respect to said tailstock.

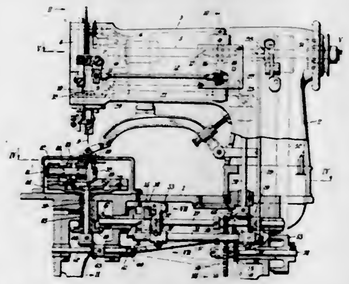
---

2,391,155

## LOOP-TAKER TRANSMISSION MECHANISM FOR TURNING STITCHING SEWING MACHINES

**Arthur N. Hale, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**

**Application May 10, 1944, Serial No. 534,886**
**14 Claims. (Cl. 112—66)**



1. In a sewing machine loop-taker mechanism having a rotary loop-taker shaft and a loop-taker drive shaft geared thereto, a turret supporting the rotary loop-taker shaft, and a turret-rotating shaft operatively connected for rotating the turret, the combination therewith of a planetary transmission comprising a power shaft, an externally toothed cage member rotatably journaled coaxially of said power-shaft, a driven shaft having a journal support in the cage member and mounted with its axis at an acute angle to the axis of the power shaft, meshing conical gears secured respectively to said power and driven shafts adjacent the cage member, a gear secured to the turret-rotating shaft and meshing with the cage member teeth to impart the rotary movement of the turret-rotating shaft to the cage member, a universal joint sustaining the end of the driven shaft remote from the said conical gear thereon, means for transmitting the rotary motion of said remote end of the driven shaft to the loop-taker drive shaft, means for imparting continuous rotation to the power shaft, and means for rotating said turret-rotating shaft.

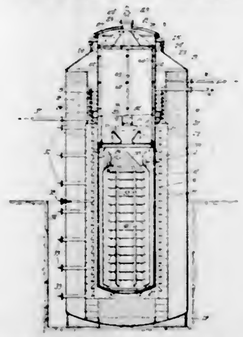
---

2,391,156

## APPARATUS FOR REFINING SUBLIMABLE MATERIAL

**Fritz J. Hansgirg, Los Altos, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee**

**Application February 4, 1942, Serial No. 429,484**
**4 Claims. (Cl. 266—19)**



1. An apparatus for extracting metal in the vapor state from material bearing such metal, comprising a longitudinally extended retort member closed at the bottom and adapted to be heated for evolving vapor from material charged therein, and superimposed thereupon an elongated condenser member provided with a removable cover and adapted to be kept cool for causing the vapor evolved to condense thereon as a solid deposit, in combination with a removable liner positioned in the condenser member so as to provide an annular interspace between the outer face of the liner and the inner face of the condenser member wall, and a charge container with a discharge opening in the bottom, liftably placed in the retort member; means for establishing proper communication between the interior of the charge and the condenser member, adapted to control the speed of the vapor rising in the condenser member, and constituting a liftable blocking mechanism for the discharge opening of the charge container and being substantially centrally positioned in the retort member, so as to reduce by displacement the radial extent of the charge under treatment.

---

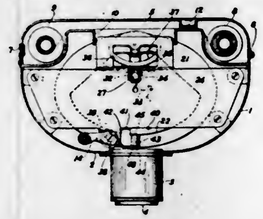
2,391,157

## SHUTTER RELEASE

**Douglass C. Harvey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application January 4, 1944, Serial No. 516,919**
**8 Claims. (Cl. 95—53)**

1. A shutter release for shutters of the type including a shutter plate, a mount on which the shutter plate may move through a fixed path, mechanism for moving the shutter plate including a power spring, a pin movable with the shutter plate through a fixed path by the mechanism and spring, said shutter release comprising a pivotally-mounted latch element, a spring tending to hold said latch element in a position of rest engaging the pin at one end of its fixed path, a pivotally mounted trigger, a spring latch carried by the



trigger, interengaging parts on the pivotally mounted latch and spring latch for normally moving the pivotally mounted latch with the trigger, a cam carried by the spring latch, said cam lying in the path of movement of the pin movable with the shutter plate, and adapted to be engaged and moved by the pin for releasing the interengaging parts of the pivoted and spring latch elements, whereby said pivoted latch element may be moved by its spring to its normal position of rest.

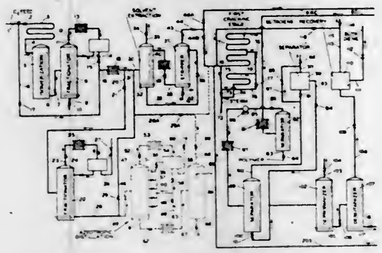
---

2,391,158

## MANUFACTURE OF DIOLEFINS

**Harold J. Hepp, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application February 16, 1942, Serial No. 431,175**
**2 Claims. (Cl. 260—680)**



1. The process for the production of diolefins from a mixture of pentenes comprising pentene-2 and trimethylethylene which comprises subjecting said mixture to pyrolysis in a first zone at substantially atmospheric pressure and at a temperature within the range of 700° C. to 900° C. for a period of time sufficient to convert from 30 to 70 per cent of the pentene-2 content of said mixture to other materials with optimum yield of butadiene; separating the butadiene so formed from the effluent of said first zone; and subjecting the mixture of unreacted pentene-2 and trimethylethylene contained in the effluent of said first zone to pyrolysis in a second zone at substantially atmospheric pressure and at a temperature within the range of 700 to 900° C. for a period of time materially greater than that employed in the first zone and sufficient to convert from 20 to 80 per cent of the unreacted trimethylethylene content of said mixture of unreacted pentene-2 and trimethylethylene to other materials with an optimum yield of isoprene.

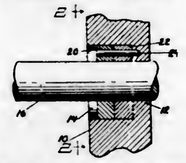
---

2,391,159

## FLUID SEAL

**Evald Hermansen, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware**

**Application May 22, 1944, Serial No. 536,800**
**2 Claims. (Cl. 286—1)**



1. A fluid seal for a shaft extended through and rotatable in a wall, a pair of split rings sleeved on the shaft with the ends of one ring overlapping the ends of the other, and a pin supported in the wall extended transversely through the overlapping ends of the rings.

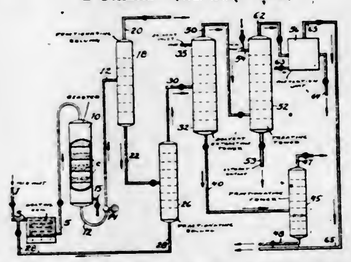
---

2,391,160

## REFINING OPERATION

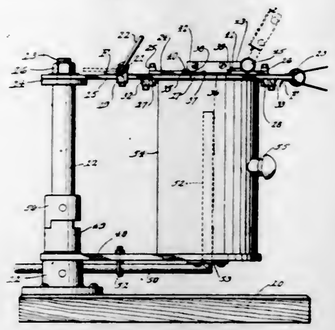
**Charles A. Hillman, Sea Girt, and Donald L. Campbell, Short Hills, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application May 2, 1942, Serial No. 441,518**
**1 Claim. (Cl. 260—680)**



A continuous process for manufacturing butadiene from normal butane which comprises heating the butane to dehydrogenation temperatures, discharging the heated butane into a dehydrogenation zone where it is permitted to remain in contact with a catalyst, consisting of chromic oxide supported on alumina, for a period of time of from about 0.05 to 2 seconds, at a temperature range from about 1000° F. to 1400° F., and at an average 95 mm. mercury absolute pressure, withdrawing the reaction products from the reaction zone, separating a portion of the butane and butene-2 from the reaction products by fractionation, recycling said separated butane and butene-2 to the dehydrogenation zone, treating the remainder of the $C_4$ cut of the reaction products with methyl amine to remove butadiene extracting iso-butene with sulfuric acid from the reaction products remaining after butadiene removal, subjecting the residual mixture to alkylation conditions in the presence of an alkylation catalyst whereby iso-butane and butenes are converted to alkylate, separating the alkylate from the normal butane and recycling the latter to the dehydrogenation zone.

**2,391,161**
**APPARATUS FOR TESTING THE FIRE-RESISTANCE OF MATERIALS**
**Ernest E. Hubert, Seattle, Wash., assignor to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington**
**Application September 15, 1944, Serial No. 554,313**
**1 Claim. (Cl. 73—15)**



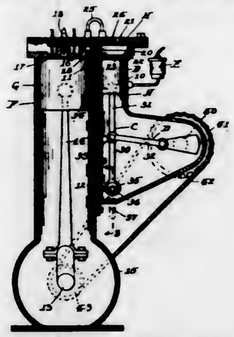
Apparatus for subjecting fabrics to a fire test, comprising a horizontal plate having a rectilinear edge and a recess terminating at said edge, means associated with said plate and spaced from the sides of said recess for clamping a strip of fabric on said plate and across said opening, a second plate adapted to rest on the clamped fabric between said clamping means and having an edge recess registering with the first mentioned recess, said second plate being hinged to the first on an axis beyond the inner ends of said recesses, and a mask hinged on said second plate and removably receivable in the recess of said second plate to rest on the fabric and define thereon a pattern smaller than the framed area for the application of a chemical to be tested.

**2,391,162**
**INTERPOLYMERS OF ISOBUTYLENE WITH VINYL METHACRYLATE AND THEIR PREPARATION**
**Denis William Huebner and James Edgar Fearey, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
**No Drawing. Application May 18, 1943, Serial No. 487,538. In Great Britain May 18, 1942**
**6 Claims. (Cl. 260—84)**

1. A process for the production of an interpolymer of isobutylene and vinyl methacrylate which comprises subjecting a mixture containing isobutylene and vinyl methacrylate to the action of boron trifluoride at a temperature below −10° C.

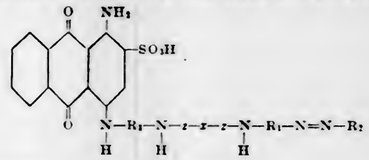
**2,391,163**
**ART OF COMPRESSING FLUID**
**Sellers E. Jessup, Los Angeles, Calif.**
**Application June 15, 1943, Serial No. 490,841**
**3 Claims. (Cl. 230—20)**

1. In a compressor having a cylinder provided with ingress and exhaust ports, a support for said cylinder, a reciprocable piston coacting with said ingress and exhaust ports to form a compression chamber of initial constant volume in said cylinder, a pair of toggle levers having one end portion pivotally connected to said piston, a variable bearing for the opposite end of said toggle levers on said support whereby a variable clearance space is provided by said piston in the compression chamber to assist in regulating the compression of fluid by said piston, said adjustable bearing being manually operable to regulate said compression without changing the size of said admission port, and means for flexing the toggle levers to reciprocate said piston.

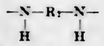


**2,391,164**
**METALLIZABLE TRIAZINE AZO DYESTUFFS**
**Otto Kaiser, Basel, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland**
**No Drawing. Application June 23, 1941, Serial No 399,413. In Switzerland July 9, 1940**
**7 Claims. (Cl. 260—153)**

1. The dyestuffs which at the same time belong to the anthraquinone series and to the azo series and correspond in the free state to the formula



wherein



stands for the radical of a diamine selected from the group consisting of a 1:4-phenylenediamine, a 4:4'-diaminodiphenyl and a 4:4'-diaminodiphenylurea; one $z$ stands for a connecting link consisting of a



group, wherein one $y$ stands for a hydrogen atom and the other $y$ stands for an



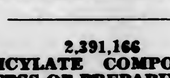
group linked to an atom grouping



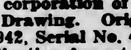
of the connecting member $x$; $x$ stands for a 1,3,5-triazine nucleus having attached to the 4-carbon atom an



grouping wherein $v$ is a member of the group consisting of hydrogen and lower alkyl, and $t$ is a member of the group consisting of lower alkyl and aryl; and the other $z$ stands for a member of the group consisting of the aforesaid connecting link



and a single bond; and wherein finally the symbols



stand for the radical of a yellow aminoazo dyestuff in which $R_1$ represents an aromatic ring of the benzene series in which ring the



group of the symbol $z$ and the azo group stand in para position to each other, and $R_2$ represents a benzene ring in which an OH group and a COOH group stand in o-position to each other and in which the OH— group stands in p-position to the —N=N— group, which dyestuffs yield green tints on vegetable fibers whose wet fastness may be enhanced by treatment with copper compounds.

**2,391,165**
**STOCKING FOOT**
**Guenther Kasket, New York, N. Y.**
**Application August 12, 1942, Serial No. 454,492**
**6 Claims. (Cl. 36—10)**

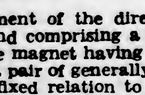


1. A separate and distinct manufacture, consisting of a stocking foot, the stocking foot comprising a section for encasing the toes and the foot rearwardly therefrom to substantially the ball of the foot, and means for engagement around the foot at the heel but well above the sole of the foot, the engagement means and the section cooperating to provide an opening for insertion of the foot into said section and an opening for projection of the heel of the foot below said engagement means, said section and engagement means having lines of greater elasticity in zones immediately adjacent the edges of the openings than in zones removed from said edges.

**2,391,166**
**LEAD SALICYLATE COMPOSITIONS AND PROCESS OF PREPARING SAME**
**Leonard M. Kebrich, Brooklyn, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Original application October 20, 1942, Serial No. 462,769. Divided and this application August 15, 1944, Serial No. 549,629**
**7 Claims. (Cl. 106—297)**

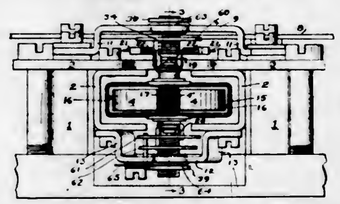
7. A process for preparing a mixture of monobasic lead salicylate and other insoluble lead salt which comprises forming an aqueous suspension of lead oxide and while agitating the same gradually adding thereto powdered salicylic acid until a slurry of pentabasic lead salicylate is formed and slowly adding to said slurry an acid selected from the group consisting of oxalic, sulfuric and carbonic acids, until a mixture of monobasic lead salicylate and the lead salt of the other added acid is obtained.

**2,391,167**
**FISHING TACKLE**
**Frank E. Kelly, Chicago, Ill.**
**Application January 6, 1944, Serial No. 517,157**
**1 Claim. (Cl. 43—28)**



An attachment for detachably securing a fly hook unit to a fishing line comprising a float provided with a central longitudinal opening and a clasp, said clasp consisting of a wire having at one end a loop in one plane terminating with a loop at substantially right angles thereto and surrounding a portion of the wire, said portion constituting a shank adapted to be received in the opening, said wire having a third loop at the opposite end of the shank transverse to the planes of the former loops and having portions thereof in contact with one end of and the peripheral surface of the float and extending longitudinally along the surface of the float and provided at its free end with a portion spaced from said surface, a portion inwardly thereof being of plural hump formation with one of the humps in penetratable engageable relation with said float, the second and third loops constituting stops to prevent longitudinal movement of the wire relative to the float, said wire being of such resiliency as to permit displacement of the hump portions relative to the float surface whereby an eye of a fly can be guided in contact with the latter free end past the humps into assembled relation with the third loop.

**2,391,168**
**ELECTRICAL RATIO METER**
**Knud J. Knudsen, Warren, Ohio**
**Application September 15, 1942, Serial No. 458,481**
**7 Claims. (Cl. 171—95)**

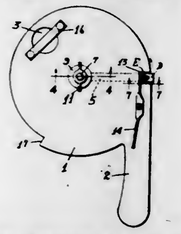


1. An instrument of the direct current, moving coil type and comprising a horizontally disposed horseshoe magnet having its arms extending forwardly, a pair of generally channel-shaped pole pieces in fixed relation to the arms of the magnet, respectively, with their sides extending horizontally, said pole pieces opening toward and being in spaced relation to each other to define a major flux path, a horizontal generally circular core, means extending rearwardly from the

core and fixedly supporting the core between the pole pieces in spaced relation thereto and with portions of the core extending part way within the open channels of the pole pieces, a pair of relatively axially adjustable bearings coaxial with the core and arranged one above and one below the core, pivot means mounted in said bearings, a deflecting coil carried by the pivot means with its axis horizontal and intersecting the axis of the pivot means at right angles, said coil having an axial passage of greater height and length than the height and outer diameter respectively of the core for accommodating the core within the coil with clearance in oscillated positions of the coil, said coil extending between the core and pole pieces with clearance relative to the pole pieces, and restoring means for the coil rigid therewith at right angles thereto and adapted to encircle arm portions of the core, said coil and restoring means being removable as a unit from the magnet and core assembly without disturbing the magnetic flux circuit of said assembly.

---

**2,391,169**
**EGG DECAPPER**
**Harry O. Koch, Wichita, Kans.**
**Application March 25, 1944, Serial No. 528,040**
**2 Claims. (Cl. 146—2)**

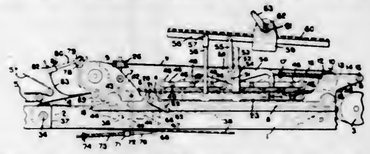


1. In an egg decapper, a circular disc having a handle tangentially extending a stationarily support the circular disc, said disc being apertured inward from its periphery to receive a tip of an egg extending therethrough and a guard arced across the aperture and being secured to the disc to retain the tip of the egg when severed, a shoulder outwardly extending radially from the periphery of the disc to function as a detent, the disc having a hub extending through an aperture at the axis of the disc, said hub having a leaf spring to wind thereon, a cutting blade having one end trunnioned on the hub and a shoulder in spaced relation from the hub and to which the free end of the leaf spring is attached as tensioning means for the blade, a return bend formed on the other end of the cutting blade to straddle the disc as it circumscribes the peripheral edge of the disc as cutting means for the egg, the return bend being to retain said cutting blade in sliding contact on the disc and to contact the shoulder as a stop therefor.

---

**2,391,170**
**STACKER ACCUMULATOR**
**Harold S. Labombarde, Nashua, N. H., assignor to The International Paper Box Machine Company, Nashua, N. H., a corporation of New Hampshire**
**Application August 20, 1942, Serial No. 455,434**
**27 Claims. (Cl. 271—76)**

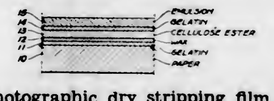
1. A machine of the class described comprising an endless conveyer belt, means for actuating the same to provide a slack upper run, a complementary endless compressor belt having a lower run cooperating with the upper run of the conveyer to engage therebetween the articles being conveyed having at its front end a driving roller positioned to cause said compressor belt to engage flat articles deposited upon the conveyer belt, yieldable means cooperating with said



roller to accumulate flat articles upon the conveyer, pressure means extending transversely across the lower run of the endless compressor means at a distance from said roller acting upon a substantially longitudinal portion of said run, means for applying equal forces to the ends of said pressure means, and means for eliminating or for adjusting equally the amount of the forces thus applied.

---

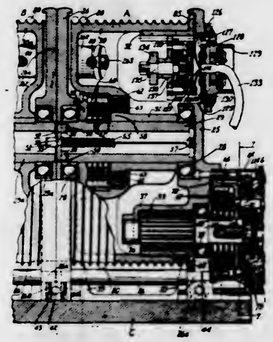
**2,391,171**
**PHOTOGRAPHIC STRIPPING FILM**
**Gerould T. Lane, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application June 7, 1941, Serial No. 397,093**
**4 Claims. (Cl. 95—9)**




1. A photographic dry stripping film consisting, in order, of a paper temporary support having a gelatin coating thereon, a calendered wax layer consisting of approximately 1.8 grams of wax per square meter of paper surface, a cellulose nitrate permanent support, a gelatin sub, and a sensitive emulsion layer.

---

**2,391,172**
**HOISTING MECHANISM**
**George H. Leland, Dayton, Ohio**
**Application August 27, 1942, Serial No. 456,422**
**19 Claims. (Cl. 254—185)**



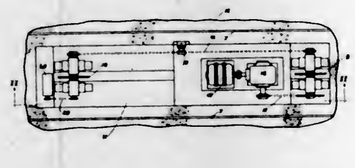
3. In a hoisting mechanism, two drum units each including a frame, a shaft rotatably



mounted in said frame, a cable drum supported on said shaft, and means acting on said drum to rotate the same, means for securing said frames in fixed relative positions with said shafts substantially in axial alinement, means for connecting said shafts with the respective drums for rotation thereby, the connecting means of at least one of said units comprising friction elements to cause the shaft and drum to normally rotate in unison and to permit the relative rotation thereof under certain operating conditions, cooperating parts carried by the respective shafts and movable into interlocking engagement by the movement of said units into said relatively fixed positions to automatically connect said shafts for rotation in synchronism, and means for separately actuating the rotating means for the respective drums.

---

**2,391,173**
**CAR-BOTTOM FURNACE**
**Fred H. Loftus, Mount Lebanon, and Vincent R. Troglione, Wilkinsburg, Pa.; said Troglione assignor to Loftus Engineering Corporation, Inc., Pittsburgh, Pa., a corporation of Delaware**
**Application August 21, 1943, Serial No. 499,466**
**3 Claims. (Cl. 104—165)**

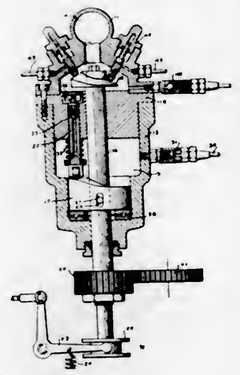


1. In a furnace comprising a furnace body and a car movable through the furnace doorway into and out of the furnace chamber and subject to different temperatures when in the furnace than out, said car having a chassis of metal supporting a refractory deck that forms the floor of the furnace when the car is positioned in said chamber, and means for moving the car into and out of the furnace chamber; the invention herein described in such means comprising a rectilinear length of flexible roller chain extending longitudinally of the car beneath said chassis and attached at spaced-apart points to the chassis, a sprocket wheel journaled beneath the car adjacent to the furnace doorway and engaging said roller chain, and means for selectively driving said sprocket in alternate directions of rotation, whereby the car may be moved into and out of the furnace chamber.

---

**2,391,174**
**FLUID FEEDING AND DISTRIBUTING APPARATUS**
**Harry R. Lownsbery, Elmira, N. Y.**
**Application June 7, 1944, Serial No. 539,217**
**13 Claims. (Cl. 103—2)**

1. In a fuel pumping and distributing system, a low pressure fuel chamber, a high pressure fuel chamber, a pump for transferring fuel from said low pressure chamber to the high pressure chamber, a plurality of fuel lines issuing from said high pressure chamber each provided with a normally closed valve, a cam within said low pressure chamber for actuating said pump, a cam in said high pressure chamber for opening the valves



of said fuel lines in succession, and a single drive shaft for both said valves.

---

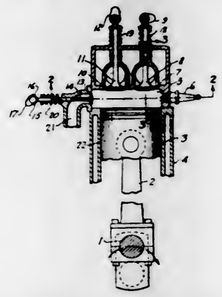
**2,391,175**
**SHEET MUSIC TURNER**
**Albert Maletta, Yakima, Wash.**
**Application September 26, 1944, Serial No. 555,852**
**6 Claims. (Cl. 84—503)**



1. A sheet music turner comprising a standard having a head, an arm pivoted on said head provided with a sheet gripper means, a foot operated lever, a pivoted T bar movable to first and second positions, a link pivoted to each of two branches of said T bar, means operatively connected with said lever arranged to alternately engage the links to respectively pivot said T bar to said first and second positions, and an operating connection between the third branch of the T bar and said arm to pivot the arm and its gripper means to first and second sheet holding positions upon movement of said T bar to its respective first and second positions.

**2,391,176**
**INTERNAL-COMBUSTION ENGINE**
**Marion Mallory, Detroit, Mich.**
**Application February 7, 1945, Serial No. 576,587**
**5 Claims. (Cl. 123—191)**

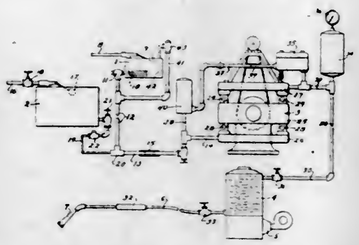
1. An internal combustion engine comprising a cylinder, a reciprocating piston in said cylinder, a combustion chamber at the upper end of said cylinder, ignition means positioned adjacent one end of the combustion chamber, a valve controlled exhaust port adjacent said same end of the combustion chamber, a valve controlled port for admitting air under pressure into said combustion chamber and positioned at the other end of the combustion chamber opposite the ignition means, and a valve controlled intake port also adjacent said other end of the combustion chamber through which a fuel mixture flows into the combustion



chamber preparatory to admitting a charge of compressed air through said air inlet port whereby the compressed air charge cools the inlet port end of the combustion chamber and causes the site end of the chamber so that the combustion flame travels from the ignition means end of the fuel mixture to be richer at the ignition means end of the combustion chamber than at the oppocombustion chamber toward the other end without pre-ignition of the fuel mixture as the pressure rises due to combustion.

---

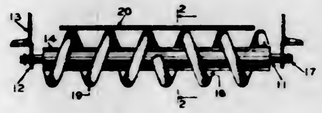
**2,391,177**
**FEED MEANS FOR CLEANING MACHINES**
**Job F. Malsbary, Oakland, Calif., assignor to Malsbary Manufacturing Company, Oakland, Calif., a copartnership composed of Job F. Malsbary and Walter W. Taylor**
**Application November 26, 1943, Serial No. 511,809**
**11 Claims. (Cl. 299—83)**



1. In a cleaning machine of the character described, a source of liquid, a pump, a connection between the source and the pump intake, a liquid-receiving element, a connection between the pump outlet and the latter element having a compression chamber and relief valve therein, a by-pass connection between the relief valve and the pump intake whereby excess liquid may be returned to the pump intake in a circulatory path, and a suction chamber in said by-pass connection for accommodating excessive surges in the latter.

---

**2,391,178**
**IDLER ROLL FOR BELT CONVEYERS**
**Lynn B. McKnight, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application March 11, 1943, Serial No. 478,761**
**4 Claims. (Cl. 198—230)**

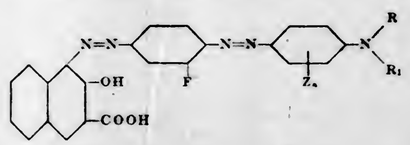


1. An idler roll for supporting a conveying belt in its return path, comprising a rotatably mounted rigid spiral member, with its axis arranged transversely of the belt, a spiral tread mounted on said member, said tread being of yieldable material and having an outer surface adapted to support a small area of the underside of the belt, the movement of the belt effecting flexing of the tread under the transverse as well as longitudinal forces which the belt exerts, whereby adequate traction is obtained to compel rotation of the roll at all times, the areas of contact between the belt and the roll constantly shifting both longitudinally and transversely of the belt to produce substantially uniform wear over the entire undersurface of the belt supported by the spiral tread.

---

**2,391,179**
**FLUORINE CONTAINING AZO COMPOUNDS**
**James G. McNally and John R. Byers, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application October 22, 1942, Serial No. 462,958**
**6 Claims. (Cl. 260—187)**

1. The azo dye compounds having the formula:

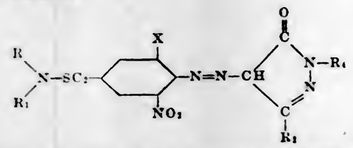


wherein Z stands for a member selected from the group consisting of a halogen atom, lower aliphatic acylamino group, a lower alkyl group and a lower alkoxy group, *n* stands for a member selected from the group consisting of 0 and 1, and R and $R_1$ each stands for a member selected from the group consisting of a lower alkyl group and a lower hydroxyalkyl group.



**2,391,180**
**SULPHONAMIDO AZO PYRAZOLONES**
**James G. McNally, Oak Ridge, Tenn., and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application March 18, 1944, Serial No. 527,145**
**6 Claims. (Cl. 260—163)**

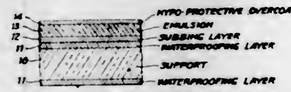
1. The azo compounds of the following general formula:



wherein R represents a member selected from the group consisting of a lower alkyl group, a lower hydroxyalkyl group, a lower alkoxyalkyl group, a lower hydroxyalkoxyalkyl group, a lower sulphoalkyl group and a short chain unsaturated hydrocarbon group whose unsaturation consists of a double bond, $R_4$ represents a member selected from the group consisting of hydrogen and a lower alkyl group, $R_2$ represents a member selected from the group consisting of hydrogen a lower alkyl group and a lower hydroxyalkyl group, $R_3$ represents a member selected from the group consisting of hydrogen and a lower alkyl group and X represents a member selected from the group consisting of hydrogen and halogen.

---

**2,391,181**
**PROTECTIVE OVERCOATING**
**Louis M. Minsk, Walter J. Weyerts, and Wendell H. McDowell, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application May 2, 1944, Serial No. 533,742**
**5 Claims. (Cl. 95—8)**

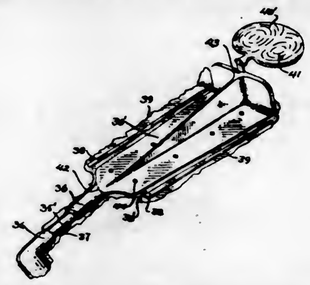



1. A sensitive photographic element comprising a support having thereon a light-sensitive emulsion layer and over said layer a layer of a copolymer of methacrylic acid and an alkyl methacrylate insoluble in water but soluble in alkaline photographic developing solutions.

---

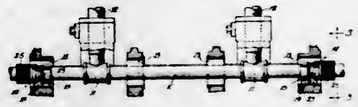
**2,391,182**
**METHOD FOR PRESSURE MOLDING**
**Charles C. Misfeldt, Glendale, Calif.**
**Application January 26, 1942, Serial No. 428,147**
**2 Claims. (Cl. 22—200)**

1. The process of casting a shaped article which comprises continuously feeding fluid metal into a mold cavity, displacing the air from said cavity and directing it into a communicating closed cavity, the metal being fed under a positively applied force and filling the mold cavity against the pressure of the air displaced from the cavity thereby obtaining freedom from turbulence while the metal fills the cavity, and applying an upsetting pressure to the metal being fed to displace excess metal from said mold into said closed cavity against the continuously increasing air pressure therein, whereby the metal in the mold cavity is densified and the softer metal therein is intimately and uniformly distributed throughout the mass of the metal forming the shaped article and expressing excess metal including any containing occluded air and more completely cooled metal into said closed cavity.



---

**2,391,183**
**CENTERING MEANS FOR BORING MACHINES**
**Wallace F. Mitchell, Chicago, Ill., assignor to Automotive Maintenance Machinery Co., North Chicago, Ill., a corporation of Illinois**
**Original application March 18, 1943, Serial No. 479,579. Divided and this application February 17, 1944, Serial No. 522,765**
**12 Claims. (Cl. 77—55)**



1. In a machine for boring the bearings of an engine cylinder block, a boring bar, means for centering said boring bar in the bearings to be bored which includes a cylindrical body member adapted to receive said boring bar and having a part compressible upon the boring bar, expansible centering members carried by said body member and adapted to engage the wall of a bearing to be bored, and means for expanding said expansible members including a member carried by said compressible body part for first expanding said expansible members and then compressing said compressible part when said expansible members are no longer expansible because of engagement with a bearing.

---

**2,391,184**
**COMPOUNDED HYDROCARBON OIL**
**Joseph F. Nelson, Elizabeth, and Louis A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application August 18, 1942, Serial No. 455,244**
**7 Claims. (Cl. 252—32.7)**

1. An improved lubricant which comprises an oil base and a small quantity, sufficient to substantially inhibit deterioration of the oil during use, of a compound of the formula

$$[(RX)_a(HY)_bPZ_c]_dM$$

in which R is an organic group, X, Y, and Z are elements of the group consisting of oxygen, sul-

fur, selenium, and tellurium, at least one atom being a member of the class consisting of sulfur, selenium, and tellurium, H is hydrogen, P is phosphorus, M is a polyvalent metal, $a$, $c$, and $d$ are small whole numbers, $b$ is zero or one, and $a+b+c=3$.

---

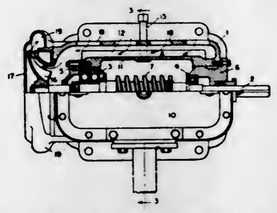
**2,391,185**
**FISH PICK**
**Matti Niemi, Anchorage, Territory of Alaska**
**Application January 17, 1944, Serial No. 518,673**
**2 Claims. (Cl. 235—91)**



1. A fish-pick for the described purpose comprising, in combination: a handle provided upon its lower end with a stock-piece, said stock-piece being hollow to describe a chamber therein and having a center-bore in the nose giving access to said chamber; a fish-impaling tine having a curved outer end and produced with an integral shank journaled for reciprocatory slide action in said center-bore of the stock-piece to have the inner end of the shank project into the chamber; a counting device housed in said chamber to occupy a position axially removed above the shank's inner end, and providing a reciprocatively mounted actuating stem movable on a slide axis paralleling that of the shank, said stem serving to activate the counting mechanism of the counting device through a one-number advance by movement in one direction of reciprocation while being inactive to said counting mechanism in the return travel of reciprocation; and connection from said inner end of the shank to the stem operating by outward sliding movement of the tine to activate the stem in the latter's said counting stroke and by inward sliding movement of the tine to activate the stem in the latter's said return stroke.

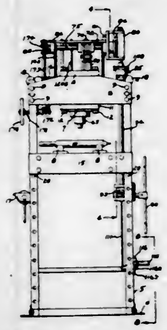
---

**2,391,186**
**AIR-COOLED REDUCTION GEAR UNIT**
**Warren Noble, Cleveland, Ohio, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio, a corporation of Ohio**
**Application June 12, 1943, Serial No. 490,601**
**10 Claims. (Cl. 74—606)**



1. In a combined machinery housing and lubricant reservoir unit, the combination of air propelling means, a housing wall portion in contact with relatively hot lubricant and a wall portion in contact with cooler lubricant, an air intake passage disposed along a portion of said housing having the hot lubricant and leading from the atmosphere to said air propelling means, and an air discharge passage from said propelling means disposed along the portion of the housing having the cooler lubricant.

**2,391,187**
**HYDRAULIC ARBOR PRESS**
**Herbert E. Page, Pasadena, Calif.**
**Application July 5, 1943, Serial No. 493,566**
**9 Claims. (Cl. 100—71)**



9. In a hydraulic arbor press, the combination of a support presenting a work holding bed, a ram guide on the support, a ram member carried by the guide for movement towards and away from the bed, and having a body presenting a reservoir and a pair of parallel cylinders of relatively different diameters, a pumping piston reciprocably mounted in the smaller cylinder, a work piston reciprocably mounted in the larger cylinder and secured to the support, means for reciprocating the pumping piston, valve controlled means providing communication between the reservoir and smaller cylinder, a port in the body providing communication between the cylinders, a check valve controlling the port and seating towards the smaller cylinder and spring means cooperating with the valve to trap fluid in the smaller cylinder to cause inward movement of the pumping piston to move the body towards the bed and into initial contact with work on the bed independently of pressure in the larger cylinder, said spring means being of a strength yieldable only to pressure in the smaller cylinder greater than that required to move the body into contact with the work whereby to transmit fluid under pressure to the larger cylinder after contact of the body with the load and thereby press the ram against said work.

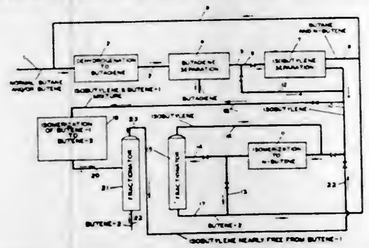
---

**2,391,188**
**BUTADIENE PRODUCTION**
**Robert J. Patterson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application January 11, 1943, Serial No. 472,043**
**1 Claim. (Cl. 260—680)**

The process of making butadiene which comprises catalytically dehydrogenating an aliphatic $C_4$ hydrocarbon selected from the group consisting of normal butane and normal butenes under conditions such as to produce butadiene, separating butadiene from the dehydrogenation effluent, separating a fraction of isobutylene and butene-1 in admixture from the dehydrogenation effluent, recycling the butene-2 content of dehydrogenation effluent to the dehydrogenation step, treating said fraction of isobutylene and butene-1 in such manner as to isomerize said butene-1 to butene-2, fractionally distilling the isomerization effluent to separate the butene-2 so produced from the isobutylene which is thus



rendered substantially free from butene-1, treating the resulting isobutylene in such manner as to partially isomerize it to normal butene comprising a major proportion of butene-2, fractionally distilling the last-named isomerization



effluent to separate it into a fraction containing the unconverted isobutylene and a fraction of butene-2, recycling said fraction of unconverted isobutylene to the last-named isomerization step, and feeding said last-named fraction of butene-2 to the dehydrogenation step.

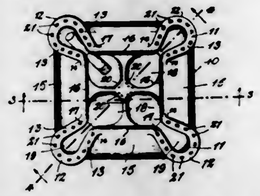
---

**2,391,189**
**ISOMERIZATION PROCESS**
**Stephen F. Perry, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application September 19, 1942, Serial No. 458,942**
**7 Claims. (Cl. 260—683.5)**

1. A process of isomerizing normal paraffin which comprises passing a feed stock predominantly composed of normal paraffin containing four carbon atoms per molecule and containing small amounts of sulfur-containing impurities in contact with aluminum chloride and in the presence of promotional amounts of hydrogen chloride, under isomerization reaction conditions, separating from the reacted mixture a mixture of hydrogen chloride together with small amounts of normally gaseous sulfur-containing constituents boiling below the boiling point of the normal paraffin feed, contacting said gaseous mixture with aluminum chloride to at least partially remove the sulfur-containing impurities as insoluble solid complexes with the aluminum chloride, and continuously returning the hydrogen chloride so treated to the isomerization reaction zone containing the aluminum chloride isomerization catalyst and feed stock.

---

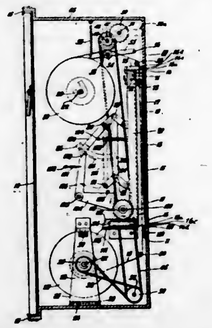
**2,391,190**
**ASH TRAY**
**Josephine A. Porter, Baltimore, Md.**
**Application December 9, 1944, Serial No. 567,415**
**3 Claims. (Cl. 131—240)**



1. An ash tray comprising a receptacle having a substantially square base and upstanding side walls inwardly curved to lie over the base for a major portion of the lengths of said walls, the upper terminal edges of said walls at respective corner junctions being substantally in the form of a horse-shoe, the heel portions of which form a restricted passage for frictional engagement with a cigarette positioned therebetween, and a well member aligned with each restricted passage.

---

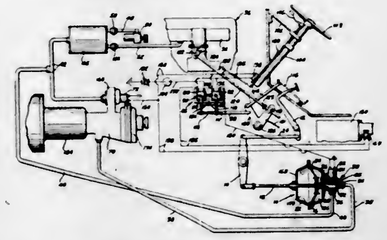
**2,391,191**
**X-RAY CASSETTE**
**Frank T. Powers, Glen Cove, N. Y.**
**Application November 24, 1942, Serial No. 466,737**
**10 Claims. (Cl. 250—66)**



1. A cassette for X-ray radiography with provision for handling and exposing successive portions of a long strip of ray sensitive material, the cassette comprising a casing having a curved flexible wall portion forming an X-ray permeable exposure window; clamping means within said casing movable into and out of a predetermined position for pressing a measured length of said strip into substantially planar engagement with said wall portion for exposure to X-rays through said window; and, means within said casing operable upon movement of said clamping means out of said predetermined position, for severing said strip.

---

**2,391,192**
**CLUTCH CONTROL MECHANISM**
**Harold W. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application June 14, 1943, Serial No. 490,728**
**20 Claims. (Cl. 192—.01)**



1. In an automotive vehicle provided with an accelerator and a friction clutch having a driv-

ing element, a driven element and yieldable means for forcing said elements into contact with each other to effect an engagement of the clutch, power means for operating said clutch including a pressure differential operated motor having its power element operably connected to one of the aforementioned clutch elements, means for controlling the clutch engaging operation of said motor comprising a remotely controlled pressure balanced three-way valve and means for controlling the operation of said valve to effect first a relatively rapid clutch engaging movement of the power element of the motor at a constant or substantially constant rate of speed and then effect a succession of clutch engaging movements of said power element to complete the engagement of the clutch, said valve controlling means including an accelerator controlled solenoid operated cut-off valve, an engine operated governor, said governor serving, together with other valve controlling means, to control the three-way valve to effect the aforementioned succession of clutch engaging operations of the motor.

---

**2,391,193**
**PROCESS FOR THE PRODUCTION OF MAGNESIUM**

John C. Rademaker, Palo Alto, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee for the benefit of Reconstruction Finance Corporation

Application August 4, 1944, Serial No. 548,027
2 Claims. (Cl. 75—67)

1. In the production of metallic magnesium by reduction of magnesium oxide-containing raw material with the aid of reducing agents generating non-gaseous products of oxidation, the method which comprises forming a reaction mixture comprising the initial material and a reducing agent, heating said mixture under vacuum at normal reduction temperatures for a period sufficient to completely remove undesirable concomitants without distilling magnesium, thereafter increasing said vacuum while maintaining constant temperature to cause magnesium vapor to be given off, and cooling said vapor to a temperature below the solidification point of magnesium.

---

**2,391,194**
**RECTIFIERS**

David Rau, Kirkwood, and Carl E. Peters, Clayton, Mo., assignors to B. L. Electric Company, St. Louis, Mo., a corporation of Missouri

No Drawing. Application July 29, 1942, Serial No. 452,864
9 Claims. (Cl. 175—366)

1. The method of improving the current rectification properties of the selenium in selenium rectifiers that comprises the forming of a layer of sodium aluminate and sodium and aluminum hydroxides on one surface of the selenium.

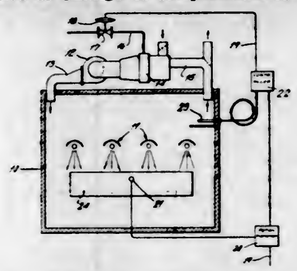
---

**2,391,195**
**DRIER**

John O. Ross, New York, and Jean F. Geehwind, Scarsdale, N. Y., assignors to J. O. Ross Engineering Corporation, New York, N. Y., a corporation of New York

Application March 16, 1943, Serial No. 479,321
2 Claims. (Cl. 34—17)

1. The method of heat treating an article which comprises passing gasiform fluid around said article, supplying radiant heat to the article, independently attemperating said gasiform fluid responsive to change of temperature of said article to maintain the temperature of the gasiform fluid in the range of from substantially the article temperature to a temperature not more than 10° F. in excess of the article temperature.

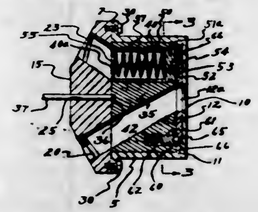


---

**2,391,196**
**SELECTOR VALVE**

Lawrence S. Sanderson, Los Angeles, Calif.

Application September 25, 1944, Serial No. 555,636
8 Claims. (Cl. 251—85)



1. A selector valve comprising a cylindrical body having an end wall presenting a port, a cover cap secured on the body and presenting a plurality of ports each adapted to be connected to a source of fluid under pressure, a core member mounted for rotation in and coaxial with the body, a passageway through the core member adapted upon rotation of the core member relative to the body to register at one end with the port in the body end wall and to register at its other end with any selected one of the ports in the cap, and pressure-transmitting means in the core member operative to free the core member of fluid pressure transmitted through the ports in the cap which are not in communication with said passageway.

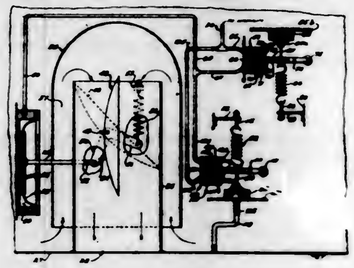
---

**2,391,197**
**SYSTEM FOR CONTROLLING CABIN PRESSURE OF AIRCRAFT**

Leo Nevin Schwien, Los Angeles, Calif., assignor to L. N. Schwien Engineering Co., Los Angeles, Calif., a limited partnership composed of Leo Nevin Schwien, Louise Korbel Schwien, Georgia Korbel, Mary Korbel, and Frances Korbel, all of California

Application February 24, 1941, Serial No. 380,281
15 Claims. (Cl. 98—1.5)

15. In a control system for a supercharged aircraft cabin having an air outlet: a pneumatically operable valve controlling said air outlet, a pneumatic control line, a first control valve in said line, a branch line by-passing said first control valve, a second control valve in said branch line, absolute pressure responsive means exposed to cabin pressure controlling said first control valve, and differential pressure responsive means, exposed to the differential of cabin pressure and external atmospheric pressure, controlling said second control valve.

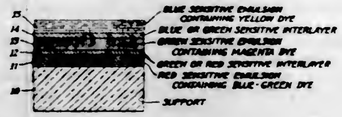


---

**2,391,198**
**SENSITIVE INTERLAYERS IN MULTI-LAYER FILM**

Merrill W. Seymour, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 27, 1943, Serial No. 488,697
In Great Britain December 9, 1942
3 Claims. (Cl. 95—2)




1. A multi-layer element for the silver-bleach-out process of color photography, comprising a support having thereon a plurality of silver halide emulsion layers sensitive to different colors, at least one of said layers containing a uniform deposit of an image-forming dye prior to exposure, and between the latter emulsion layer and another of said emulsion layers a water-permeable colloid layer containing unexposed silver halide sensitive to the color to which the adjacent layer containing said dye is effectively sensitive, said colloid layer being free of image-forming dye.

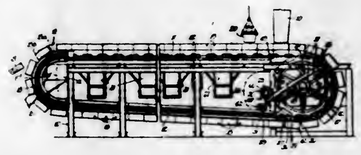
---

**2,391,199**
**SINTERING MACHINE**

Edward W. Shallock, Chicago, Ill., assigner to American Ore Reclamation Company, Chicago, Ill., a corporation of New York

Application August 26, 1943, Serial No. 500,074
8 Claims. (Cl. 198—45)

2. In a sintering machine, an endless track having an upper run and a lower run connected by a discharge end return bend and a feed end return bend, a train of pallets travelling on said track, means for moving the pallets about said feed end return bend from said lower run to said upper run comprising a drive shaft rotatably mounted transversely of said machine and sprocket wheels secured on said shaft, a driven countershaft disposed inwardly of said machine beyond said sprocket wheels and parallel with and having driving connection to said drive shaft, conveyor means driven by said countershaft disposed transversely of said machine and inwardly thereof beyond said sprocket wheels and discharging laterally of said machine, and a fines receiving chute inclined downwardly and inwardly of said machine extending between said sprocket wheels and disposed between the upper and the lower portions of said feed end return bend with its upper end in proximity to the bottoms of pallets passing thereabout for receiving loose sinter fines discharged from the latter pallets, said chute delivering the fines to said conveyor means.

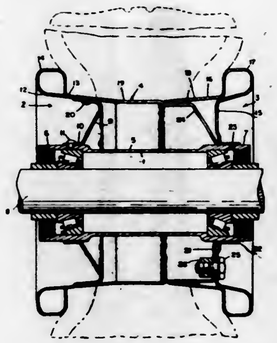


---

**2,391,200**
**WHEEL**

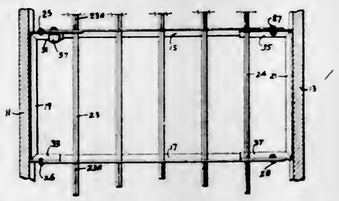
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application December 13, 1943, Serial No. 514,127
4 Claims. (Cl. 301—63)



1. A wheel comprising a sheet metal side element having a body portion and an integral rim portion provided with a rim base part and a tire retaining bead, a sheet metal intermediate element having a rim base portion telescoped over and secured to said rim base part and an integral supporting portion, and a second sheet metal side element having a body portion directly secured to said supporting portion and having a rim base part telescoped over said rim base portion and an integral tire retaining bead between said second mentioned body portion and said second mentioned rim base part and having a portion in supporting contact with said second mentioned rim base part.

2,391,201
**ADJUSTABLE WINDOW GUARD**
Joe F. Smith, Memphis, Tenn.
Application July 27, 1944, Serial No. 546,799
4 Claims. (Cl. 160—223)



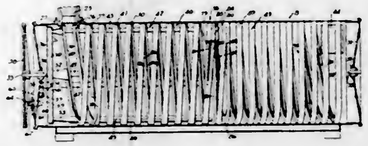
4. An adjustable window guard including upper and lower rails and end members forming a frame, both of said end members being shiftable in the direction of the length of said rails to vary the width of said guard, means for establishing step by step positioning of one said end, and locking means for securing said end in a selected one of said positions, and means for clamping the opposite said end in any positioning necessary to effect with the first said end the desired width of frame.

2,391,202
**TELESCOPIC ROD ANTENNA**
Frederic Tellander, Franklin Park, and Otto E. Wagenknecht, Chicago, Ill., assignors to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois
Application May 15, 1943, Serial No. 487,088
34 Claims. (Cl. 189—26)



1. In a telescopic antenna having a plurality of sections adapted for relative projection and retraction, in combination, a screw within the lowermost section, said screw having a lower end terminating above the lower end of said lowermost section, a nut carried on each section above the lowermost section, resilient means for urging the nut carried by the uppermost section against said lower end of the screw, whereby the nut is adapted to be rethreaded on the screw after it has been threaded off said screw and means for rotating said screw in one direction or the other to project or retract the nut carrying sections seriatim.

2,391,203
**APPARATUS FOR TREATING EVAPORATED MILK**
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Original application March 3, 1941, Serial No. 381,492. Divided and this application June 26, 1944, Serial No. 542,079
1 Claim. (Cl. 99—365)



An apparatus for treating evaporated milk in cans comprising a heat exchange chamber having an inlet and an outlet, a helical canway in said chamber, a portion of said canway being reciprocable relative to said chamber, the remainder of said canway being stationary relative to said chamber, means to reciprocate said reciprocable portion of said canway, a rotary reel within said canway having longitudinal can channels thereon, said can channels being open in said reciprocable portion of said canway to permit the cans to roll on the canway, and means on said can channels in said stationary portion of said canway to restrain the cans from rolling on the canway.

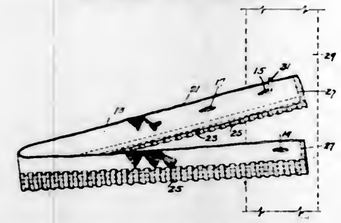
2,391,204
**QUICK RELEASE BOX FOR PARACHUTE HARNESS**
Benjamin Horace Turner and George Brereton Sadleir Falkiner, Broadway, Sydney, New South Wales, Australia, assignors to The Turner Parachute Pty. Limited, Sydney, New South Wales, Australia, a corporation of New South Wales
Application November 12, 1943, Serial No. 510,018
In Australia December 4, 1942
4 Claims. (Cl. 24—205)



1. A parachute harness quick-release box, comprising, a casing having apertures each able to accommodate a harness attachment eye, a spring loaded annular locking plate which is axially movable within said casing, latch teeth on said locking plate which are able to engage harness attachment eyes homed in said apertures, a rotatable and longitudinally movable actuating bolt in said casing, a non-rotatable nut on said bolt having end flanges lying on opposite sides of said locking plate, said bolt having a cam groove, and a spring loaded follower pin associated with said cam groove; the arrangement of said parts being such that a part rotation of said bolt and a subsequent endwise movement thereof enable release of harness attachment eyes from said casing.

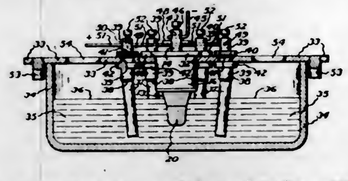


2,391,205
**TIEBACK FOR CURTAINS**
Robert S. Van Cleeff, Memphis, Tenn.
Application April 9, 1945, Serial No. 587,367
2 Claims. (Cl. 160—349)



1. As a curtain tie-back, a strip of fabric having at least two button holes adjacent and at different distances from one end of the strip and a button hole adjacent the opposite end of the strip.

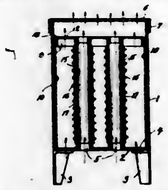
2,391,206
**APPARATUS FOR MAKING ABRASIVE ARTICLES**
Edward Van der Pyl, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 23, 1942, Serial No. 452,009
3 Claims. (Cl. 204—263)



3. In apparatus for fixing abrasive granules on a backing electrolytically, a porous receptacle adapted to be suspended in an electroplating bath, a cathode member extending into said porous receptacle and having means for supporting a metal blank within said receptacle in spaced relation to the wall of the receptacle, means for introducing abrasive granules into said porous receptacle and around the portion of said blank to which it is desired to affix the abrasive granules, and means supported in said porous receptacle for shielding another portion of said blank from contact with said granules, and from the plating action of an electroplating bath in which said porous receptacle is suspended.

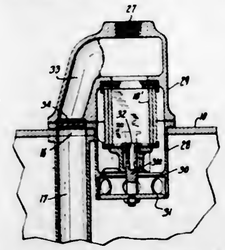
2,391,207
**ELECTRIC HEATER**
Edward Van Schaack, Spokane, Wash.
Application January 4, 1944, Serial No. 516,962
1 Claim. (Cl. 219—38)

In an electric heater, a casing open at its top and having a bottom formed with air inlet openings and provided with upstanding tubular necks open at their upper and lower ends, a grill constituting a perforated removable top for the casing and having a depending marginal flange fitting snugly about the casing, an asbestos lining for walls of said casing, a false top disposed within the casing in spaced relation to the open upper end thereof and having a depending marginal flange overlapping the upper portion of the lining and pressing said lining close against the walls of the casing, said false top being formed with air outlet openings and provided with depending tubular necks open at their upper and lower ends and alined with the necks of the bottom, tubes disposed vertically in said casing with their upper and lower end portions fitting about



the necks of the bottom and false top and having their upper ends bearing against the under face of the false top to support same, insulation surrounding said tubes, and heating coils surrounding the insulated tubes for heating air flowing upwardly through the tubes and through the casing.

2,391,208
**OIL SEPARATOR**
George M. Walton, Shaker Heights, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application March 25, 1943, Serial No. 480,442
9 Claims. (Cl. 183—67)

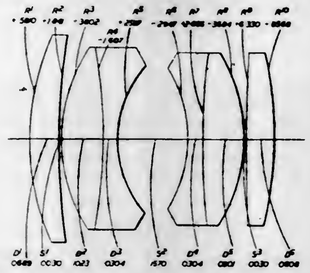


1. In combination, casing means for containing liquid and having an outlet opening above the normal level of liquid therein, an outlet conduit by means of which a fluid flow outwardly from said casing means may be conducted, a liquid separating unit providing a maze of interstices between said opening and said conduit, housing means compelling all fluid passing from said opening to said conduit to pass through said unit, valve means adapted to close said opening, said valve means being closable in response to a predetermined change of position of said casing means, and an outlet passageway leading from said casing to said outlet conduit, said passageway terminating above the level of liquid in said casing means when the latter is in its predetermined changed position and said outlet passageway leading through said liquid separating unit.

2,391,209
**OPTICAL OBJECTIVE**
Arthur Warmisham, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application July 13, 1942, Serial No. 450,708
In Great Britain July 14, 1941
7 Claims. (Cl. 88—57)

2. An optical objective corrected for spherical and chromatic aberrations, coma, astigmatism,

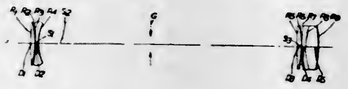
field curvature and distortion, and comprising two compound divergent meniscus components located between two simple convergent components and each having a divergent element cemented to a convergent element, wherein the average value of the Abbé V numbers of the glasses used for the four convergent elements lies between 46 and 50 and the average value of the Abbé V numbers of the glasses used for the two divergent elements lies between 33 and 37, the convergent elements of the two compound meniscus components each being made of dense barium flint glass having mean refractive index between 1.64



and 1.66, whilst the outer air-exposed surfaces of the two compound meniscus components are convex and have radii of curvature each lying between 0.35 and 0.40 times the equivalent focal length of the objective, in which the overall axial length of the objective is less than 0.6 times the equivalent focal length of the objective, and each of the two simple convergent components is made of dense barium flint glass having mean refractive index between 1.64 and 1.66, whilst each divergent element is made of flint glass having mean refractive index between 1.62 and 1.66.

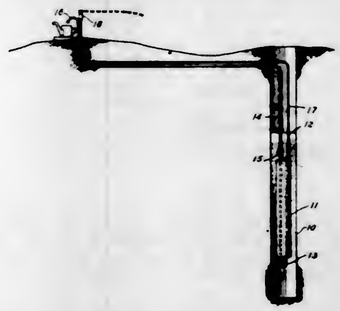
---

**2,391,210**
**OPTICAL OBJECTIVE**
**Arthur Warmisham and Charles Gorrie Wynne, Leicester, England, assignors to Kapella Limited, Leicester, England, a company of Great Britain**
**Application August 3, 1942, Serial No. 453,396**
**In Great Britain July 31, 1941**
**15 Claims. (Cl. 88—57)**



1. A profile projection objective for profile projection corrected for spherical and chromatic aberrations, coma, astigmatism and distortion, and comprising in axial alignment a divergent front member, a convergent rear member which is separated from the front member by an axial air distance greater than twice the equivalent focal length of the objective but not more than 3.5 and consists of two convergent components of which one is simple and one is compound, and means constituting an effective stop located substantially in a position at which rays parallel to the axis entering the objective from the rear will come to a real focus on the axis, the objective being corrected with respect to such stop position.

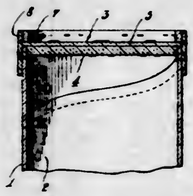
**2,391,211**
**AIR OPERATED PUMP FOR FILLING STATIONS AND THE LIKE**
**Emory O. White, Albertville, Ala.**
**Application February 23, 1945, Serial No. 579,466**
**2 Claims. (Cl. 103—234)**



1. Means for elevating a liquid from a well comprising a cylinder within the well submerged beneath the water level, said cylinder including a foot valve, a water discharge line connected to said cylinder and having a check valve, an air line connected to said cylinder including a combined automatic air inlet and exhaust valve, and an air chuck and line detachably connected thereto.

---

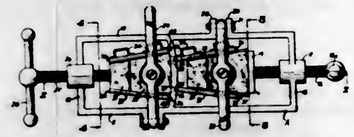
**2,391,212**
**CONTAINER AND CLOSURE THEREFOR**
**Francis J. Williams, Port Washington, N. Y., and Morris Kaplan, Trenton, N. J., said Williams assignor to National Lead Company, New York, N. Y., a corporation of New Jersey**
**Application September 11, 1943, Serial No. 502,058**
**2 Claims. (Cl. 229—5.7)**



1. A shipping container for high-gravity materials comprising a tubular body composed of paper-like stock devoid of any interior shelf or shoulder, a two-diameter rigid lid of like material applied to such body with its part of smaller diameter inserted into and frictionally bearing against the interior surface of the body and its part of larger diameter bearing against the end of the body wall and serving to limit the penetration of the smaller part into the body, and a band and ring assemblage composed of like material, prefabricated to fit on said body containing the lid and for securing the lid, comprising a cylindrical band snugly telescoped over the body and the exposed edge of the lid and glued to the body and a ring permanently attached to the interior of the band to bear upon and clamp the larger diameter part of the lid upon the end of the body wall.



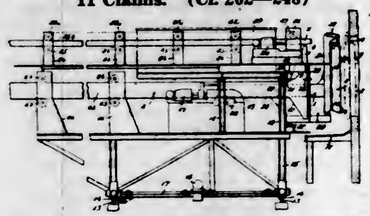
**2,391,213**
**BRAKE SHOE ASSEMBLING AND DISASSEMBLING DEVICE**
**Miles H. Williams, Los Angeles, Calif.**
**Application May 13, 1944, Serial No. 535,487**
**2 Claims. (Cl. 29—256)**



1. In a device for assembling brake shoes of the type having wedge shaped holder and friction block with an interposed resilient pad, the combination with a member having a horizontally disposed supporting table and an abutment wall at one end thereof for the shoe holder; of a pressure applying element movable lengthwise of the table toward said wall; and yieldable, vertically downward pressure applying means above the table located intermediate said element and abutment wall, said means comprising a transversely extending lever having a dependent spring pressed plate to engage the top of the friction block while being actuated by the pressure element.

---

**2,391,214**
**COMBINATION COKE OVEN DOOR-HANDLING, PUSHING, AND LEVELING MACHINE**
**Louis Wilputte, New York, N. Y., assignor to Wilputte Coke Oven Corporation, New York, N. Y., a corporation of Maine**
**Application May 6, 1944, Serial No. 534,500**
**11 Claims. (Cl. 202—248)**

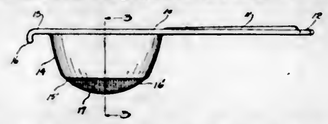


1. In a coke oven door-handling machine, in combination, a carriage movable on tracks running parallel to the length of the coke oven battery, a reciprocating ram, a door-engaging head pivoted on said ram and arranged to engage and carry the weight of a door, means for reciprocating said ram to retract the head and door carried thereby from a coking chamber normally closed by said door and to return the head and door to door-closing position, means for swinging the door-engaging head and the door carried thereby through a 90° arc during the said retraction of said ram to move the door to a door-cleaning position, a vertically movable platform on said carriage near the said door-cleaning position, and means to raise and lower the platform so that an operator may readily clean the door when moved to said door-cleaning position.

---

**2,391,215**
**CULINARY UTENSIL**
**William C. P. Zabel, and Richard C. Helfenbein, Chicago, Ill.**
**Application June 26, 1944, Serial No. 542,155**
**1 Claim. (Cl. 210—161)**

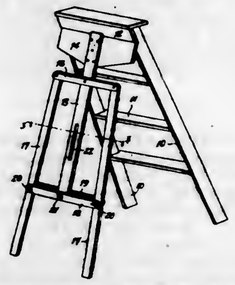
A strainer comprising a bowl formed of thermoplastic material and having an open bottom, a strainer member mounted in said bottom and having a portion inwardly of the peripheral edge portion thereof disposed substantially flush with



the inside wall of the bowl, the peripheral edge portion of said strainer bottom being offset with respect to said portion and being embedded in the wall of said bowl, substantially as described.

---

**2,391,216**
**STEPLADDER, TRESTLE, AND THE LIKE**
**John Allan, St. Kilda, Victoria, Australia**
**Application June 22, 1944, Serial No. 541,588**
**In Australia August 28, 1943**
**11 Claims. (Cl. 228—29)**



1. A step ladder or the like having a front stepped portion and a supporting prop, said prop comprising a longitudinally disposed member, means pivotally connecting the upper end of the longitudinally disposed member to an upper part of the front portion, a cross member pivoted intermediate its ends to the longitudinally disposed member, a pair of prop legs arranged one at each side of the longitudinally disposed member and pivotally connected to said cross member, and link means spaced from said cross member and pivotally connected to the prop legs in such a manner as to form a transverse guide for the adjacent part of said longitudinally disposed member which is capable of relative lateral movements.

---

**2,391,217**
**INNER SOLE AND METHOD OF MAKING THE SAME**
**Fred L. Ayers, Waltham, Mass.**
**Application April 15, 1944, Serial No. 531,140**
**25 Claims. (Cl. 36—22)**



1. A shoe innersole having a stitch-receiving rib and including a longitudinally folded strip,

one layer of which is secured to the face of the innersole with the line of fold facing the margin of the innersole, the upper layer of said strip projecting inwardly from the line of fold and secured in face to face contact with said one layer adjacent to the line of fold.

---

2,391,218
**POLYMERIZATION AND INTERPOLYMERIZATION OF ETHYLENE**
**Reginald George Robert Bacon, Manchester, and Raymond B. Richards, Northwich, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
**No Drawing. Application February 14, 1944, Serial No. 522,370. In Great Britain January 6, 1943**
**10 Claims. (Cl. 260—94)**

9. A process for the manufacture of polymeric materials which comprises heating ethylene under a pressure of at least 50 atmospheres in the presence of an aqueous medium, from 0.1 to 5% of a peroxy compound, and from 0.005 to 5% of a water-soluble salt of an oxy acid of sulphur with reducing properties selected from the group consisting of sulphites, dithionites, sulphoxylates, pyrosulphites, bisulphites, and thiosulphates.

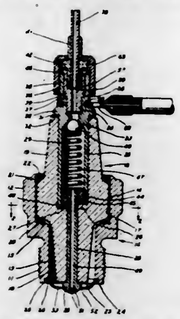
---

2,391,219
**PREPARATION OF ACIDS**
**Edward Payson Bartlett, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application September 25, 1942, Serial No. 459,740**
**5 Claims. (Cl. 260—541)**

5. In a process of converting an ester of acetic acid selected from the group consisting of methyl acetate and ethyl acetate to acetic acid, the step which comprises heating a mixture of the ester of acetic acid and water under a pressure between 40 and 600 lbs. per sq. in., while separating by distillation the alcohol formed under a similar pressure.

---

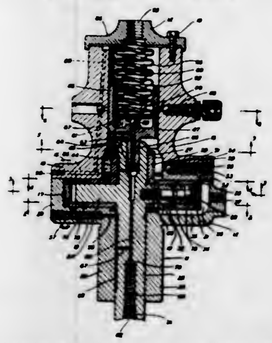
2,391,220
**INJECTION VALVE SPARK PLUG**
**Louis Beeh, Long Meadow, Mass.**
**Application June 7, 1944, Serial No. 539,200**
**4 Claims. (Cl. 123—169)**



1. A combined injection valve and spark plug comprising in coaxial arrangement a conductive outer shell, an insulating intermediate shell, a conductive inner tubing including one end shaped as a spray nozzle and an interior valve seat near its other end, a valve interiorly of said tubing for cooperation with said seat, and an electrode attached to said outer shell opposite said one end of said tubing, the other end of said tubing embodying first means for conductive connection with a cable and second means for insulated connection to a fuel-conducting pipe.

---

2,391,221
**MULTIPLE PUMP**
**Louis Beeh, Long Meadow, Mass.**
**Application July 4, 1944, Serial No. 543,445**
**9 Claims. (Cl. 103—6)**



1. A combined pump for fuel and oil comprising a rotor including side walls, a housing for said rotor in eccentric relation thereto so as to form with said rotor a first pump chamber and including side walls in fluid-tight engagement with said rotor side walls respectively, a roller in engagement with said housing and guided in radial slots provided in said rotor so as to be rotatable with the latter, an inlet and an outlet port for one of said two fluids in said housing and under the control of said roller, means to cause reciprocation of said roller radially in relation to said rotor, said means including a spring-biased plunger engaging said roller and tending to urge it against said housing, said rotor being provided with a radial cylindrical chamber constituting a second pump chamber with said plunger reciprocatable therein, an inlet port and an outlet port for the other one of said fluids in the rotor side walls respectively and in communication with said second pump chamber and orifices in the side walls of said housing so arranged as to communicate with said inlet and outlet ports respectively in predetermined angular positions of said rotor in relation to said housing.

---

2,391,222
**METHOD OF MAKING ELECTROMAGNETIC DEVICES**
**David G. Blattner, Mountain Lakes, N. J., assignor to Bell Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application June 22, 1944, Serial No. 541,481**
**6 Claims. (Cl. 29—155.5)**

1. The method of making and affixing a spacer in the air-gap of an electromagnetic relay for controlling the operation characteristics thereof which comprises forming said spacer with a flat intermediate section between narrow opposing flat end sections, applying the intermediate section of said spacer to the surface of the relay core



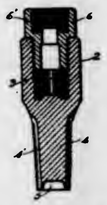
in said air-gap, folding the two end sections towards each other around the core, inserting the free ends of said end sections in the slot between the two tines of a forked operating tool, turning



said tool to roll said end sections over themselves until the flat intermediate portion of the spacer is drawn tightly against the surface of said core, and withdrawing the tool from the roll thus formed by said end sections of the spacer.

---

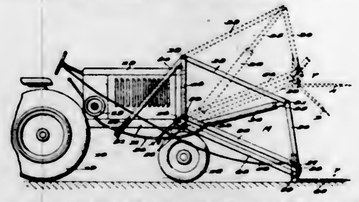
2,391,223
**THREAD CUTTING TOOL**
**Allen Burrows, Providence, R. I.**
**Application April 11, 1944, Serial No. 530,515**
**1 Claim. (Cl. 10—140)**



A combined tap and die for repairing connectors for brass and copper tubing, comprising a metal body having a tubular head provided with an internal screw-thread slotted axially and thereby adapted to cut an external thread on the shank of one of said connector units, said head being shaped externally to fit into a socket wrench, said body also including a shank portion in axial alignment with, and positioned close to, said head, said shank being externally screw-threaded and grooved to form a tap adapted to fit the internal thread on said connector unit, the lower end of said shank being recessed axially to accommodate the nipple at the bottom of the socket in said connector unit.

---

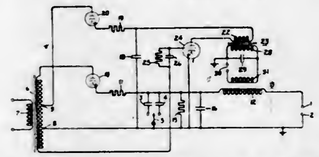
2,391,224
**APPARATUS FOR LIFTING AND TRANSFERRING MATERIALS**
**Alfred Miller Carter, Galion, Ohio, assignor to Carter Machine Company, Ltd., a partnership**
**Application August 10, 1944, Serial No. 548,866**
**2 Claims. (Cl. 214—140)**



1. A material gathering and elevating attachment for automotive tractors, comprising bracket means detachably secured to the front end of a frame of such a tractor, a pair of forwardly extending arms arranged at each side of the tractor, pivotal connections uniting the rear ends of said arms with said bracket means, upright arms pivotally secured at their lower ends to said bracket means, reach links joined with the upper ends of said upright arms, the lower ends of said reach links being secured to the associated tractor frame, a yoke pivotally connected at its lower ends with the outer end portions of said forwardly extending arms, a frame disposed in parallel relation with said forwardly extending arms, the rear ends of said last-named frame being pivotally connected with the upper ends of said upright arms and the outer ends thereof with the upper ends of said yoke, a fluid-actuated extensible jack mechanism comprising a cylinder and a movable plunger, pivotal means uniting the inner ends of said cylinder with said forwardly extending arms adjacent to their points of connection with said bracket means, a pivotal connection uniting the outer end of the movable plunger with the upper end portions of said yoke and the outer end portions of the last-named frame, and a load receiver carried in connection with the outer ends of said forwardly projecting arms.

---

2,391,225
**SPARK GENERATOR FOR SPECTROGRAPHIC ANALYSES**
**Howard L. Clark, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York**
**Application October 21, 1943, Serial No. 507,210**
**3 Claims. (Cl. 315—241)**



1. In combination a capacitor and a half wave rectifier connected in series to be energized from a source of alternating current supply, a discharge circuit for said capacitor including a spark gap, a second capacitor and a second half wave rectifier connected in series to be energized from said source of supply, a high frequency generator, a discharge circuit for said second capacitor including a grid controlled electron discharge device and means responsive to the discharge current passed thereby for energizing said generator, means energized by said source for controlling the grid circuit of said device, and means connected to said high frequency generator and interposed in series relation in the discharge circuit of said first-mentioned capacitor to said spark gap for inducing a high frequency voltage in said first mentioned discharge circuit from said generator.

---

2,391,226
**METHOD OF PREPARING A CYCLIC DICARBOXYLIC ACID ANHYDRIDE**
**Albert M. Clifford, Stow, and Clyde E. Gleim, Akron, Ohio, assignors to Wingfoot corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application February 25, 1943, Serial No. 477,105**
**11 Claims. (Cl. 260—342.4)**

4. A method of preparing a cyclic dicarboxylic acid anhydride which comprises reacting equimolar quantities of a diolefin and a chloro-substituted maleic anhydride to form an addition compound and heating said Diels-Alder addition compound in the presence of a dehydrochlorination catalyst to remove hydrogen and chlorine atoms.

2,391,227
**SOLVENT EXTRACTION OF SYNTHETIC LATICES**

**Albert M. Clifford, Stow, Ohio, and Charles F. Winans, Edgewood, Pa., assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

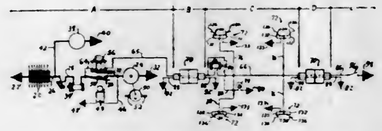
No Drawing. Application May 12, 1942, Serial No. 442,622
3 Claims. (Cl. 260—84)

1. The method of extracting an unreacted acrylic nitrile from an emulsifier-containing synthetic latex produced by a co-polymerization process which utilizes only a part of the acrylic nitrile present in the polymerization formula which comprises extracting the latex with an alkyl ether of 8 to 10 carbon atoms, thereby dissolving acrylic nitrile in the ether, and then separating from the latex the ether and the acrylic nitrile dissolved therein by subjecting the mixture containing the latex to separation in a centrifuge giving the effect of at least 5000 times that of gravity.

2,391,228
**CONTROL SYSTEM**

**Leslie Day, Chicago, Ill., assignor of one-half to Lamar L. Day, St. George, Staten Island, N. Y.**

Application August 6, 1942, Serial No. 453,872
14 Claims. (Cl. 246—170)



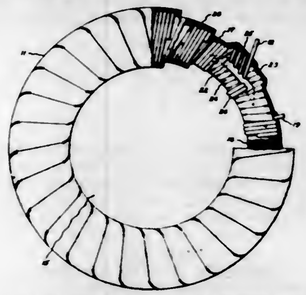
1. In an electrical system for controlling the application of the brakes of a railroad train having an air brake system with a valve therefor, a main control system including a battery having a ground, an electric motor having a ground and operably connected to the air valve, a main circuit wire adapted to connect the battery and motor together, a delayed action circuit breaker and a normally open main control switch interposed in the main circuit wire, a control circuit wire extending throughout the length of the train and connected to the main circuit wire between the circuit breaker and the main switch, a magnet interposed in the control circuit and adapted to close the main switch when energized by current flowing through the control circuit, and an auxiliary switch having one part connected to the control circuit wire and the other part grounded, said switch being normally open and so positioned on a car of the train that same will strike a rail and be closed upon derailment of said car.

2,391,229
**ELECTRIC INDUCTION APPARATUS**

**Franklin R. D'Entremont, Lynn, Mass., assignor to General Electric Company, a corporation of New York**

Application November 27, 1943, Serial No. 511,972
1 Claim. (Cl. 29—155.57)

The method of forming a core for an electrical induction apparatus including the steps of bending magnetic strip material to form a plurality of layers of a core, providing a spacer bar between adjacent layers, placing cement material hardenable during a subsequent annealing step between said adjacent layers at the sides of said spacer bar, annealing the core, and removing the spacer bar so that the cement will hold the adjacent

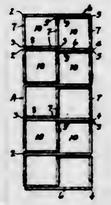


layers spaced with an opening where the bar had been removed.

2,391,230
**AMMUNITION CARTON**

**Harry K. Dickerman, Buffalo, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware**

Application January 28, 1942, Serial No. 428,593
13 Claims. (Cl. 93—37)



1. In a carton, in combination, a multicellular carton part including in its construction a continuous sheet bent along substantially parallel spaced lines to form enclosing wall sections for a multiplicity of article receiving cells arranged in a plurality of series, each said series of cells including opposite end cells and at least one intermediate cell, the spacing of certain of said lines being greater than that of others so as to form transverse unbent wall sections overlapping a plurality of said series of cells, sections of said cell walls of the different series of cells being positioned at opposite sides of the respective unbent transverse wall sections and respectively attached to the latter at longitudinally spaced parts thereof.

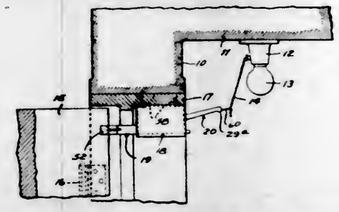
3. A method of making a multicellular carton, including: weakening a sheet of material to bending along substantially parallel lines, certain of which are spaced apart a greater distance than others, bending the sheets thus weakened along said weakened lines to bring sheet sections between adjacent weakened lines into position to form cell walls of cells arranged in a plurality of series, and to bring certain of said sheet sections into contacting relation with each other, each of said cell series having opposite end cells and at least one intermediate cell and said bending of the sheet being in one direction for said cells of one series and in the opposite direction for the cells of another series, the sheet being bent on said weakened lines with greater spacing to bring the sheet sections of greater width therebetween into position to extend transversely across said plurality of series of cells and intermediate adjacent cells of the series at a plurality of points spaced at substantially cell-width intervals along the carton part and securing said contacting sections together, including those of greater width.



2,391,231
**SWITCH OPERATING DEVICE**

**Robert S. Edwards, New Canaan, Conn., assignor to Edwards and Company, Inc., Norwalk, Conn., a corporation of New York**

Application August 7, 1943, Serial No. 497,734
13 Claims. (Cl. 200—54)

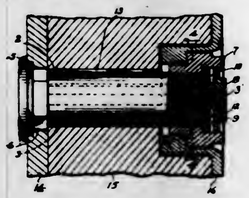


1. In apparatus of the character described, in combination, a support adapted to be attached adjacent a door, an actuator having means for attaching thereto the pull member of a pull-chain switch, means mounting said actuator for oscillation relative to said support, a cam bar, means slidably supporting said cam bar in said support for reciprocating movement, and a spring biased member positionable in the path of closing movement of the door, said cam bar having cam means and said actuator having cam follower means coacting therewith for effecting a cycle of oscillation of said actuator for each stroke of reciprocation of said cam bar.

2,391,232
**BOLT**

**Sydney T. Farrell and Frederick L. Farrell, Belmont, Mass.**

Application March 22, 1944, Serial No. 527,602
6 Claims. (Cl. 151—32)



4. A bolt of the character described, comprising two sections telescoped, one within the other, cushioning material interposed between said sections and substantially isolating one section radially from the other, said sections having adjacent end portions which are oppositely screw-threaded, right and left-hand nuts threaded on said respective screw-threaded portions, the bore of said outer section and the outer surface of said inner section being complementally grooved and ribbed, and said cushioning material filling the greater part of the space between said grooved and ribbed surfaces, whereby it cushions both relative radial movement of one section on the other and also a turning movement of either section relatively to the other around the common axis of the two sections, said nuts being so associated with each other as to transmit any backing-off movement of one to the other, and thereby tending to tighten the latter.

2,391,233
**POLYMERIZATION OF BUTADIENE-1,3 HYDROCARBONS**

**Elbert E. Gruber, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**

No Drawing. Application December 7, 1944, Serial No. 567,117
8 Claims. (Cl. 260—86.5)

1. The method which comprises polymerizing a butadiene-1,3 hydrocarbon in aqueous emulsion in the presence of a ketol in which a hydrogen atom and the hydroxyl group are attached to a carbon atom adjacent to the keto group, and also in the presence of an organic polysulfide.

2,391,234
**VULCANIZATION OF RUBBER**

**Albert F. Hardman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

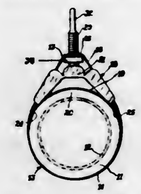
No Drawing. Original application February 26, 1943, Serial No. 477,263. Divided and this application February 5, 1945, Serial No. 576,371
2 Claims. (Cl. 260—793)

1. The method of treating rubber which comprises vulcanizing it in the presence of the addition product of equimolecular proportions of carbon bisulfide and 1-(α-dimethylaminobenzyl)-naphthol-2.

2,391,235
**HOSE CLAMP**

**Charles E. Hathorn, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware**

Application February 15, 1943, Serial No. 476,016
9 Claims. (Cl. 24—19)

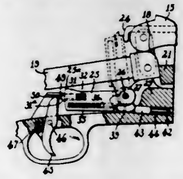


1. In a hose clamp, a flexible band which is adapted to encompass a hose and conformably engage a circumferential portion thereof, an arcuate, flexible band section for conformably engaging a complementary circumferential portion of said hose, a bridge-piece having connections with spaced portions of said band section and spaced from the said band section between said connections, and adjustable means acting against said band and through the agency of said bridge-piece, band section and connections to cause said band and band section to engage and compress said hose substantially uniformly throughout its entire circumferential extent when said clamp is tightened by said means, said bridge-piece being yieldable so that the curvature of said band section may be caused to change as the latter compresses the engaged portion of said hose.

2,391,236
**OXIDATION OF PARAFFINIC HYDROCARBONS**
**Sabine Hirsch, Minneapolis, Minn.**
No Drawing. Application August 25, 1943, Serial No. 500,005
17 Claims. (Cl. 260—451)

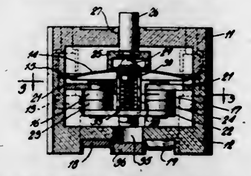
1. The process which comprises heating a high molecular weight paraffinic hydrocarbon to a temperature such that the hydrocarbon is liquefied, said temperature being not in excess of 150° C., intimately admixing with the heated liquid hydrocarbon catalytic amounts of a heavy metal soap and a metal per-salt, the latter at least being carried by an emulsion of water, a water-soluble soap, and an oleaginous material selected from the class consisting of fats and fatty acids, then dispersing throughout the reaction mass a gas comprising oxygen and a minor amount of moisture, while maintaining the emulsion throughout the oxidizing process and separating the reaction product so formed in the process.

2,391,237
**HAMMER MECHANISM FOR FIREARMS**
**Timothy F. Horan, New Haven, Conn.**
Application January 6, 1944, Serial No. 517,159
6 Claims. (Cl. 42—69)



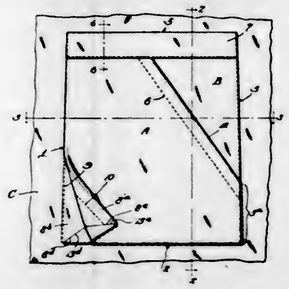
1. A firearm comprising a receiver, a hammer pivoted to the receiver, a spring constructed and arranged to actuate the hammer, a movable follower against which said spring reacts to maintain it under tension during the active stroke of the hammer, and means urging said follower toward said spring.

2,391,238
**SNAP SWITCH**
**John H. Horman, Tuckahoe, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York**
Application March 27, 1943, Serial No. 480,743
2 Claims. (Cl. 200—159)



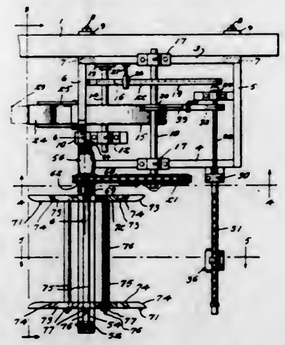
2. In an electric switch, a stationary support, a movable support, a threaded bolt carried by said movable support, a U-shaped element having its bight contacting said support and having a bight opening through which said bolt extends, means on said bolt attaching said U-shaped element to said movable support, a first contact member slidably connected to the leg ends of said U-shaped element, an expansion spring interposed between said first contact member and the bight of said U-shaped element, a nut threaded on said bolt and engaging said first contact member to limit movement thereof away from said movable support, and a second contact member carried by said stationary support.

2,391,239
**POCKET CONSTRUCTION**
**Louis Horwitz, El Paso, Tex., assignor to Hortex Manufacturing Company, El Paso, Tex., a firm**
Application March 9, 1945, Serial No. 581,781
5 Claims. (Cl. 2—253)



1. In a multi-compartment pocket construction a backing web; an intermediate web; an outer web; pleated edge portions on said outer web forming V-shaped attaching sections; stitching joining free edges of said attaching section to said backing web; and other stitching joining the edges of said intermediate web to said attaching sections.

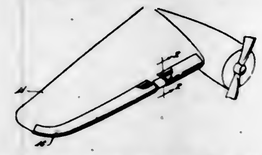
2,391,240
**WIRE WINDING AND UNWINDING REEL**
**John W. Houston, Tama, Iowa**
Application January 8, 1944, Serial No. 517,565
6 Claims. (Cl. 242—54)



1. A wire winding and unwinding mechanism comprising a supporting structure, a slip clutch rotatably supported on the said structure having a socketed driven member, a frame attached to said supporting structure and having an upstanding post having an end spaced from said socketed member, a bearing carried by said upstanding post and aligned with said driven member, a reel shaft adapted to have one end operatively coupled in said socketed member and having its other end rotatably supported in said bearing, means for turning said clutch to impart turning movement to the shaft, and said post being shiftably supported by the frame for moving the bearing out of alignment with the driven member.

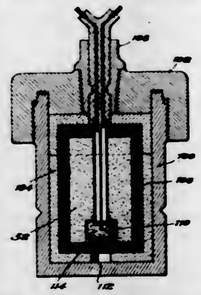


2,391,241
**PROTECTIVE COVERING FOR AIRCRAFT SURFACES AND THE LIKE**
**Wilson H. Hunter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
Application October 14, 1943, Serial No. 506,156
3 Claims. (Cl. 244—134)



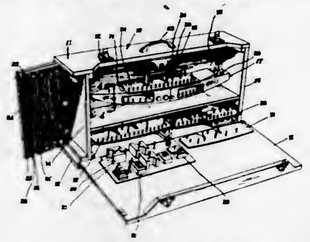
1. A protective covering for the leading edge of an airfoil, said covering comprising an elastic sheet having spanwise attaching margins, said sheet being divided in the spanwise direction between said margins providing two sections, a slide fastener structure for joining said sections and including cooperating spaced-apart teeth defining passages for the flow of air therebetween, said fastener structure being adapted to conduct air along the length thereof and being open to the atmosphere at an end thereof, and a multiplicity of spaced-apart chordwise-extending ribs on the inner surface of said sheet terminating at said fastener structure and defining a multiplicity of chordwise-extending channels open to the conducting space provided by said fastener structure for communication of said inner surface with the atmosphere through said channels and fastener structure.

2,391,242
**THERMIT BOMB**
**Ross C. Hurrey, Ashton, Md., assignor of one-half to Clarence B. Hurrey, Ashton, Md.**
Application February 11, 1941, Serial No. 378,449
8 Claims. (Cl. 102—90)



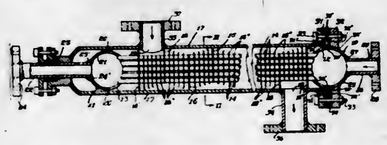
1. An incendiary device comprising a sealed metal shell of substantial strength, a refractory lining for said shell, an inner lining of cellulosic material within said refractory lining, a charge of Thermit mixture within said inner lining, means for igniting said Thermit mixture, and means forming a weakened portion in said shell whereby said Thermit mixture, when ignited, will rupture said shell so that gases developed by decomposition of said cellulosic material under the influence of the Thermit reaction may expel the Thermit mixture forcibly through the localized opening thus created.

2,391,243
**CENTER-OF-GRAVITY LOCATION INDICATOR**
**James H. Hutton, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware**
Application July 16, 1943, Serial No. 495,003
3 Claims. (Cl. 235—61)



3. In a balance indicator for determining the center of gravity position of a vehicle within a permissible range of center of gravity shift for any one of a number of load distribution conditions, a model which is proportionate as to weight and center of gravity location with the vehicle and on which proportionate vehicle load conditions may be produced, a pivot forming support, a member pivoted on said support, bracket arms on said model, a model carrier block fixed on said pivoted member, said carrier block having an index point thereon, a threaded element rotatably mounted in said bracket arms and threadedly engaging said carrier block to suspend said model for movement in a plane transverse to the axis of said pivoted member whereby said loaded model may be adjusted bodily to a balanced position, level means for indicating the balanced position of said model, and a scale means arranged on said bracket arms for cooperation with the said carrier block index point upon threading rotation of said threaded element in said carrier block thereby directly indicating the center of gravity location of said model and hence of the vehicle with respect to the permissible range of center of gravity shift when said model attains a balanced position.

2,391,244
**HEAT EXCHANGER**
**James O. Jackson, Crafton, Pa., assignor to Pittsburgh-Des Moines Company, a corporation of Pennsylvania**
Application March 21, 1942, Serial No. 435,750
5 Claims. (Cl. 257—236)



1. A heat exchanger comprising a tubular shell having longitudinally spaced inlet and outlet

ports, a bundle of tubes extending longitudinally of the shell, a series of parallel baffles carried by said tube bundle, extending at right angles to the major axis of the shell and dividing the shell between said ports into a series of connecting compartments so constructed and arranged as to cause the fluid entering the inlet port to reverse its direction of travel through adjacent compartments of the series, and a series of plate fins carried by the tube bundle between said baffles, arranged in parallel relation thereto and each having oppositely curved fluid directing terminal portions; the construction and arrangement being such that fluid entering said inlet flows successively through said compartments, is separated by said plate fins into relatively thin parallel layers, and friction in the fluid entering and leaving the compartments is minimized by the oppositely curved fluid directing terminal portions of said plate fins.

---

**2,391,245**
**BALL BEARING**
**Karl A. Kail, Montrose, Pa., assignor to Link Aviation Devices, Inc., Binghamton, N. Y., a corporation of New York**
**Application January 20, 1944, Serial No. 518,983**
**8 Claims. (Cl. 308—201)**

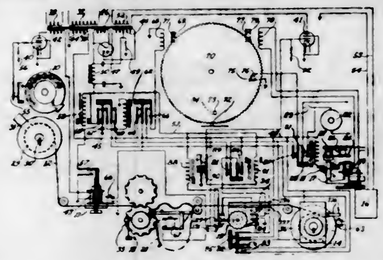


1. A bearing comprising an outer and an inner race, a plurality of rigid circumferentially separated, arcuate segments each having a plurality of transverse openings therethrough, a ball in each of said transverse openings, and resilient means between said segments.

---

**2,391,246**
**AUTOMATIC PHONOGRAPH**
**Mahlon W. Kenney, Oak Park, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois**
**Application November 4, 1944, Serial No. 561,987**
**18 Claims. (Cl. 177—353)**

1. A multiselective phonograph having a plurality of displaceable members each corresponding to an individual recording, stepping mechanism responsive to impulses to displace any of said members, a broad tape, a punching mechanism arranged to be actuated by a series of impulses to punch a series of openings in a transverse direction across said tape, means for moving said tape longitudinally, a pickup means through which said tape passes, means associated with said pickup means for arresting said tape when a series of openings is aligned with said pickup means, means for moving said pickup means transversely over a series of openings in



the tape to pick up a series of impulses, and means for supplying the picked up impulses to the stepping means.

---

**2,391,247**
**CARTON OR BOX OPENER**
**Carl T. Knudtson, Blue Earth, Minn.**
**Application July 7, 1944, Serial No. 543,922**
**1 Claim. (Cl. 30—2)**

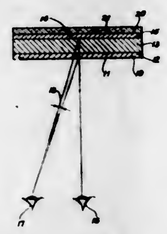


A box-opening tool comprising a length of substantially wide metal, portions of the metal being curved rearwardly providing a contracted hollow handle section circular in cross-section, and a blade section, one end of the handle section being formed into a wide rearwardly curved end on which pressure is exerted in operating the tool to pry a box open, said blade section being curved in the arc of a circle throughout its entire length, the free end of the blade being curved and beveled throughout its entire length providing a cutting edge, the beveled cutting edge continuing from the curved end, along the straight side edges of the blade.

---

**2,391,248**
**STEREOSCOPIC ACUITY TESTING DEVICE**
**George J. Koch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application November 7, 1942, Serial No. 464,852**
**4 Claims. (Cl. 88—28)**

1. A device for testing stereoscopic acuity comprising, a pair of distinguishable indicia, transparent sheet means for carrying said indicia and through which at least one of said indicia is viewable, said means being of a thickness to space said indicia in depth a distance whose magnitude corresponds to a stereoscopic angle of the

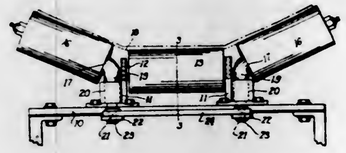


same order as the limit of stereoscopic vision of an observer, and a reflection reducing layer carried by said means for covering the indicia nearer the observer to prevent depth relation clues due to reflection at said nearer indicia.



---

**2,391,249**
**SELF-ALIGNING IDLER FOR CONVEYER BELTS**
**Eugene E. Landahl, Detroit, Mich.**
**Application October 7, 1944, Serial No. 557,609**
**2 Claims. (Cl. 198—202)**

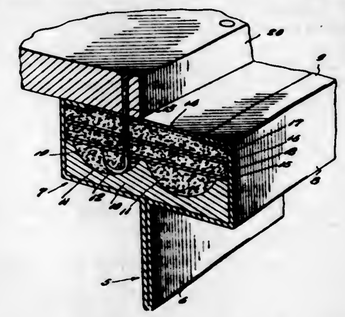


1. An idler assembly for the support of conveyer belts comprising a base, spaced bearing brackets carried by said base, a middle roll, means carried by said brackets supporting said middle roll for rotation about a substantially horizontal axis, an upwardly inclined side roll arranged at each end of said middle roll, spindles for the rotatable support of said side rolls, said spindles terminating at the inner ends of said side rolls in downwardly directed substantially vertically disposed extensions, the latter being turnably positioned in openings provided therefor in said brackets and disposed between the adjacent ends of the middle and side rolls, crank arms joined with the lower ends of said extensions, and a link member having its ends pivotally connected with the outer ends of said crank arms.

---

**2,391,250**
**COMPOSITE BEAM**
**Thaddeus A. B. Legowik, Great Falls, Mont.**
**Application August 18, 1944, Serial No. 550,084**
**4 Claims. (Cl. 189—37)**

1. A composite beam for building in construction work comprising a T-shaped part fashioned from a single plate of light weight metal bent between its ends to define a central longitudinally extending flange forming a rib, and a hollow box-like head, the upper edges of the side walls of said head being inturned to provide assembling flanges, and a core embodied in said head, said core being of laminated form, the laminations being made up of alternate soft metal plates and intervening packed fillers.



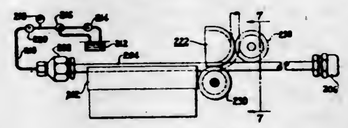
---

**2,391,251**
**DERIVATIVES OF FATTY ACIDS AND METHOD OF PREPARING SAME**
**John R. Long, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application August 8, 1941, Serial No. 405,998**
**2 Claims. (Cl. 260—464)**

1. The cyanhydrin acetates of pyruvic acid esters.

---

**2,391,252**
**REFRIGERATING APPARATUS**
**Chester F. Louthan, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application June 12, 1944, Serial No. 539,840**
**1 Claim. (Cl. 219—3)**



The method of forming tubing which comprises, applying an internal pressure within the tubing, applying a bending force to the tubing to bend the tubing through an angle and while under such force and internal pressure sending an electric current through that portion of the tubing at which the bending is desired to heat and facilitate the bending of the tubing at that portion.

---

**2,391,253**
**PREPARATION OF SOLS**
**Morris D. Marshall, Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Original application April 30, 1942, Serial No. 441,212, now Patent No. 2,356,773, dated August 29, 1944. Divided and this application June 28, 1944, Serial No. 542,629**
**3 Claims. (Cl. 252—309)**

1. The method of forming an aqua-organosol composed of colloidal silica, water and a rela-

tively minor amount of organic solvents which comprises forming an aquasol containing colloidal silica and a dissolved inorganic salt, adding a sufficient quantity of ethyl alcohol to precipitate the inorganic salt, removing the inorganic salt precipitated thereby, adding a sufficient quantity of a lower alkyl acetate to cause the separation of an aqua-organosol layer, and separating the aqua-organosol layer which forms.

---

2,391,254
**PREPARATION OF SOLS**
**Morris D. Marshall, Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Original application April 30, 1942, Serial No. 441,212, now Patent No. 2,356,773, dated August 29, 1944. Divided and this application June 28, 1944, Serial No. 542,632**
**3 Claims. (Cl. 252—309)**

1. The method of forming an aqua-organosol composed of colloidal silica, water and a relatively minor amount of organic solvents which comprises forming an aquasol containing colloidal silica and a dissolved inorganic salt, adding a sufficient quantity of acetone to precipitate the inorganic salt precipitated thereby, adding a sufficient quantity of a water-immiscible alcohol to cause the separation of an aqua-organosol layer and separating the aqu-organosol layer which forms.

---

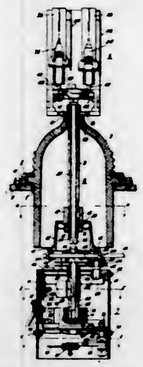
2,391,255
**PREPARATION OF SOLS**
**Morris D. Marshall, Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Original application April 30, 1942, Serial No. 441,213, now Patent No. 2,356,774, dated August 29, 1944. Divided and this application June 28, 1944, Serial No. 542,633**
**5 Claims. (Cl. 252—313)**

1. The method of forming an aquasol substantially composed of a colloidal inorganic oxide and water which comprises forming an aquasol containing a colloidal inorganic oxide and a dissolved inorganic salt, adding a water-miscible organic solvent selected from the group consisting of methyl alcohol and normal propyl alcohol, said solvent being added in an amount sufficient to precipitate the inorganic salt, removing the inorganic salt precipitated thereby, adding additional water to the resulting organo-aquasol and removing the organic solvent by distillation.

---

2,391,256
**ELECTRIC SWITCHING SYSTEM**
**James F. McKenney, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Original application July 15, 1942, Serial No. 450,977. Divided and this application March 10, 1943, Serial No. 478,728**
**3 Claims. (Cl. 171—119)**

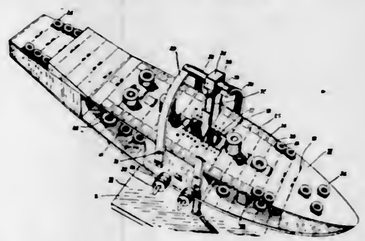
1. In combination, a transformer tank containing a multi-tapped transformer winding and a mid-tapped switching reactor, a single insulating bushing mounted in an opening in said tank, load-ratio-control switching means mounted on said bushing, interconnections between said taps, said switches and said reactor, external connections for said winding, and means including spaced openings in said bushing for insulating



all of said connections where they pass from the inside to the outside of said tank.

---

2,391,257
**CENTER OF GRAVITY LOCATION INDICATOR**
**Charles Ray McWhorter, Ferguson, Mo., assignor to Curtiss-Wright Corporation, a corporation of Delaware**
**Application June 23, 1943, Serial No. 492,174**
**3 Claims. (Cl. 235—61)**



3. In a balance indicator, a model structure which has a weight and a center of gravity location proportionate to an actual vehicle to be loaded, said model structure being formed with an opening extending therethrough in the region of its center of gravity and having a center of gravity scale thereon adjacent said opening, which scale is of an extent to include the predetermined safe range of shift of the center of gravity, a support member for said model structure extending through said opening and having an indicia thereon by which the balance point for said model structure may be found, relatively slidable cooperating means for adjustably pivotally mounting said model structure on said support member, proportionate weights representative of load which are adapted to be disposed temporarily on said model structure and which may unbalance the same, and a pointer element cooperating with said center of gravity scale and said balance point indicia for indicating the center of gravity of said representatively loaded model structure when said pointer and indicia are brought into registry by adjusting said model structure through said means.

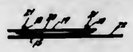


2,391,258
**TREATMENT OF WATER CONTAINING CHLORIDES AND SODIUM DISSOLVED THEREIN**
**Howard D. Meincke, Jr., Glencoe, Ill., assignor to Howard D. Meincke, Sr., Glencoe, Ill.**
**No Drawing. Application March 25, 1944, Serial No. 528,172**
**2 Claims. (Cl. 210—23)**

1. The process of treating a saline solution, containing chlorine and sodium dissolved therein, said process consisting in adding to such solution phenyl mercury hydroxide and a base exchange resin in relative proportions such as to precipitate a major portion of the chlorine constituents of the chlorides in said solution as phenyl mercury chloride and to enable the base exchange resin to form an insoluble compound with the sodium constituent of the said water, and removing the precipitated chlorides and the aforesaid compound.

---

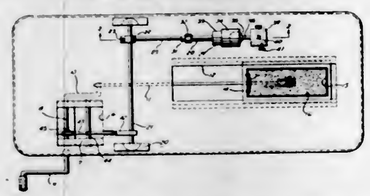
2,391,259
**KNIFE CLEANER FOR TYPE-CASTING MACHINES**
**Herman W. Michalke, Denver, Colo.**
**Application September 23, 1944, Serial No. 555,536**
**5 Claims. (Cl. 199—62)**



1. A blade wiper for cleaning the edges of the side knives of a type-casting machine of the type having a vertically reciprocating knife wiper bar positioned to one side of said knives, comprising: a back plate having vertically-arranged screw openings in its one extremity to permit attachment to the wiper bar of the machine so that the plate will extend horizontally from one side of said bar across the front of the knife edges; and a floating wiper blade resiliently supported from said back plate between the latter and the knife edges.

---

2,391,260
**DENTAL TOOL SHARPENING DEVICE**
**Chant A. Miller, Winamac, and Samuel L. Border, Monon, Ind.**
**Application March 2, 1945, Serial No. 580,664**
**2 Claims. (Cl. 51—59)**



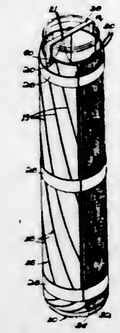
1. A tool sharpener comprising a reciprocably mounted sharpening stone, means for reciprocably actuating the stone and including a rotatable shaft, a rock shaft, means for actuating the rock shaft by operation of the rotatable shaft, and a tool holding arm attached to the rock shaft for raising the arm during movement of the stone in one direction, said arm including a swivelly mounted tool holder adapted for holding a tool in a predetermined universally adjustable position above the stone, and said arm gravitating into a position for contacting the tool with the stone upon movement of the stone in an opposite direction.

2,391,261
**CATALYTIC REACTIONS**
**Charles R. Milone, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**No Drawing. Application August 25, 1942, Serial No. 456,090**
**6 Claims. (Cl. 260—342.6)**

6. The method of converting maleic anhydride to monochloromaleic anhydride which comprises chlorinating molten maleic anhydride which contains a chlorination catalyst and a halide of an alkaline earth metal.

---

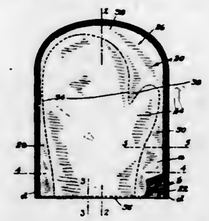
2,391,262
**PARACHUTE**
**Frank E. Monks, Pittsburgh, Pa., assignor to Fuller Label & Box Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 15, 1943, Serial No. 510,347**
**5 Claims. (Cl. 244—142)**



1. A centrally apertured parachute embodying alternate reverse fold lines angulated with reference to one another and converging from the outer periphery of the chute toward the margin of the central aperture, one set of alternate fold lines being angulated and spaced with reference to the other so that when the folds are flattened to form a series of plaits the fold lines of one of said alternate sets are substantially parallel to one another.

---

2,391,263
**BAKER'S SAFETY GLOVE**
**Alexander Morton, Bloomfield, N. J.**
**Application March 6, 1944, Serial No. 525,201**
**3 Claims. (Cl. 2—20)**

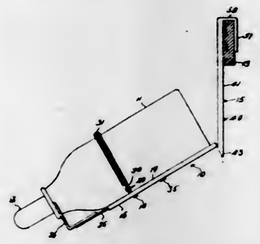


1. A baker's safety glove comprising two superposed flat pad sheets secured together at their sides and top and left open at their bottom and

forming a double faced glove, the said pad sheets being secured together inwardly of their side and top edges and thereby subdividing the pad sheets into an inner hand receiving pocket and an outer border extending at the sides and top of the hand receiving pocket, the resulting structure forming interchangeably a right hand or a left hand glove with either face thereof usable as the working face.

---

**2,391,264**
**NURSING BOTTLE HOLDER**
**Fred Nickelson, Topeka, Kans.**
**Application June 21, 1944, Serial No. 541,316**
**2 Claims. (Cl. 248—103)**

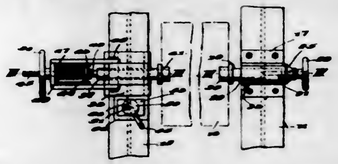


1. In a device for holding a nursing bottle, a base plate comprised of a member having its outer edges inwardly turned to provide channels, and a second member slidably mounted in said channels, resilient means, comprised of a leaf spring secured to said second-mentioned member and bearing on the surface of said first-mentioned member to present frictional resistance to the sliding of said second member in said channel, additional resilient means comprised of a coil spring secured to said second member for securing said bottle to said base plate, a backing plate comprised of a member having its outer edges inwardly turned to form channels and a member comprising an angularly disposed extension of said first-mentioned base plate member slidably mounted in said channels, whereby the position of said base plate with respect to the length of said backing plate may be varied, resilient means, comprised of a leaf spring secured to said angularly disposed extension and bearing on the surface of said first-mentioned backing plate member to present frictional resistance to the sliding of said angularly disposed extension in said channels of said first-mentioned backing plate member, and means comprising a hook-shaped portion at the extremity of said first-mentioned backing plate member for suspending the device from a suitable support.

---

**2,391,265**
**PAPER ROLL SUPPORTING RACK**
**Edward Palmer, Columbus, Ohio, assignor to Ohio Wax Paper Company, Columbus, Ohio, a corporation of Ohio**
**Application January 25, 1944, Serial No. 519,615**
**4 Claims. (Cl. 242—68)**

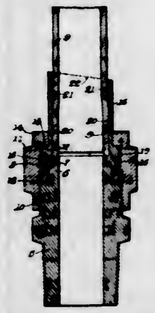
2. In a rack for rotatably supporting spirally wound paper rolls, a frame, a bearing on said frame, an arbor rotatably and slidably mounted in said bearing, said arbor being conically pointed at one end, a pivotally mounted bail having an opening formed therein, a threaded rod loosely positioned for sliding adjustment in the opening provided in said bail, an antifriction bearing carried by one end of said rod and adapted for engagement with the conically pointed end of said arbor, a coil spring surrounding said rod and posi-



tioned between said bail and said antifriction bearing, and a nut carried by the threaded shank of said rod and cooperative with said bail to control the expansion and contraction of said spring.

---

**2,391,266**
**TUBE AND PROTECTIVE SLEEVE ASSEMBLY**
**Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 31, 1941, Serial No. 386,201**
**4 Claims. (Cl. 285—86)**



1. A tube element assembly comprising a metal tube to be coupled, and a thin flexible metal protective sleeve surrounding said tube at one end and including a flared portion opposed to the end portion of the tube, opposed wall portions of said tube and sleeve being engaged in permanent intimate wall-to-wall contact, and said tube being flared against the flare of the sleeve, said permanently and intimately engaged wall portions extending throughout a substantial portion of but less than the whole length of the sleeve commencing at the flared portion, thereby to gradually dampen vibrations set up in said tube when secured in a coupling.

---

**2,391,267**
**AMIDES**
**William Jennings Peppel, Bellemeor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application September 13, 1942, Serial No. 458,811**
**11 Claims. (Cl. 260—402.5)**

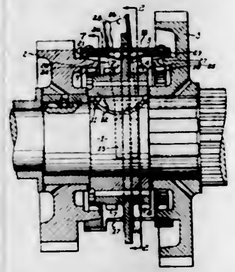
9. An N,N'-thiobisamide of the formula

RCO—NH—S—NH—COR

wherein RCO is the acyl radical of a saturated fatty acid of at least eight carbon atoms.



**2,391,268**
**SYNCHRONIZING CLUTCH**
**Carl D. Peterson and Robert R. Burkhalter, Toledo, Ohio**
**Application October 2, 1944, Serial No. 556,963**
**7 Claims. (Cl. 192—53)**



1. In a synchronizing clutch of the type shiftable in opposite directions from neutral to connect together driving and driven elements through different speed ratios, including two members, one being a toothed member rotatable with and shiftable axially of one of said elements into and out of clutching engagement and having an annular peripheral flange, the flange being formed with arcuate slots extending through the opposite faces thereof, the other being a friction member and including a cylindrical band having lengthwise slots opening through one end only of the band, the portions between the lengthwise slots constituting prongs extending through the arcuate slots of the flange, the prongs coacting at their side edges with the end walls of the arcuate slots to block relative shifting movement until the speeds of the driving and driven elements approach synchronization, and means extending through at least one of the arcuate slots and coacting between its ends with said flange and secured at its ends to said other member, to resist said relative shifting movement of said members, and shifting means coacting with said flange.

---

**2,391,269**
**FILM SPOOL**
**Harlow D. Philips, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application February 9, 1942, Serial No. 429,969**
**5 Claims. (Cl. 95—9)**



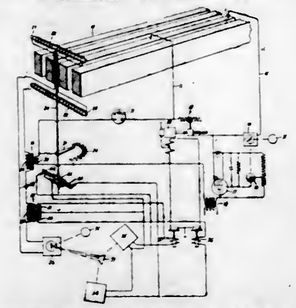
1. A film roll comprising, in combination, a film spool, a strip of sensitized photographic film wound on said spool, a pair of inwardly directed annular marginal flanges formed on said spool and spaced apart a distance less than the width of said strip, said strip being formed with a marginal notch positioned adjacent the trailing end of said strip, one of said flanges being engageable in said notch when said trailing end of said strip is wound onto said spool to limit the winding of said strip and to retain said trailing end in projecting position to indicate the exposure of said strip.

**2,391,270**
**PROCESS FOR THE SEPARATION OF ISOQUINOLINE**
**Frederick E. Reimers, Rahway, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**
**No Drawing. Application July 8, 1943, Serial No. 493,923**
**7 Claims. (Cl. 260—283)**

1. In a process for separating a product enriched in isoquinoline from a mixture containing this base and like-boiling nitrogen bases, the step which comprises precipitating from said mixture the calcium chloride addition compound of isoquinoline, and separating the precipitated material.

---

**2,391,271**
**FLUX MEASUREMENT**
**Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application September 1, 1943, Serial No. 500,803**
**7 Claims. (Cl. 171—95)**



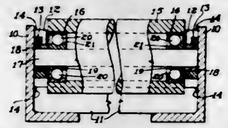
1. A direct current measuring system in combination with the conductor in which the current is to be measured, a direct current metering circuit the current in which is regulated in response to the voltage drop across a section of such conductor, means for comparing the proportionality between the current flowing in said metering circuit and said conductor comprising a flux measuring circuit containing a fluxmeter and means for simultaneously causing said flux measuring circuit to be linked by flux produced by current flow in said conductor and by flux produced by current flow in said metering circuit but in opposite directions such that the fluxmeter responds to the difference in such flux linkages, and means controlled by said fluxmeter for calibrating the regulation of the metering circuit as needed to cause the current flow therein to be a predetermined fraction of the current flow in said conductor.

---

**2,391,272**
**CONVEYER**
**David Rose, Chicago, Ill.**
**Application September 14, 1942, Serial No. 458,185**
**7 Claims. (Cl. 193—35)**

1. In a gravity conveyer, opposed side members extending in parallel relationship, having outer faces that are free of projections, and inner faces provided therealong with rigidly positioned generally U-shaped support members having wedge-receiving openings extending through the upstanding legs thereof; each such support member co-operating with a support member of the other side member to form a support for a roller assembly, the roller assembly having outwardly ex-

tending shaft ends located within each co-operating pair of such U-shaped support members, and tapered means extending through and wedged in position within said wedge receiving openings



whereby said shaft ends and roller assemblies are rigidly but removably secured in place; the conveyer being free of anything that extends outwardly beyond the outer surfaces of said side member.

---

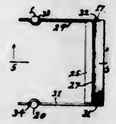
2,391,273

## DEFLECTING PLATE FOR CATHODE RAY TUBES

**Robert E. Rutherford, Rutherford, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware**

**Application May 29, 1942, Serial No. 444,962**

**2 Claims. (Cl. 250—159)**



1. A deflecting plate for a cathode ray tube having edges thereof bent at an angle thereto, said edges having grooves therein for receiving mounting members.

---

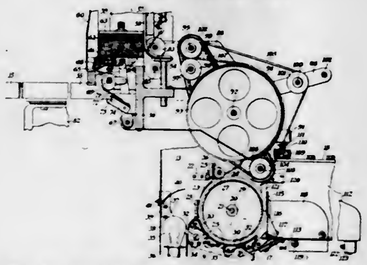
2,391,274

## CONTROL FOR RECORD HANDLING AND COPYING APPARATUS

**Alvin E. Schubert, Harvey P. Hintz, and Harlow J. Stettner, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application May 21, 1943, Serial No. 487,918**

**27 Claims. (Cl. 88—24)**



1. In an apparatus for handling and copying records, the combination with a copying machine for photographing records and comprising a camera adapted to contain a film, a record moving means for moving records past said camera, and a permanent drive connection from said record moving means to said camera and for continuously moving said film therethrough during continuous movement of said records by said record moving means, and a separate record handling means operably independent of said copying machine and for delivering records to said record moving means of the copying machine, of a sequential control means operative during starting and stopping of said apparatus to maintain operation of said camera, drive connection and record moving means of the copying machine for an interval before the starting and after the stopping of said record handling means.

---

2,391,275

## YIELD LINK

**Elgin L. Shaw, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

**Application March 4, 1943, Serial No. 477,979**

**10 Claims. (Cl. 287—1)**



1. A yield link between two parts comprising a yield member of tubular cross section, a rod tension member connected to one of said parts, a U-shaped tension member connected to the other one of said parts, and an abutment attached to each one of the free ends of said tension members and compressing said yield member, the rod tension member passing through the U-bolt abutment and the U-bolt tension member passing through the rod abutment.

---

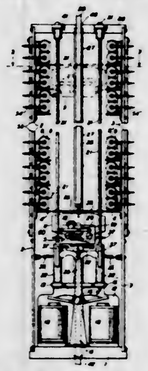
2,391,276

## SELECTOR SWITCH

**Vinton G. Sprague, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application August 25, 1943, Serial No. 499,889**

**5 Claims. (Cl. 179—27.53)**



1. A selector switch comprising two arrays of paired magnetic contacts, each array being disposed in staggered relation with respect to the other, a magnetic element disposed to move between said arrays for energizing those pairs of contacts in the one of said arrays which are traversed by the field of said magnetic element, and means for changing the position of said magnetic element to cause the field thereof to traverse a number of pairs of magnetic contacts in the other of said arrays whereby said contacts are energized.



---

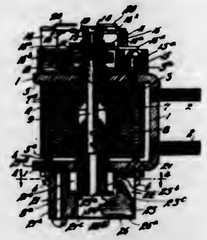
2,391,277

## ELECTROMAGNETIC DEVICE

**George M. Stapleton, Sea Cliff, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York**

**Application May 5, 1942, Serial No. 441,761**

**13 Claims. (Cl. 175—341)**



13. A shock proof device having a normally stationary member, a reciprocating plunger movable back and forth with respect to said member in a substantially straight line between two positions, and a locking element biased to inoperative position and automatically operable against its bias in response to the application of shock to said device to lock said plunger in each of said positions.

---

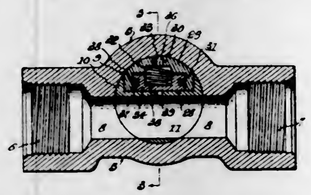
2,391,278

## HIGH PRESSURE SHUTOFF VALVE

**Donald A. Stark, Willoughby Township, Lake County, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio**

**Application December 30, 1943, Serial No. 516,270**

**9 Claims. (Cl. 251—102)**



1. A valve structure comprising a casing having a flow passage therethrough and a rotor bearing bore intersecting said passage in off center relation, a rotor mounted in said bore and having a flow passage therethrough disposed to one side of the axis of the rotor in position for being turnable into alignment with said passage, said rotor having a recess in the solid part thereof disposed to one side of its off center flow passage, a sealing unit removably and replaceably mounted in said recess and turnable with the rotor for engaging over and sealing the casing flow passage, and means for admitting pressure fluid from the shut off casing flow passage to engage with said sealing member and press it in tight sealing contact when turned to engage over the casing flow passage.

---

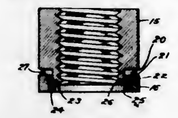
2,391,279

## LOCK NUT

**Lawson Tarwater and Wendell R. McKenzie, Los Angeles, Calif., assignors of ten per cent to Six Wheels, Inc., Los Angeles, Calif., a corporation of California**

**Application December 29, 1941, Serial No. 424,776**

**3 Claims. (Cl. 151—19)**



1. A lock nut comprising a threaded nut, one end of which terminates in a shoulder and a threaded collar, the periphery of the collar being circular and eccentric to the nut bore to form a cam surface; and a washer having a circular bore closely fitting and rotatably mounted on said collar, the washer having also an upstanding annular flange toward said shoulder which is adapted to be mashed down when the nut is threaded down on a bolt toward the work and against the washer.

---

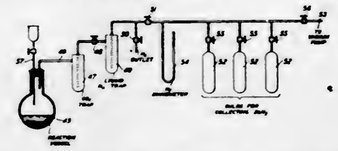
2,391,280

## METHOD OF FORMING LAYERS FOR ELECTRONIC CATHODES

**Gordon K. Teal, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application November 26, 1942, Serial No. 467,039**

**18 Claims. (Cl. 250—165)**



1. The method of making a light-sensitive cathode which comprises forming on a cathode carrier a deposit of antimony and cesium in intimate contact in an evacuated container, including introducing antimony hydride gas into said container, decomposing said gas, and forming on said cathode carrier a deposit of the antimony resulting from the decomposition.

---

2,391,281

## PLASTICIZING COPOLYMERS

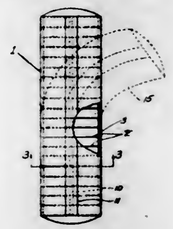
**Harry H. Thompson, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

**No Drawing. Application June 3, 1943, Serial No. 489,507**

**1 Claim. (Cl. 260—36)**

An uncured, rubber-like copolymer of butadiene and styrene which contains between about 2% and about 8% based on the weight of the copolymer of methyl alcohol as a plasticizer.

2,391,282
**STRUCTURE**
Ward T. Van Orman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application August 28, 1943, Serial No. 500,370
3 Claims. (Cl. 2—2.1)



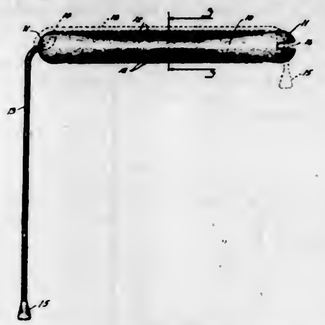
1. A generally tubular body formed of a flexible plastic material reinforced with a plurality of cords extending in a substantially circumferential direction to limit circumferential expansion of the tubular body and two flexible inextensible tension members extending longitudinally of said tubular body and arranged in substantially opposed relation to each other, said tension members being attached to said plastic material to limit longitudinal expansion of the tubular body but at the same time to permit the body when inflated to be bent in a plane substantially perpendicular to a plane passing through both of said tension members.

2,391,283
**PROCESS FOR THE HYDROGENATION OF BENZENE**
Arthur George Weber, Wilmington, and Merlin Dewey Peterson, Edgemoor Terrace, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 11, 1942, Serial No. 438,660
6 Claims. (Cl. 260—667)

5. In a process for the hydrogenation of an organic compound by means of an activated nickel-aluminum alloy catalyst, the steps which comprise activating a nickel-aluminum alloy containing 40 to 60% nickel and about 60 to 40% aluminum by the removal of from 5 to 30% of its initial aluminum content, carrying out the hydrogenation with said catalyst until it loses its activity, thereafter reactivating the catalyst in situ by removing a further portion of the aluminum and subsequently continuing the hydrogenation.

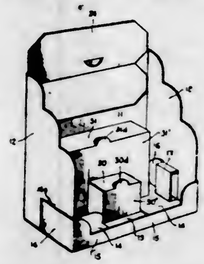
2,391,284
**HAIR CURLER**
Floyd F. Weiss, Denver, Colo.
Application February 5, 1945, Serial No. 576,241
2 Claims. (Cl. 132—35)

2. A hair curler comprising: an elongated body portion of generally circular cross section and of less diameter at its middle than at its ends; enlarged extremities on said body portion; a plurality of comb teeth arranged in a longitudinal row along said body portion; means for attaching said body portion to a hair curl; said row of teeth terminating in alignment in a substantially straight line parallel to the axis of said body portion so that the teeth at the middle of the curler will be of greater length than the teeth adjacent the enlarged extremities thereof, said straight



line being within the diameter of said enlarged ends.

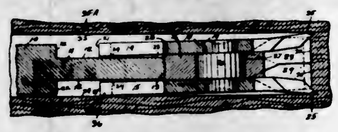
2,391,285
**DISPLAY CONTAINER AND BLANK THEREFOR**
Marshall I. Williamson, New York, N. Y., and Raymond Fink, Easthaven, Conn., assignors to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application January 25, 1943, Serial No. 473,434
5 Claims. (Cl. 206—45)



1. In a folding display container, the combination of side wall panels; a pair of bottom panels extending, respectively, from the lower ends of said side wall panels and folded inwardly of said display container angularly with respect to said side wall panels; a pair of substantially oppositely disposed foldable step formations associated, respectively, with said side wall panels and extending inwardly of said display container, said step formations being formed of panels which result from cutting the material of said side wall panels and of their said associated bottom panels, respectively; a back wall panel extending intermediate the said side wall panels and joining the latter together; a front wall panel; a bottom-forming panel extending intermediate the said back wall panel and the said front wall panels and joining them together; and a pair of locking panels extending from opposite ends of said front wall panel and folded backwardly against the outside faces of said side wall panels, respectively, said locking panels being provided with locking formations which extend within said display container adjacent said step formations and lock thereat serving to retain said display container in set-up condition.

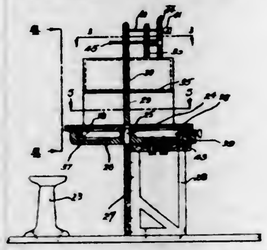


2,391,286
**FALLING SAW**
Charles Wolf, Portland, Oreg.
Application January 18, 1943, Serial No. 472,710
6 Claims. (Cl. 143—135)



2. In a falling saw, the combination of a longitudinal frame, around which frame is formed a narrow endless track, the outermost edge of which is transversely convex, a saw chain straddling said track whose width is substantially wider than the thickness of said frame and whose track engaging portion is transversely concave to fit said track, said track and chain having excessive lateral clearance between same adapted to permit the chain to rock laterally a limited amount on said track.

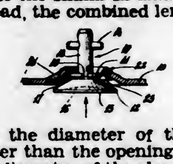
2,391,287
**FOOD DISPENSING SYSTEM AND APPARATUS**
James Anchor, Detroit, Mich., assignor to Ella Anchor, Detroit, Mich.
Application November 8, 1943, Serial No. 509,529
5 Claims. (Cl. 186—1)



1. In an apparatus of the class described, a vertically directed supporting structure; a supporting plate supported by said supporting structure in elevated relation; a table top mounted on said supporting plate and rotatable thereon; means on said table top for dividing said top into a pair of sections, the rotation of said table top effecting a presentation of either of said sections into position for use while removing the other section to a position concealed from the user; stationary wall-forming members projecting upwardly from said table top; a box-like structure open at one side mounted on said wall-forming members above the table top, one end of said box-like structure being positioned on one side of said wall-forming members and the other end on the other side.

2,391,288
**STUD MEMBER FOR QUICK DETACHABLE FASTENING DEVICES**
William H. Barlow, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application May 20, 1943, Serial No. 487,680
11 Claims. (Cl. 24—221)

1. A stud unit of a quickly detachable fastening device for releasably locking together a plurality of parts, one of which has a circular opening, in which opening the stud unit can be removably mounted and held against accidental removal while being capable of axial movement within the opening of said part, said stud unit consisting of a stud having an enlarged head incapable of passing through the opening in the part, a shank axially extending from said head and of smaller diameter than the opening in the part, said shank having aligned lateral projections of substantially equal length extending transversely of the shank in axially spaced relation to the head, the combined length of the pro-



jections plus the diameter of the shank being slightly greater than the opening diameter in the part and the diameter of the shank plus the axial length of one projection being less than the opening diameter in the part, and a ring-like contractable member somewhat smaller in diameter than the effective end to end length of the projections mounted on the shank and being axially movable between the enlarged head and the lateral projections and adapted to be passed through the opening in the part, and incapable of accidentally passing over either the projections or the enlarged head of the stud.

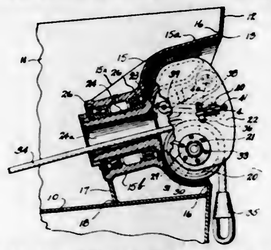
2,391,289
**BRIGHT COPPER PLATING**
John F. Beaver, Jr., Dayton, Ohio
No Drawing. Application September 15, 1941, Serial No. 410,853
2 Claims. (Cl. 204—52)

1. A bright copper plating bath comprising copper sulfate, sulfuric acid, a brightener in proportion of from 0.005 to 0.1 ounce per gallon, said brightener being selected from the group consisting of aryl and alkyl substitution products of thiourea and acetyl, hydrochloride, nitrate and metal salt derivatives of thiourea, a wetting agent in proportion of approximately 0.3 ounce per gallon, said wetting agent being selected from the group consisting of sodium salts of sulfated alcohols, sodium salts of sulfated alcohols which contain cetyl compounds, isopropyl naphthalene sulfate, sodium lauryl sulfate and a substance adapted to permit high current densities in proportion of approximately 0.25 ounce per gallon, said substance being selected from the group consisting of dextrin, sugar and sulfonated creosote.

2,391,290
**HAWSEPIPE**
Knute Berger, Seattle, Wash.
Application January 18, 1943, Serial No. 472,664
1 Claim. (Cl. 114—181)

In a ship, a bulwark having an outboard opening, a tubular housing open at its ends, located at the inside of the bulwark and having one open end fixed to the bulwark about the periphery of the said opening therein, a sheave housing contained coaxially within the fixed housing and having a tubular, reduced end portion serving as a mounting hub, bearing means in the inner end portion of the fixed housing containing the said mounting hub rotatably therein, a sheave wheel mounted in that end portion of the sheave housing opposite the hub portion and a cable extended through the said open ended housing and through said tubular hub and over said sheave wheel and guided by the later from the bulwark with clear-

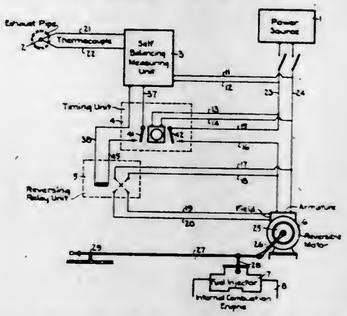
ance; said sheave wheel being mounted on an axis that is transverse to and below the axis of rotation of the sheave housing for self-alignment of the wheel with the direction of strain on



the cable as extended therefrom, and lugs on the fixed housing to be engaged by the sheave housing to limit its extent of rotation in opposite directions from a neutral position.

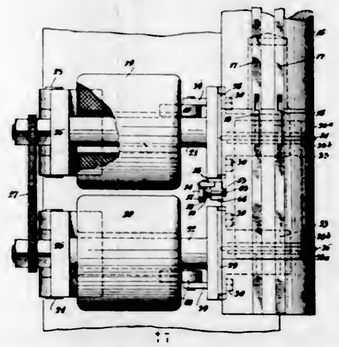
---

**2,391,291**
**FUEL CONTROL SYSTEM FOR INTERNAL-COMBUSTION ENGINES**
**Francis G. Bollo, Berkeley, and John R. Tomlinson, Walnut Creek, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**Application January 2, 1945, Serial No. 571,067**
**10 Claims. (Cl. 123—119)**




6. In combination with a spark ignition type engine having fuel metering means adapted to be selectively actuated in opposite directions to effect corresponding opposite changes in the fuel-air ratio of the mixture supplied to said engine, a system comprising constant frequency timing means adapted to actuate said fuel metering means to change the fuel-air ratio throughout a predetermined operative portion of each cycle of said timing means, relay means adapted to reverse the direction in which said fuel metering means are actuated, thermocouple means adapted to produce variations of potential in response to a change of the engine exhaust temperature, measuring bridge means adapted to translate said potential variations into current pulses, means for selectively transmitting current pulses responsive to temperature decreases to said relay means through said timing means during the operative portion of a cycle of said timing means, whereby said relay means are energized and the fuel metering means are actuated during the operative portion of said cycle in a direction opposite to that of their actuation during the preceding cycle.

**2,391,292**
**WELDING DEVICE**
**Julius Brenzinger, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a corporation of Connecticut**
**Application January 15, 1944, Serial No. 518,341**
**2 Claims. (Cl. 219—6)**



1. In a device for welding overlapped flanges of a hollow body of sheet-material, in which device a transformer, having primaries and secondaries, is employed as part of the welding means, and in which device said hollow body is advanced on a horn, means to establish an energizing circuit through said primaries including: in combination with said horn, having a recessed portion to be covered by said hollow body; of a circuit-closing element biased to occupy a non-operative position and to be moved to an operative position only by engagement with a hollow body covering said recessed portion of said horn; and means to periodically move said circuit-closing element toward and away from said recessed portion of said horn in timed relation to the presence of a hollow body covering the recessed portion aforesaid.

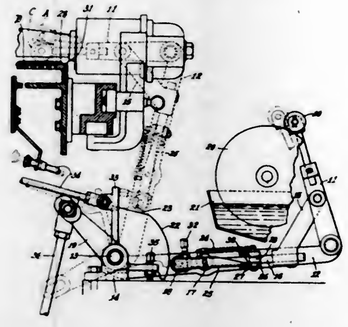
---

**2,391,293**
**TERPENE RESINS**
**William H. Carmody, Springfield, Ohio, assignor to Pennsylvania Industrial Chemical Corporation, Clairton, Pa., a corporation of Pennsylvania**
**No Drawing. Application August 4, 1942, Serial No. 453,557**
**3 Claims. (Cl. 260—80)**

1. The method of producing solid terpene resin from turpentine containing at least 85% of polymerizable terpene unsaturates, which comprises: bringing the turpentine into reactive contact with a Friedel-Crafts metallic halide polymerization catalyst added in increments while maintaining the temperature of the reaction mass below 35° C. during the primary polymerization stage, and after all of said catalyst has been added, effecting further polymerization in a secondary stage at temperature range exceeding 55° C. and not substantially exceeding 100° C.; the primary stage temperature below 35° C. being maintained over a period of time sufficient to polymerize substantially all of the original polymerizable unsaturates present, yet yielding in a sample fractionated at the completion of the primary stage 45% of residual resin having a melting point of 100° C., 35% of dimers and 5% of trimers.



**2,391,294**
**PASTER FOR CIGAR BINDERS AND THE LIKE**
**Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey**
**Application January 23, 1942, Serial No. 427,854**
**5 Claims. (Cl. 131—37)**

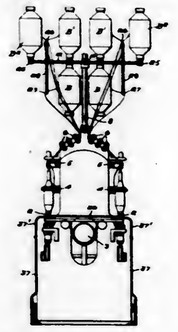


5. In a cigar machine having a bunch rolling table and a rolling apron, mechanism for applying adhesive to a binder located on said apron comprising, a single pivotally mounted arm traveling to and fro between paste receiving and paste applying positions, a second arm pivotally connected to said first named arm, a paste applier supported on said second arm, means on said first named arm for holding said second arm in a predetermined position, an immovable support, a stationary abutment movably mounted on said support and extending across the path of said means to engage said means as said first named arm approaches paste applying position and release said second arm to permit said paste applier, when moved to a position above the binder on the rolling apron, to descend upon the binder and apply paste thereto, a rigid member connected to said abutment, a device for moving said member to displace said abutment out of the path of said means, and mechanism for raising said paste applier out of engagement with said binder while said first named arm is moving toward paste receiving position to thereby prevent the application of paste to the apron.

---

**2,391,295**
**SPINNING FRAME CREEL**
**Louis M. Cotchett, Hingham, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine**
**Application July 16, 1941, Serial No. 402,581**
**5 Claims. (Cl. 242—131)**

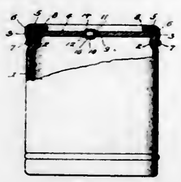
1. A creel structure for spinning frames comprising a supporting frame and fittings thereon serving to support two central lower rows only of roving bobbins closely adjacent to each other and at opposite sides of the middle longitudinal plane of the creel, in substantially free positions so that unimpeded access is afforded to them from opposite sides of the creel, said creel having parts serving to support two upper central rows of bobbins above said lower rows and similarly located with reference to said plane, said creel also including means for supporting additional upper rows of bobbins spaced outwardly from said central upper rows, the supports for certain of the bobbins in said outermost rows being spaced farther apart than those in the central



rows so as to afford free access to all of the bobbins in said upper central rows.

---

**2,391,296**
**CLOSURE MEANS FOR FIBER CONTAINERS**
**John Coyle, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application December 31, 1943, Serial No. 516,442**
**2 Claims. (Cl. 229—43)**



1. A fiber container having an end closure disk provided with an opening therethrough, an eyelet secured to said disk in this opening, a cup-shaped plug adapted to be placed in said eyelet for closing and sealing the container, said plug having a flange at its outer end for limiting the extent to which the plug is inserted in the eyelet, said plug being dimensioned so as to project into the container beyond the eyelet, and means disposed within said plug for expanding the inner end portion of the plug projecting beyond the eyelet to a diameter larger than the diameter of the eyelet for firmly attaching the plug to the eyelet and sealing the container.

---

**2,391,297**
**TARTAR EMETIC MANUFACTURE**
**Newell A. Davies, Burlingame, Calif., assignor to Stauffer Chemical Company, a corporation of California**
**No Drawing. Application July 10, 1944, Serial No. 544,335**
**10 Claims. (Cl. 260—446)**

1. In the manufacture of tartar emetic by reacting an aqueous solution of potassium bitartrate with solid antimony oxide, the step of heating the mixture in the presence of sufficient oxalic acid to maintain said solution at a pH between about pH 1 and about pH 3 during the reaction.

2,391,298
**DRIVE FASTENER**
Frank L. Davis, College Point, N. Y.
Application April 25, 1945, Serial No. 590,136
5 Claims. (Cl. 85—5)



1. A spring holding drive fastener comprising a strip of spring sheet metal having an intermediate arched head portion, narrow portions connected with opposite edges of said head portion and bent inwardly beneath the same and wider pointed end portions connected with said narrow portions, said wider end portions being oppositely concaved in cross section and brought together into substantially parallel edge-to-edge relation forming a substantially rigid, hollow, pointed, cylindrical drive shank and integral spring ratchet lugs partially severed and struck outwardly from said hollow shank forming portions.

---

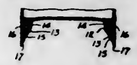
2,391,299
**HERBICIDE**
Colton De Laney, Berkeley, Calif., assignor to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware
No Drawing. Application April 22, 1941, Serial No. 389,748
6 Claims. (Cl. 167—45)

6. The method of treating soil to kill vegetation and prevent new growth therein, comprising wetting such soil with a liquid comprising:

| | Parts by weight |
|---|---|
| Arsenic trioxide $As_2O_3$ | At least 8 |
| Sodium hydroxide NaOH | At least 2 |
| Water glass, commercial | 0.4 to 4.0 |
| Water to make | 100 |

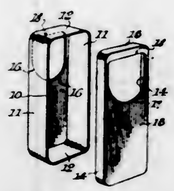
---

2,391,300
**APPARATUS FOR REPAIRING PNEUMATIC TIRE CASINGS**
Joseph J. Dettling, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 2, 1943, Serial No. 493,184
1 Claim. (Cl. 18—18)



A rim for supporting a pneumatic tire for repair vulcanization having side flanges that have outwardly curved outer portions, said rim being collapsible and composed of a series of segments hingedly connected end to end, one of the segments of said rim being a mold closing segment and having inner filler strips welded to the outer faces of its flanges inwardly of the outwardly curved portions thereof, and outer filler strips welded to the outer faces of said curved portions of the flanges, said filler strips having flat faces flush with the edges of said flanges, and flat arcuate facing plates overlying the outer faces of said strips and the outer edges of said flanges and welded thereto.

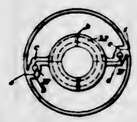
2,391,301
**DISPENSING CONTAINER FOR STERILE COMPRESSES**
Morton McI. Dukehart, Jr., New Rochelle, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application September 4, 1942, Serial No. 457,352
3 Claims. (Cl. 206—56)



1. A compress or like flexible element dispensing container comprising an elongated rectangular casing having wall portions defining a compress element pack enclosing chamber, two of said wall portions opposing each other and intervening flat portions of enclosed compress elements in parallel relation, and having registering openings therein through one of which openings pressure can be hand applied against the pack of enclosed compresses to force said pack toward the other opening and one end portion of one compress of the pack out through said other opening to be readily grasped and withdrawn therethrough, said openings being disposed adjacent but spaced from one end of the casing thereby to define compress element confining shoulders of short length at the adjacent casing end.

---

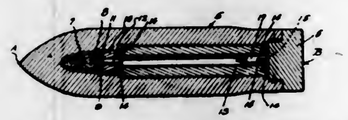
2,391,302
**MEANS FOR FIXING PULLEYS AND THE LIKE TO SHAFTS**
William James Evans, Bulwell, Nottingham, England
Application April 10, 1943, Serial No. 482,643
In Great Britain January 10, 1942
3 Claims. (Cl. 287—52.03)



1. A readily mountable and demountable pulley, shaft coupling or like device, comprising a member having an eccentric element, and a plain bore for the reception of a shaft, said member being split longitudinally into parts having opposed complemental faces within the periphery of the member; a second member having a bore for the shaft, and an eccentric element mating with said first named eccentric element, whereby relative rotation between the two members tends to produce misalinement of their respective bores which firmly secures the device to the shaft; and means co-acting with said complemental faces of the first member for preventing separating movement of the parts of such member transversely of the shaft.



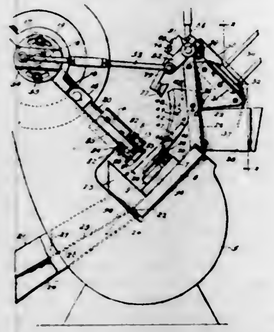
2,391,303
**PROJECTILE**
Patrick Hamilton Field, Washington, D. C., assignor, by direct and mesne assignments, of one per cent to Stanley F. Clark, West New Brighton, N. Y., and ninety-nine per cent to Margaret Kinsler Liebert, Washington, D. C.
Application October 22, 1941, Serial No. 416,116
1 Claim. (Cl. 102—56)



In a projectile, a metallic body having a bore a portion of which provides an explosive chamber, an explosive in said chamber, a plug threaded in the bore and carrying a detonator located adjacent the explosive, a sleeve threaded in the bore against the plug, a hammer slidable in the sleeve for actuating the detonator by impact of the body against a target, fragile means normally sustaining the hammer against movement in the sleeve and shearable by said impact, and a closure plug threaded in the bore against the sleeve and providing a butt end to said body.

---

2,391,304
**BLANK FEEDING APPARATUS**
Henry A. Fink, Pelham Manor, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application November 24, 1944, Serial No. 565,026
12 Claims. (Cl. 164—88)



1. In apparatus of the character described, a blank stack, a suction cup movable to and from said stack to withdraw blanks one by one therefrom and swingingly actuated to effect a centrifugal force on any second blank inadvertently withdrawn, a collector trough and a delivery means arranged in spaced relation under the path of movement of said cup so that during movement of the cup a blank attached to the cup by suction and withdrawn from the stack will be moved over the trough to a position above the delivery means and any second blank withdrawn from the stack with said suction attached blank will fall by combined action of gravity and centrifugal force into said trough before reaching the position of said delivery means, and suction control means rendering the cup active to attach itself to blanks at the stack and while moving from the stack to the delivery means and for relieving the suction over the delivery means to cause the suction attached blank to fall by action of gravity onto said delivery means.

---

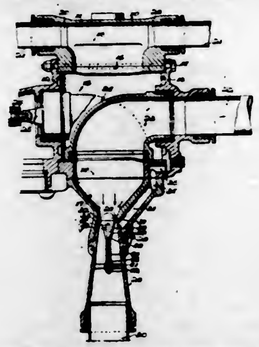
2,391,305
**PLASTIC EYE**
Joseph S. Galeski, Richmond, Va.
Application April 18, 1944, Serial No. 531,611
2 Claims. (Cl. 3—13)



1. An artificial eye comprising a laminated concavo-convexo body having a tinted and veined opaque lower layer and a transparent glossy upper layer, an iris part extending entirely through the body, a pupil part having a cylindrical sheath of a lighter shade than the pupil, said sheathed pupil extending entirely through the iris part, said body, iris and sheathed pupil parts merged into a homogenous mass, the upper surface of the iris and pupil parts formed planar with a plano-convexo transparent cornea part coextensive with and secured on said planar surface of the iris.

---

2,391,306
**FLOW REGULATING SYSTEM**
David Gregg, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 18, 1942, Serial No. 469,490
11 Claims. (Cl. 230—112)



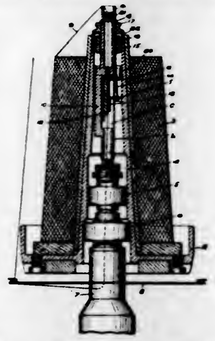
1. A suction pressure regulating mechanism comprising a Venturi tube open to varying dynamic pressures, a suction line to be regulated opening into the throat of said Venturi tube, a streamlined member mounted within said Venturi tube adjacent said throat, supporting means mounted within said Venturi tube carrying said streamlined member, and spring means positioned on said supporting means and urging said streamlined member toward the head of dynamic pressure through said Venturi tube.

---

2,391,307
**YARN TENSIONING DEVICE**
Eugene C. Gwaltney, Biddeford, and Henry R. Marsh, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application January 26, 1944, Serial No. 519,717
11 Claims. (Cl. 242—149)

1. A yarn tension device comprising an elongated body provided with a tubular yarn guiding shank and with a seat, a pressure plate lo-

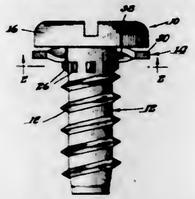
cated in said seat in position to bear on the yarn, a leaf spring, one end portion of which bears on said plate and presses it against the yarn, and a



nut threaded on said shank and bearing on said spring whereby adjustment of said nut changes the active length of the spring.

---

2,391,308
**FASTENER UNIT**
**Walter M. Hanneman, Oak Park, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**
Application May 17, 1941, Serial No. 393,861
3 Claims. (Cl. 151—32)

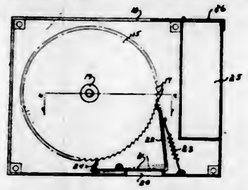


2. A fastener unit including a headed screw element having a relatively coarse pitch thread terminating in the vicinity of the clamping side of the screw head, a washer encircling the screw element in the vicinity of the head thereof immediately adjacent the termination of said thread, said thread being larger in external diameter than the inner diameter of the washer, and means including a plurality of protuberances formed integral with the screw element and continuing from the thread terminal at the free side of the washer member for engaging the inner margin of said washer member to prevent canting of the washer member and the consequent unscrewing thereof.

---

2,391,309
**REGISTERING DEVICE**
**Bernard L. Harriott, Lake City, Iowa**
Application March 19, 1942, Serial No. 435,373
3 Claims. (Cl. 235—122)

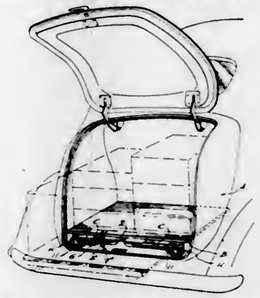
1. In a device of the class described, a housing, an aperture in said housing, a disk element rotatably mounted in said housing and having indicia thereon capable of registering with said aperture at times, a plurality of ratchet teeth on the outer peripheral edge of said disk, a finger hole in the bottom portion of said housing, a trip member rotatably mounted in said housing and normally covering said finger hole, an operating pawl on said trip member for engaging said ratchet teeth on said disk and rotating said disk when said trip member is manually operated, and a means for yieldingly returning said trip member



to a closed position and move said actuating pawl into engagement with the next succeeding ratchet tooth, the operating pawl being in the form of a right angled member with a ratchet on one arm at an end above the trip member and a ratchet stop on the other arm.

---

2,391,310
**AUTOMOBILE TRUNK LOADING DEVICE**
**Leo B. Heller, Chicago, Ill.**
Application March 7, 1945, Serial No. 581,470
3 Claims. (Cl. 214—65)



1. The improvement in a luggage compartment which comprises a slidable platform mounted within said compartment and provided with a channel track attached to the under side of said platform adjacent and parallel to the front edge of said platform, said platform supported on rollers engaged within said track, each slidably mounted on an arm supported by a roller contacting the base of said compartment, each of said arms pivotally supported and attached to the base of said compartment adjacent right and left edges respectively of said base to permit forward and rearward motion of said platform, said platform supported horizontally by a roller engaged within a channel track attached to the under side of said platform at right angles to the first mentioned track, said roller being supported by a rigid arm attached to the base of said compartment.

---

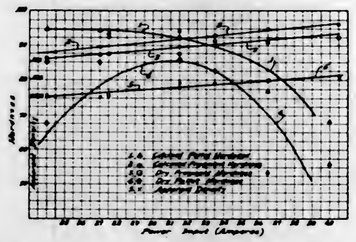
2,391,311
**LUBRICATING COMPOSITION**
**William Helmore, Kingston Hill, England, assignor to C. C. Wakefield & Company Limited, Beaconsfield, England, a British company**
No Drawing. Application June 23, 1942, Serial No. 448,153. In Great Britain April 4, 1941
4 Claims. (Cl. 252—37.2)

2. A lubricating composition substantially noncorrosive to bearing materials of the composite metal type including cadmium-nickel bearing materials even at temperatures of the order of 170° C. and having high film-rupture strength at such temperatures, which composition comprises, a lubricating oil base having incorporated therein as addition materials, at least 0.1% tin oleate, at least 0.5% of phosphate selected from the group consisting of tricresyl phosphate, triphenyl phosphate and trinaphthyl phosphate and at least 0.1% of phosphite selected from the group consisting of tributyl phosphite and triamyl phosphite, all by weight based on the weight of the lubricating oil base, the total amount of said addition materials being not greater than 10%.



---

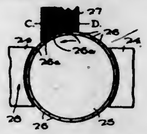
2,391,312
**CATALYST AND METHOD FOR FORMING CATALYSTS**
**Frederick J. Ewing, Pasadena, Robert B. Secor, South Gate, and John G. Warner, East Los Angeles, Calif., assignors to Filtrol Corporation, Los Angeles, Calif., a corporation of Delaware**
Application February 1, 1943, Serial No. 474,406
2 Claims. (Cl. 252—235)



1. A method of producing pelleted acid activated sub-bentonite montmorillonite clay which comprises mixing said clay with water, adjusting the quantity of water so that the mixture contains between about 44 and about 46% V. M., mechanically working said mixture and extruding said worked mixture through an extruder to form pellets, cutting off said pellets and drying said pellets to produce pellets which when dried to a V. M. of 15 to 20% have a dry hardness of better than about 80 and when calcined to a temperature of 1000 to 1100° have a calcined hardness of better than about 80.

---

2,391,313
**PYROMAGNETIC MOTOR**
**James Arthur Hindle, Punjab, British India**
Application December 13, 1944, Serial No. 568,044
In British India November 23, 1943
9 Claims. (Cl. 171—125)



1. In an apparatus for the thermo-dynamic conversion of energy including a magnet having opposed poles, a rotor mounted for rotation between said opposed poles and in the magnetic field produced by said magnet, said rotor being formed at least in part of magnetic material capable of being rendered non-magnetic on heating to above a predetermined temperature and of recovering its magnetic properties upon cooling and means for directing heat to be converted into dynamic energy upon a part of said rotor to heat said part above said predetermined temperature, whereby said part of the rotor is rendered non-magnetic and the rotor thereby is caused to rotate in the magnetic field under the influence of the magnetic lines of flux effective thereon; the improvement in which the rotor is formed of a core of magnetic material and an outer cover of a nickel-iron alloy having different properties from that of the core.

---

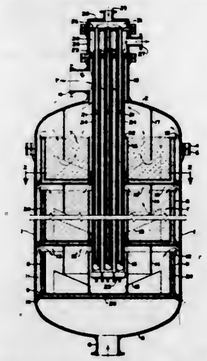
2,391,314
**TENSION FOR NARROW WARE SHUTTLES**
**Elbridge R. Holmes, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
Application July 15, 1944, Serial No. 545,120
5 Claims. (Cl. 139—136)



1. In brake mechanism for a quill carrying a weft supply between flanges thereof and rotatable on a shuttle as the latter approaches the end of a picking stroke thereof while moving in a shuttle block on the lay of a narrow ware loom, a brake pivoted on the shuttle and having an axis substantially parallel to the axis of the quill and having braking parts for engagement with the flanges of the quill and having an operating part, and means fixed on the lay engaging the operating part and causing the braking parts to move into braking relation with the flanges when the shuttle approaches the end of the picking stroke thereof.

---

2,391,315
**REACTOR**
**William E. Hulsberg, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
Application October 20, 1941, Serial No. 415,715
2 Claims. (Cl. 23—288)



1. A reactor comprising a cylindrical shell, a plurality of annular trays disposed in spaced superimposed relation within said shell and spaced from the inner wall of the shell, the central openings of the annular trays being in vertical alignment to form a passageway in the shell, closure means for one end of said passageway

within the shell, a skirt-like baffle depending from an upper one of said trays into the next adjacent lower tray and terminating short of the bottom of said lower tray, heat exchange tubes disposed in said passageway, a fluid inlet adjacent one end of the shell and a fluid outlet adjacent the opposite end of the shell.

---

2,391,316

**WRAPPING MACHINE SAFETY MECHANISM**

Thormod Jensen, Laureiton, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Original application June 5, 1941, Serial No. 396,713, now Patent No. 2,304,048, dated December 1, 1942. Divided and this application September 19, 1942, Serial No. 458,971

2 Claims. (Cl. 198—24)



1. Infeed mechanism for a wrapping machine comprising an intermittently moving conveyor, a plurality of sets of spaced article engaging lugs carried by and extending upwardly from said conveyor, said lugs having a cross sectional area less than articles engaged and advanced thereby, a pusher movably transverse of said conveyor between said lugs to eject articles from between said lugs, a stop plate provided with an opening through which said lugs pass, said stop plate being constructed and arranged to engage each leading end of an article after the lug engaging said leading end of said article passes into said opening to limit the forward movement of said article and guide said article during its ejection from between said lugs, means for pivotally mounting said plate for upward swinging movement whenever an article is so improperly arranged relative to said lugs on said conveyor as to obstruct the movement of the leading lug of the set into said opening, and means for yieldingly urging said plate towards articles advanced by said conveyor into article stopping position.

---

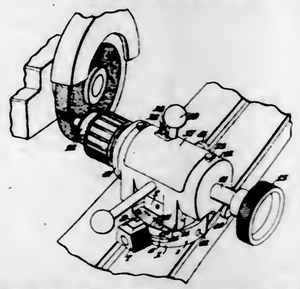
2,391,317

**GRINDING FIXTURE**

Charles H. Klein, Cincinnati, Ohio, assignor to Progress Lithographing Company, Reading, Ohio, a corporation of Ohio

Application September 4, 1943, Serial No. 501,255

5 Claims. (Cl. 51—101)



3. A tool grinding fixture, comprising a base having a member presenting a guiding surface, a head pivotally mounted on said base and biased toward said guide, a shaft mounted in said head for axial and rotatable movements with respect thereto, a series of cams carried by said shaft for selective engagement with said guiding surface, the said cams being arranged to effect shifting movement of the head a number of times corresponding to the number of lobes thereon during each cycle of rotation of said shaft, and tool holding means carried by said shaft in axial alignment therewith.

---

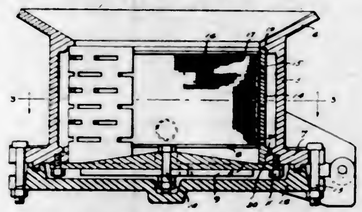
2,391,318

**OIL FILTER**

Robert Y. Kopf, Warren, Pa., assignor of one-half to Hammond Iron Works, Warren, Pa., and one-half to Katherine Cox Fulton and Hazel Fulton Pierce, both of Titusville, Pa.

Application January 20, 1945, Serial No. 573,659

1 Claim. (Cl. 210—154)



In a filter, an annular housing having an open top forming a liquid inlet, and a side liquid outlet at the bottom thereof, an annular filter ring in said housing arranged concentrically therein and spaced therefrom for filtering liquid passing from the inlet to said outlet, an internal annular shoulder extending around the top end of said housing and against which the upper end of the ring is seated, inwardly projecting circumferentially spaced lugs on the bottom end of the housing, outwardly projecting circumferentially spaced lugs on the bottom end of the ring seating on the first named lugs, and means to close the bottom end of said housing, the first and second named lugs being spaced apart to provide for the second named lugs passing between the first named lugs whereby said ring is adapted to be inserted upwardly into said housing for turning to seat the second named lugs on those first named.

---

2,391,319

**CONTAINER VACUUMIZING AND CLOSING MACHINE**

Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

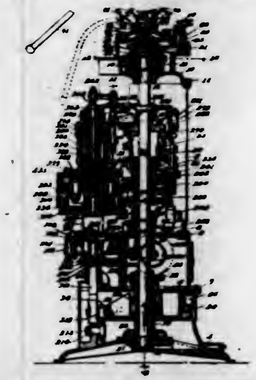
Application August 14, 1941, Serial No. 406,899

9 Claims. (Cl. 226—82.4)

1. In a machine of the character described, a casing open at its bottom and forming a filled container vacuumizing chamber therein, container sealing means in said chamber including a chuck and seaming mechanism, a container supporting pad, a plunger on which said pad is mounted vertically reciprocable for lifting filled containers into and lowering vacuumized and sealed containers from said chamber, means for feeding filled containers onto said pad, a plate partially closing the bottom of the chamber and having a central opening therein for passing containers being lifted or lowered relative to said casing, yieldable means disposed about said central opening and engageable in embracing contact with a container lifted into the chamber for sealing the chamber against ingress of air, means operable in timed relation to the lifting



of said pad for causing said chamber sealing means to yieldably embrace a container lifted by said pad, means for effecting evacuation of the sealed chamber and the container therein, means for operating the container sealing means for sealing the evacuated container in the sealed chamber, and a rotary grooved cam having a groove portion effective for first lifting the pad



a distance to present the container in the vacuumizing chamber for being vacuumized and another groove portion effective for thereafter lifting the container an additional distance while still embraced by said yieldable means for engaging it with the chuck, said yieldable container embracing means being free to yield upwardly as the container is chucked without breaking the seal about said container.

---

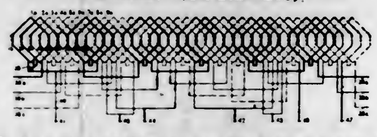
2,391,320

**MOTOR CONTROL SYSTEM**

Jacob Daniel Lewis, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Original application July 7, 1943, Serial No. 493,792. Divided and this application July 14, 1944, Serial No. 544,863

4 Claims. (Cl. 172—276)



4. A control system for an electric motor adapted for operation as a polyphase alternating current motor or as a direct current motor and having a field winding so wound and adapted that, when certain points thereon are connected to a source of direct current, a stationary field of a certain number of pairs of poles is provided and, when certain points thereon are connected to a source of polyphase alternating current a rotating field of a different number of pairs of poles is provided and having an armature wound for the number of pairs of field poles provided when the field winding is connected for direct current operation and provided with a commutator, brushes and equalizing conductors connecting points on the armature winding spaced 360 electrical degrees under stationary field excitation, said control system comprising; a source of polyphase alternating current; means for connecting said field winding to said alternating current source to cause operation of said motor at a fast speed determined by said number of pairs of poles of rotating field produced thereby; means for controlling the phase rotation of the applied voltage to control the direction of rotation of the motor on fast speed operation; a polyphase rectifier connected to said alternating current source; a direct current generator of a certain voltage, said generator having a field winding; a source of direct current for said generator field winding; means for slowing down the motor upon disconnection of said motor field winding from said alternating current source; means for connecting said motor field winding across said rectifier to cause direct current to be supplied thereto, for connecting said brushes across said generator and for connecting said generator field winding to its direct current source to cause operation of said motor as a direct current motor, the value of the current supplied to said motor field winding, the value of current supplied to the generator field winding and the value of the voltage applied to motor armature being such as to cause operation of the motor at a slow speed; and means for controlling the polarity of excitation of said generator field winding to control the direction of rotation of said motor on slow speed operation.

---

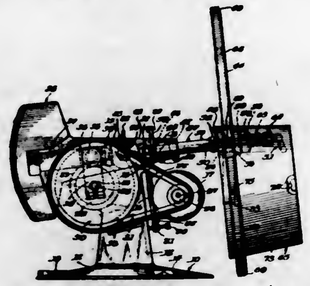
2,391,321

**COIL SUPPORTING REEL**

Frederick M. Littell, Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois

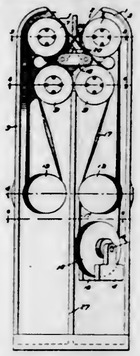
Application April 13, 1944, Serial No. 530,771

12 Claims. (Cl. 242—85)



1. In a reel of the character described, a standard having a supporting base, a counterweight pivoted to the standard so as to have movement about a horizontal axis, whereby the counterweight is supported by the standard and normally depends vertically downward from the pivot axis, a spindle shaft fixed to the counter-weight to normally extend upward in a vertical direction, a spindle hub mounted for rotation on the spindle shaft whereby the axis of rotation for the hub is normal to the pivot axis for the spindle shaft, a plurality of arms extending radially from the hub and forming the base of the reel, a drum supported by the arms, an electric motor of the reversing type supported by the standard, speed reducing means also supported by the standard and having driving connection with the motor, a crank arm actuated by the speed reducing means and operatively connecting with the counterweight to cause movement of the counterweight and tilting of the spindle shaft upon rotation of the crank arm, and switch means for controlling operation of the motor.

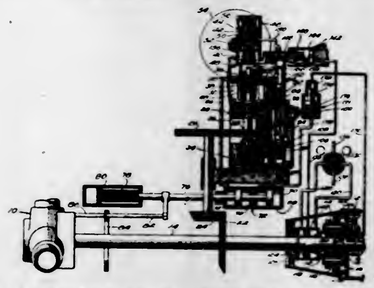
**2,391,322**
**BELT SANDER**
**Hjalmar T. Lundquist, Kennett Square, Pa.**
**Application October 30, 1943, Serial No. 508,322**
**8 Claims. (Cl. 51—135)**



5. Sander comprising a frame, a plurality of pulleys mounted thereon including a driving pulley and an endless belt having its outer face provided with an abrasive surface, said belt arranged on said pulleys and said pulleys so arranged as to present a plurality of reaches of said belt forming a work trough the sides of which converge, said sides each formed by reaches of said belt and all of said side forming reaches of said belt arranged to travel toward the bottom of the trough.

---

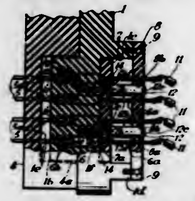
**2,391,323**
**POWER PLANT CONTROL MEANS**
**Erle Martin, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application February 9, 1942, Serial No. 430,095**
**18 Claims. (Cl. 170—135.6)**



1. In combination with an aircraft power plant including a controllable pitch propeller, an engine having a predetermined range of torque values, and a speed governor regulating the propeller pitch, governor speed setting means having a limited range defined by a high speed position and a low speed position, engine torque responsive means operatively connected with said speed setting means to determine the position of said setting means, said speed setting means being movable through its entire range by a torque change less than said torque range and said speed setting means and said torque responsive means constructed and arranged to maintain said setting means at its high speed position for all torque values above a predetermined amount in the upper portion of said torque range and to maintain said setting means at its low speed position for all torque values below a predetermined amount in the lower portion of said torque range.

---

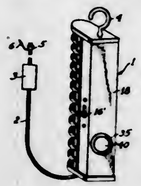
**2,391,324**
**MOUNTING PLATE FOR PLUG-IN DEVICES**
**Paul N. Martin, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania**
**Application September 9, 1944, Serial No. 553,384**
**9 Claims. (Cl. 200—51)**



1. In combination, a mounting plate having a plurality of recesses which communicate at one end with slots formed in one side of the plate and at the other end with a cavity formed in the other side of the plate, connectors disposed in said recesses for making contact with the plug portions of contact members inserted into said recesses through said slots, said connectors being movable within said recesses between positions in which they engage said plug portions and other positions in which they are disengaged from said plug portions, and clamping means disposed in said cavity for movement between two positions in one of which all of said connectors are secured in their contact making positions and in the other of which individual movement of said connectors to their contact disengaging positions is permitted.

---

**2,391,325**
**LIGHTING DEVICE**
**René G. Maurette, Beverly, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**
**Application March 29, 1943, Serial No. 481,039**
**2 Claims. (Cl. 240—11.4)**

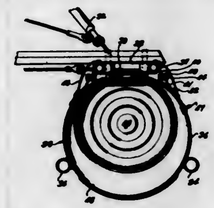


1. A portable fluorescent lamp device comprising: a base plate with edge flanges; a channel-shaped base cover with its open portion facing said base cover and its edges in mechanical contact with said flanges; lampholders extending from each end of said base cover; a grill extending in an arch over said lampholders from one longitudinal edge of the top portion of said channel-like base cover to the other; end caps at each end of said base cover to enclose the ends of said grill and base cover and having tongues to engage said base plate, hook-like means for temporarily securing the lamp device in operating position and a flexible cable for conduction power to the lamp.



---

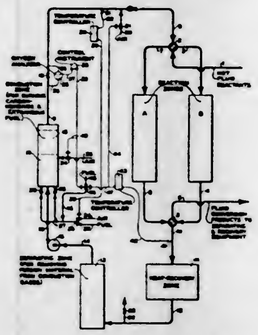
**2,391,326**
**PNEUMATIC FLOTATION GEAR**
**Ashley C. McKinley, Huntington, N. Y., assignor to McKinley Pneumatic Floats, Inc., Garden City, Long Island, N. Y., a corporation of New York**
**Application December 12, 1940, Serial No. 369,879**
**21 Claims. (Cl. 114—66.5)**



1. A float for aircraft or the like that comprises a non-rigid inflatable bag having a non-rigid lower surface, means to support an aircraft or the like from the upper side of said bag and means fixed to said bag and extending into the path of the water that will be expelled sideways from under said bag when in motion on water, said means being so placed that the force of said water thereon will tend to lift said bag and stretch the bottom thereof into a flat surface.

---

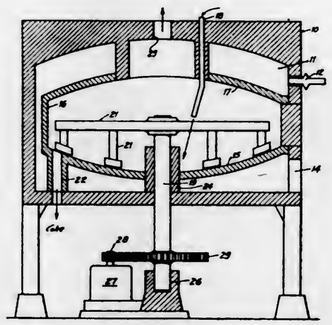
**2,391,327**
**REGENERATION OF SOLID CONTACT MATERIAL**
**Lev A. Mekler, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application July 22, 1942, Serial No. 451,967**
**5 Claims. (Cl. 252—242)**



3. In the regeneration of a mass of solid contact material by contacting the same with a stream of hot combustion gases containing a regulated minor amount of air, to burn from the mass deleterious combustible materials which have been previously deposited therein, wherein regenerating gases discharged from said mass are recycled thereto through a cooling zone, wherein useful heat is recovered from the gases, and thereafter through a combustion zone, wherein carbon monoxide components of the gases are converted to carbon dioxide and wherein a fuel-air mixture supplied thereto from an external source is burned and the resulting hot combustion gases commingled with the circulating stream, the improved method of substantially eliminating carbon monoxide from and maintaining a substantially constant temperature and free oxygen content in the stream of regenerating gases supplied to the contact mass during a major portion of the regenerating operation, which comprises, controlling the quantity of said fuel-air mixture in response and in inverse relation to variations in the temperature of the gases being supplied from the combustion zone to the contact mass, while maintaining in said mixture a substantially constant air-fuel ratio somewhat less than that required for complete combustion of the fuel, maintaining the free oxygen concentration in the gases discharged from the combustion zone between a predetermined minimum and maximum value by admitting additional air to the combustion zone when the minimum value is reached and discontinuing said supply of additional air when the maximum value is reached, and commingling another additional quantity of air with the regenerating gases subsequent to their discharge from the combustion zone and prior to their contact with said mass in quantities controlled in response and in inverse relation to minor variations in the temperature prevailing in said mass.

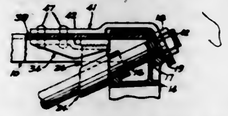
---

**2,391,328**
**PRODUCTION OF SULPHUR DIOXIDE**
**Albert C. Mohr, Arcadia, Calif., assignor to Stauffer Chemical Company, a corporation of California**
**Application February 1, 1943, Serial No. 474,345**
**1 Claim. (Cl. 23—178)**



A process for the continuous recovery of $SO_2$ from a sulphuric acid sludge containing hydrocarbonaceous material, which comprises the steps of first continuously introducing said sludge into an indirectly heated distillation zone maintained at a heat sufficient to decompose the acid in said sludge and form a gas rich in $SO_2$, continuously agitating said sludge, continuously moving said sludge from the interior of the mass to the outer fringes of the mass by a pushing, spiral agitation, and continuously discharging a substantially dry and acid-free carbonaceous residue from the outer fringes of said mass.

2,391,329
**BRAKE HEAD RETAINING MECHANISM FOR BRAKE BEAMS**
Carl R. Moline, Homewood, Ill., assignor to Allied Railway Equipment Company, a corporation of Illinois
Application May 2, 1944, Serial No. 533,695
9 Claims. (Cl. 188—222)



1. In a brake beam, compression and tension members, a strut between the intermediate portions of said members, sleeve heads engaging the outer ends of said members, sleeve head retaining members for holding said sleeve heads in position on the ends of the brake beam, said last named members each comprising a body portion having an opening extending diagonally therethrough and having a laterally extending serrated attaching portion, an anchor member having bifurcations extending to opposite side of said attaching portion and having serrations adjustably engaging the serrations on said attaching portion, and means for rigidly connecting said anchor member to said compression member.

2,391,330
**SYNTHETIC RUBBER COMPOSITIONS**
Rupert C. Morris, Berkeley, and Edward C. Shokal, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 28, 1944, Serial No. 524,310
14 Claims. (Cl. 260—36)

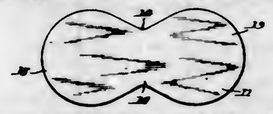
13. A composition of matter consisting of a rubber-like copolymer of butadiene-1,3 with acrylonitrile, and as a softening agent therefor methallyl 3-sulfolanyl ether.

2,391,331
**STABILIZATION OF SULPHOLANES**
Rupert C. Morris, Berkeley, and Alva V. Snider, Richmond, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 30, 1944, Serial No. 552,014
20 Claims. (Cl. 260—329)

19. As a composition of matter a mixture comprising at least one alkyl substituted sulpholane and an amount of a compound having the general formula $R_3N$ wherein R is a member of the group consisting of hydrogen and a hydrocarbon radical sufficient to stabilize the sulpholane present in said mixture.

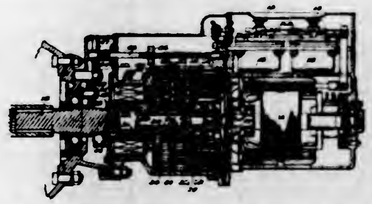
2,391,332
**METHOD OF MAKING PIPE FITTINGS**
Alfred Mueller, Berwyn, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 11, 1943, Serial No. 505,883
5 Claims. (Cl. 29—157)

1. The method of forming from sheet material of substantially rounded contour when viewed in plan a seamless pipe fitting having a plurality of pipe connecting portions which consists in drawing the sheet material to first form a blind pipe connecting portion and a flange portion, said flange portion being substantially U-shaped as viewed in plan or end elevation and having side edges sloping down at an angle from one end



toward an opposite end, then drawing said flange portion from its U-shape to a circular shape as viewed in end elevation to form another pipe connecting portion, then finishing the ends of the pipe connecting portions.

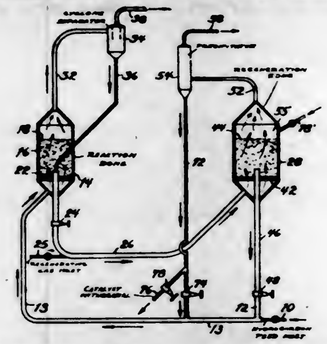
2,391,333
**ACTUATING UNIT FOR RETRACTABLE LANDING GEAR**
Romeo M. Nardone, Teaneck, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 28, 1944, Serial No. 520,122
2 Claims. (Cl. 192—.02)



1. An actuating unit for an air-craft remotely controlled element, comprising a motor including a drive shaft and a pair of field coils for rotating said shaft in opposite directions, an output shaft, complemental jaw clutch elements between said shafts, said clutch elements being adapted to be engaged to establish the driving relation between said shafts and disengaged to break the driving relation, a solenoid controlling said jaw elements, a solenoid switch for each of said field coils, a pair of spaced limit switches operatively connected to said solenoid and solenoid switches, a member movable between said limit switches to actuate one or the other, means drivably connected to said output shaft to cause movement of said member to engage one of said limit switches after a predetermined number of revolutions of said output shaft, contact means included in the circuit of said solenoid switches, and means to control said contact means from said jaw clutch elements whereby engagement of said clutch elements makes the contact and disengagement of the clutch elements breaks the contact.

2,391,334
**TREATING HYDROCARBON FLUIDS**
Edward W. S. Nicholson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 27, 1942, Serial No. 456,319
6 Claims. (Cl. 196—52)

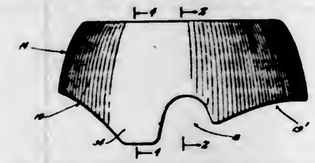
3. In a process wherein hydrocarbons are converted in the presence of finely divided catalyst which thereby becomes fouled and the fouled catalyst is regenerated with an oxygen-containing gas in a regeneration zone by burning after a conversion operation and during normal regeneration the carbonaceous content of the catalyst particles is reduced to less than about 1.0% by weight on the catalyst, the step of reducing the amount of regenerating gas supplied to the regeneration zone to decrease the burning and to increase the carbonaceous material on the catalyst



to above about 1.5% during regeneration and then separating partly regenerated catalyst particles from the regeneration gases and during such separation selectively removing catalyst fines from coarse catalyst by retaining fines in suspension in the gases and thereafter removing fines from the process.



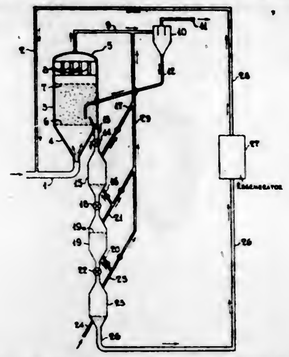
2,391,335
**HEAD PROTECTOR**
Paul C. O'Brien, Norwalk, Conn., assignor to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application April 5, 1941, Serial No. 386,983
8 Claims. (Cl. 2—3)



1. In a head protector, the combination of an annular shell of stiffened fabric, to fit around the wearer's head, and having recesses for ears; and outwardly bulged depending sections on said shell, located forwardly of and having rear edges defining the forward portions of said recesses, adapted to overlie the wearer's temples and out of line of vision of the wearer, said bulged sections terminating at the forward portions thereof at locations rearwardly of the front of the shell and at the sides of the shell and out of line of vision of the wearer.

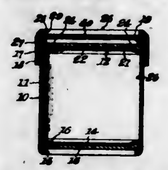
2,391,336
**PETROLEUM CONVERSION PROCESS**
Henry J. Ogorzaly, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 27, 1944, Serial No. 546,801
10 Claims. (Cl. 196—52)

1. In a hydrocarbon conversion process in which hydrocarbons are brought into contact in a reaction zone with a finely divided solid contact catalyst which is maintained in a fluidized condition in which the bulk of the hydrocarbons is separated as vapors from the catalyst which is eventually partially fouled with carbon deposits thereon and in which the catalyst is subsequently regenerated in a regeneration zone and reused in the reaction zone for further conversion, the improved steps comprising withdrawing a stream of fluidized partially fouled catalyst from the reaction zone, stripping the catalyst of the more readily removable hydrocarbons associated therewith by means of a current of inert gas in a primary stripping zone,



thereafter maintaining the partially stripped fluidized catalyst as a dense dispersion under a temperature suitable for hydrocarbon decomposition for an extended period in a coking zone wherein a substantial portion of the residual hydrocarbons is decomposed to a readily vaporizable product and coke, again stripping the catalyst of vaporizable constituents by means of a current of inert gas in a secondary stripping zone, and conducting the catalyst to the regeneration zone.

2,391,337
**PAPER CONTAINER STRUCTURE AND END CLOSURE THEREFOR**
James H. O'Neil, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 13, 1943, Serial No. 514,129
1 Claim. (Cl. 229—5.5)



A fiber container comprising a cylindrical open end body member, a bottom end attached to said body member and a top end closure for said body member including a collar glued to the outer face of the body member and projecting above the end thereof, a cup-shaped member inserted in said collar and dimensioned so as to extend over the end of the body wall and contact with the inner face of the collar, a heavy reinforcing disk disposed within said cup-shaped member and dimensioned so as to extend over the body wall and abut against the cylindrical wall of the cup-shaped member for clamping the same against

the inner surface of said collar, said collar being turned over the cylindrical wall of the cup-shaped member and crimped into engagement with the inner face thereof and the outer peripheral portion of said heavy disk, said disk being scored to permit the rupturing thereof for the opening of the container.

---

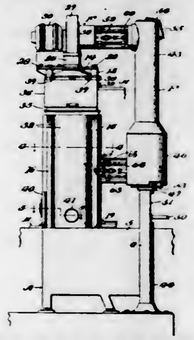
**2,391,338**
**HAMS AND PREPARATION THEREOF**
**Elmer C. Oswald and Reese Gardiner Lewis, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois**
**Application December 20, 1940, Serial No. 370,930**
**6 Claims. (Cl. 99—157)**



1. A process for preparing dried hams, comprising removing the bone from the ham, introducing gelatin into the cavity to fill the space and to seal the cavity, pressing the ham to shape it in a compact mass of solid cross-section throughout in which air is substantially excluded from the interior of the mass, and subjecting the ham to a prolonged drying treatment to reduce the moisture content thereof to less than 50%.

---

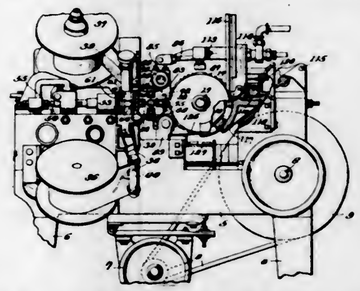
**2,391,339**
**AIR HEATER AND CIRCULATOR FOR CAN END DRYING MACHINES**
**Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application April 20, 1942, Serial No. 439,754**
**8 Claims. (Cl. 263—43)**



1. In apparatus of the character described, an insulated casing generally cylindriform in shape and having its axis uprightly disposed, means for moving can ends vertically and in generally parallel spaced relation through said casing to be dried therein, an air inlet opening centrally and downwardly into the casing, an exhaust duct leading from the casing near the bottom thereof, an outlet leading from a lower portion of the casing, ducts connecting the outlet with the inlet, a fan connected in said ducts for forcing a circulation of air therethrough and downwardly through the casing, means for introducing make-up air into said circulation, and a perforated air dispersing sleeve supported within the casing in spaced relation to the walls thereof and communicating at its upper end with the inlet so as to receive air therefrom and uniformly distribute it outwardly through said can ends, said sleeve being closed at its lower end and having its lower end spaced above the bottom of the casing about one third the depth of the casing.

---

**2,391,340**
**CROWN CAP SPOTTING APPARATUS**
**Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application November 30, 1942, Serial No. 467,397**
**20 Claims. (Cl. 154—1)**



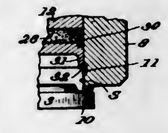
14. In a pad and spot assembling machine having a spot forming station and a spot and pad assembling station, means at said spot forming station for punch-forming spots from adhesive coated material, a rotary carrier on which the spots are deposited as they are punched, a second rotary carrier, means for transferring the spots from the first mentioned carrier to the second carrier, means for operating the carriers in timed relation, means for directly heating the spots on the second carrier while moving toward the assembling station for rendering the adhesive thereon tacky, said heating means constituting the sole heating means and being arranged adjacent the second carrier only at a point remote from the punch-forming means and the first mentioned carrier, means for presenting pads at the assembling station, and means for bringing the spots and pads into contacting relation at the assembling station for uniting the spots and pads by affixing the adhesive coated faces of the spots to the pads.

---

**2,391,341**
**MACHINE FOR APPLYING SEALING COMPOUND TO CONTAINER ENDS**
**Paul E. Pearson and Alfred Treff, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application November 23, 1943, Serial No. 511,458**
**2 Claims. (Cl. 113—80)**

1. A machine for applying a sealing compound to the channel of a can end comprising a support for the can end, a channel engaging member having a cylindrical inner wall and a projecting portion at its lower end adapted to contact with the can end and clamp said end against the support therefor, said channel engaging member having an annular recess in said inner face forming a measuring pocket for the sealing compound, a piston movable along said cylindrical wall of the channel engaging member, said channel engaging member having a supply chamber for the sealing compound above said piston, said piston being movable relative to the recess so as to connect

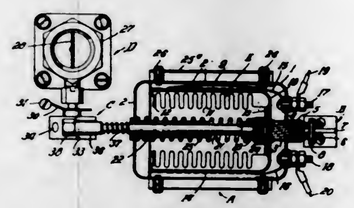




the recess with the supply chamber on the down stroke of the piston and uncover the recess on the upstroke of the piston whereby the measured amount of sealing compound in the recess will flow along the inner wall of the channel engaging member into the channel of the can end.

---

**2,391,342**
**HEAT MOTOR**
**William R. Peterson and Joseph E. La Rocque, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York**
**Application June 5, 1942, Serial No. 445,840**
**3 Claims. (Cl. 60—25)**



1. A heat motor comprising an outer ventilated shell, an inner housing secured to the shell, an expansible bellows mounted in the inner housing and having one end portion fixedly secured thereto to provide a chamber for containing heat responsive fluid, an electric heating coil arranged between the outer ventilated shell and the inner housing and adapted when energized to vaporize the fluid and compress the bellows, a stem provided with a head portion of heat-insulating material loosely engaging the movable end of the bellows, a separately formed relatively long sleeve engaging the shell for supporting and guiding the outer end of the stem through an end of the shell, and a spring mounted around the sleeve and confined between said head of insulating material and shell and opposing the contraction of the bellows.

---

**2,391,343**
**VAGINAL OBTURATOR**
**Otto Popper, Johannesburg, Transvaal, Union of South Africa**
**Application January 29, 1942, Serial No. 428,781**
**3 Claims. (Cl. 128—127)**

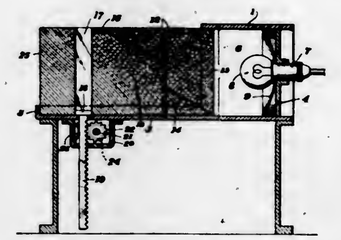
1. A vaginal obturator consisting of a deformable diaphragm which, in its expanded form, is of materially disc shape and stiff against radial deformation and circumcentrically collapsible upon deformation out of the general plane of the disc, and thus capable of assuming a folded position in which it is of rod form of substantially less diameter than the disc, in which rod form the radial stiffness of the expanded form is present as endwise stiffness and the periphery of the disc is collapsed and forms one end of the rod form; said obturator comprising a disc of flexible material and a spring element tending to



bring the disc to its expanded form and to hold it in such expanded form; said spring element comprising a plurality of radial arms formed by diametrally complete strips of spring material; said strips being superimposed on one another and connected together by means which do not impair the elasticity and strength of the individual strips.

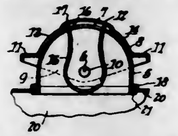
---

**2,391,344**
**CRYSTAL INSPECTION DEVICE**
**James R. Prall, Newark, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**
**Application August 18, 1943, Serial No. 499,043**
**6 Claims. (Cl. 88—14)**



1. Apparatus for test inspection of piezo-electric crystal blanks comprising a lamp housing structure, a lamp therein, means for directing light rays to pass forwardly therefrom in a concentrated beam including a light transmission block of a material having a high index of refraction, said block having a rearward polished wall surface perpendicular to the beam emitted by said light source, said block having an upwardly and forwardly inclined polished forward wall surface and a polished top wall surface having a forward extension therefrom forming the upper surface of a reduced portion having its lower surface joined to the inclined wall at the outer end thereof and being of a thickness corresponding substantially to the thickness of the blanks to be tested, a supporting structure including a forward block member and an auxiliary block member having a recess to provide a vertical guideway passage to conduct the blanks into the beam of light from the transmission block forward extension, said forward block being arranged to support said light transmission block and forming with the forward extension of the latter one side wall of said passage, and means to advance a stack of crystal blanks through the passage.

**2,391,345**
**SELF-CLOSING TOP AND DISPENSING CONTAINER**
**William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application April 26, 1943, Serial No. 484,630**
**5 Claims. (Cl. 222—517)**



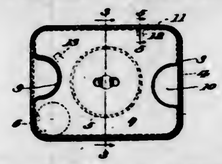
4. A dispensing top for containers comprising a top body having a centrally disposed dispensing opening therein, a slide movable over the top and having two dispensing openings therein one disposed at each side of and out of registry with the top opening, and spring means constantly tending to hold the slide centered over the top opening with its central portion closing the top opening, said slide being displaceable by finger manipulation for bringing one or the other of its openings into registry with the top opening and automatically returnable upon release of finger pressure, and by action of said spring means, to its normal top opening closing position, said spring means comprising a spring loop extending down through the top body opening with its ends extending up through said body opening and engaging the slide in a manner for yieldably holding it centered over said body opening, said spring ends being dimensioned to have movement guiding fit in the top body opening and having lateral extensions overlying the edges of the body opening above the body, and said slide being recessed to receive said end extensions.

**2,391,346**
**CROWN CAPPED CONTAINER**
**William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application April 26, 1943, Serial No. 484,631**
**4 Claims. (Cl. 220—60)**



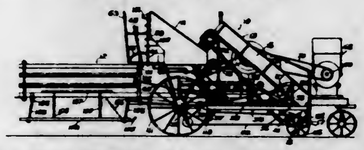
1. A container of the character described comprising a rectangular body with rounded corners and having a bottom, walls extending uprightly smoothly and without interruption from the bottom to the upper extremity thereof and defining a large filler opening at said upper extremity, said upper extremity terminating in a horizontally flattened outwardly directed stiffener bead of uniform thickness throughout the circumference thereof and formed by three thicknesses of the body extremity stock folded flat upon each other pleat fashion with a raw edge portion thereof disposed uppermost and directed outwardly, and a rectangular closure with rounded corners and including a deep bead embracing channel for embracing and supporting said bead against inward bending and having a sealing gasket therein for engaging in sealing contact with said bead, said channel being defined in part by an outer skirt extending below the bead and having a shoulder placed at such depth on said skirt as to be adapted to be forced under said flattened bead for securely but removably clamping the closure on the body.

**2,391,347**
**TABLET BOX**
**William F. Punte, Passaic, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application June 17, 1943, Serial No. 491,182**
**3 Claims. (Cl. 206—42)**



1. A tablet dispensing box comprising upper and lower sections rectangular in cross section and having telescoping connection with a frictional fit for normally holding said sections in assembled position, the top section of said box having a dispensing opening in one corner thereof, a cover member conforming in shape to the top of the box and pivoted centrally thereof, said cover member having a cut-away portion in the end thereof adjacent the corner opening, said cut-away portion in the cover being disposed midway between the sides thereof and out of register with the corner opening when the side edge of the cover is in alignment with the side edge of the box and adapted to be turned into alignment with said dispensing opening when said cover is swung on its pivot, a stop for limiting the swinging movement of the cover when the cut-away portion is in register with the dispensing opening, and a stop for limiting the swinging movement of the cover when the dispensing opening is closed.

**2,391,348**
**PICKUP CONSTRUCTION**
**Russell R. Raney, Auburn, N. Y., assignor to International Harvester Company, a corporation of New Jersey**
**Original application December 1, 1938, Serial No. 243,412. Divided and this application July 30, 1941, Serial No. 404,644**
**18 Claims. (Cl. 56—364)**



1. In combination, a first frame, ground-engaging means therefor, a second frame of triangular shape, means connecting one corner of the second frame to the first frame for support and for vertical pivotal and sliding movement with respect thereto, ground-engaging means supporting the side of the second frame opposite the said one corner, a pick-up unit positioned over the second frame, and means entirely supporting the pick-up unit on the second frame.

**2,391,349**
**GOGGLE**
**Ernest A. Ring, West Barrington, R. I., assignor of one-half to Francis M. Blakeney, Cranston, R. I.**
**Application November 17, 1943, Serial No. 510,653**
**3 Claims. (Cl. 2—14)**

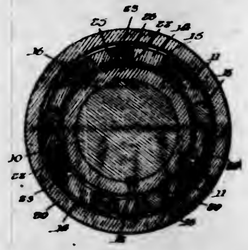
3. A goggle comprising a frame constructed from a strip of transparent flexible sheet-material folded into curvilinear form to provide a flat top wall, curved side and bottom walls and an upstanding bridge portion at the center with the ends of the strip meeting and permanently secured together, said frame having a lens-opening of double ovate-orbicular outline at the front with a continuous concavo-convex flange forming a groove surrounding the lens-opening, a lens having an outline conforming to that of the lens-





opening in the frame, said frame being expandible in several directions to permit the lens to be mounted in the groove surrounding the opening and contractible to retain the lens in place, and a rigid stay extending vertically across the center of the lens and having its ends releasably attached to the top of the frame and its bridge-portion whereby to adapt it to be removed to permit expansion of the frame for removal of the lens.

**2,391,350**
**BEARING CLUTCH**
**Edward P. Schmidt, Hollywood, Ill.**
**Application July 28, 1943, Serial No. 496,395**
**15 Claims. (Cl. 192—45)**



1. In a clutch device of the character described, the combination with inner and outer concentric rings having raceways on their adjacent peripheries, one ring being adapted to be driven whereas the other ring comprises the driving member, of an anti-friction bearing located between the inner and outer rings and including a cage retaining a plurality of rolling means having rolling contact with the raceways provided by the rings, and clutching devices also retained by said cage, said clutching devices each comprising a pair of elements having rolling contact with each other and being disposed adjacent the raceways provided by the inner and outer rings, respectively.

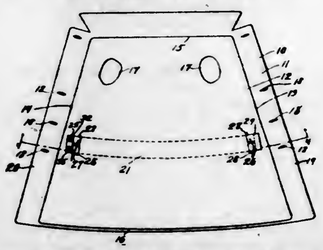
**2,391,351**
**APPARATUS FOR TESTING CANS FOR LEAKS**
**John E. Schmidt, Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application January 8, 1945, Serial No. 571,823**
**5 Claims. (Cl. 73—40)**

1. An apparatus for testing cans for leaks comprising a tank adapted to contain a water bath, guides therein for directing the can into and out of the water bath, a yieldingly mounted can support disposed upon the bottom of the tank between the guides, a pad for closing the upper end of the can, hydraulic means for moving said pad



into engagement with a can disposed in said guides for forcing the can beneath the surface of the bath against the resistance of the yielding support, and means for supplying air under pressure to the can.

**2,391,352**
**COAT**
**Meyer D. Schwartz, Sunnyside, N. Y.**
**Application July 7, 1944, Serial No. 543,894**
**1 Claim. (Cl. 2—93)**



A coat-like outer garment including: a main outer flexible fabric-member adapted to be closed about a person; an inner flexible fabric lining-member inside of and having its opposite side edges secured to said main outer fabric-member and providing at least one opening adjacent each of its said side edges; and a band-member between said main outer fabric-member and said inner lining-member and extending along and secured to the small-of-the-back region of said outer fabric-member and extending longitudinally in the direction of closure of said main fabric-member; the ends of said band-member extending out through said openings and being adapted to be detachably connected together.

**2,391,353**
**ARMOR**
**Hiram W. Sheridan, Oak Park, Ill.**
**Application December 4, 1941, Serial No. 421,599**
**6 Claims. (Cl. 109—85)**

1. An armor defense construction comprising a plate of armor steel having its inner face highly

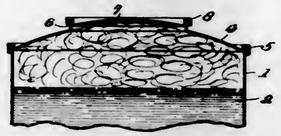
polished for lessening the rupture of the plate when struck by a shell on its outer surface, said inner face being coated for preserving the finish,



and a plate of relatively soft tough metal in firm contact with the outer face of said plate for preventing shattering of the latter when said plate is struck by a shell.

---

**2,391,354**
**METHOD OF TESTING FILLED SEALED CANS FOR LEAKS**
**Harry M. Slosberg, Ames, Iowa, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application May 5, 1944, Serial No. 534,385**
**3 Claims. (Cl. 73—52)**

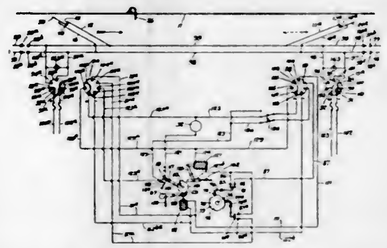


1. The method of testing filled sealed metal cans for leaks in which is packed a product capable of absorbing carbon dioxide gas, comprising placing in the cans before sealing solid carbon dioxide in sufficient quantity to create an internal pressure on sublimation, which causes the walls of the can to bulge if free from leaks, separating, after a period of time sufficient to permit sublimation of the carbon dioxide, the cans with bulging walls from the cans with flats, the quantity of carbon dioxide being such that the product will absorb in due course of time sufficient of the carbon dioxide gas so as to reduce the pressure and permit the walls of the can to return to their initial flat condition.

---

**2,391,355**
**STREET INDICATING DEVICE FOR VEHICLES**
**Hugh C. Smith, Chicago, Ill.**
**Application December 23, 1940, Serial No. 371,330**
**1 Claim. (Cl. 40—57)**

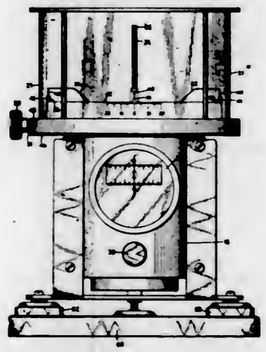
A street indicating device for vehicles comprising two rollers, a flexible strip passing over said rollers, having thereon the names of the streets along the path of the vehicle, a casing in which said rollers are rotatably mounted, a street name reading window in said casing, one of said rollers being located opposite said window, a single motor for actuating said rollers located in said casing, supports for said casing at opposite ends of the vehicle, two plugs provided with connections for connecting the motor in circuit, two plug sockets, one at each end of the vehicle with which one of said plugs is connected when the casing is at one end of the vehicle and with which the other plug is connected when the casing is at the other end of the vehicle, two separate switches in said casing for said motor circuit, a single notched wheel in said casing operatively connected with said



motor so as to be moved thereby, and a separate actuating member for each of said switches engaging the periphery of the notched wheel so as to actuate one of said switches when the casing is at one end of the vehicle and so as to actuate the other of said switches when the casing is at the other end of the vehicle.

---

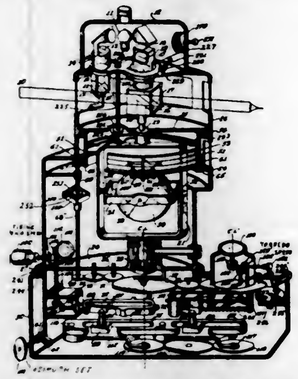
**2,391,356**
**TORPEDO DIRECTOR**
**Elmer A. Sperry, Jr., New York and John D. Peace, Jr., Malba, N. Y., assignors to Sperry Products, Inc., Hoboken, N. J., a corporation of New York**
**Application July 25, 1940, Serial No. 347,354**
**2 Claims. (Cl. 33—46)**



1. In a torpedo director for ships, in combination, a line of sight device adapted to be actuated by an operator, means for stabilizing said device in any position in azimuth in which it is placed, a pointer fixed to said sight device, a second pointer supported on said ship for movement similar to said first pointer, means for setting said second pointer relative to the ship for collision course correction as determined by the observed direction and rate of movement of the target relative to the line of sight whereby the ship may be steered to collision course by maintaining said pointers in coincidence.



**2,391,357**
**TORPEDO DIRECTOR**
**Elmer A. Sperry, Jr., New York, N. Y., and Charles B. Roede, Ridgefield, N. J., assignors to Sperry Products, Inc., Hoboken, N. J., a corporation of New York**
**Application July 8, 1941, Serial No. 401,462**
**13 Claims. (Cl. 33—46)**



1. In a torpedo director adapted to be mounted on a ship, in combination, a line of sight device for sighting on a target, a torpedo course determining device, means whereby said second device is actuated in accordance with the ship's speed, the torpedo speed, and the angle through which the first device is actuated, and means whereby the operation of said first device actuates said second device.

13. In a torpedo director adapted to be mounted on a ship and having a line of sight device adapted to be trained on a target, means for stabilizing said device in azimuth, said means including a gyroscope, means for mounting said gyroscope with three degrees of freedom for pivotal movement about a horizontal axis and a vertical axis, whereby said gyroscope will maintain its position in azimuth independent of the movements of the ship, and means whereby said gyroscope may be locked against precession, said last named means comprising a bail movable in azimuth with said ship and pivotally mounted thereon, said bail substantially surrounding the gyroscope and its mounting, and means whereby said bail may be swung into engagement with said gyroscope mounting to lock the same against pivotal movement.

---

**2,391,358**
**METHOD OF PREPARING CATALYST**
**William E. Spicer and Rhea N. Watts, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application August 29, 1941, Serial No. 408,820**
**6 Claims. (Cl. 252—259.3)**

1. The method of preparing an alumina hydrate catalyst composition in the form of pellets of controlled size and shape, suitable for use in a process of the type of catalytic reforming, catalytic dehydrogenation and catalytic aromatization, which comprises forming an extrudable paste by mixing finely divided alumina hydrate with an aqueous solution of chromium trioxide, extruding said paste through an orifice of suitable size and shape, cutting the extruded mass into pieces of short length, drying said pieces, and heating the dried pieces to a temperature between about 800° and about 1200° F. until the pieces are hard and rugged.

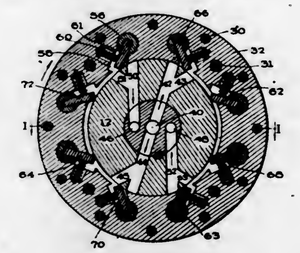
---

**2,391,359**
**METHOD OF MAKING TERPENE POLYMERS**
**Harold M. Spurlin, Marshallton, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application October 24, 1942, Serial No. 463,254**
**4 Claims. (Cl. 260—80)**

4. The process of producing a solid, substantially colorles sterpene polymer having an average molecular weight between about 615 and about 2200 which comprises contacting a polymerizable terpene selected from the group consisting of beta-pinene, myrcene and allo-ocimene with beryllium chloride under substantially anhydrous conditions, in the presence of a chlorinated hydrocarbon solvent, at a temperature between about —78° C. and about 200° C. and recovering the resultant solid polymer.

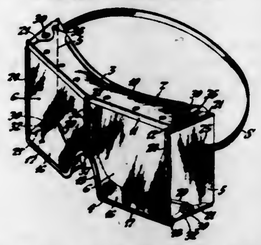
---

**2,391,360**
**HYDRAULIC FLUID MOTOR**
**William T. Stephens, Cleveland, Ohio, assignor to Hydraulic Control Engineering Company, Cleveland, Ohio, a corporation of Ohio**
**Application July 13, 1942, Serial No. 450,707**
**8 Claims. (Cl. 121—55)**



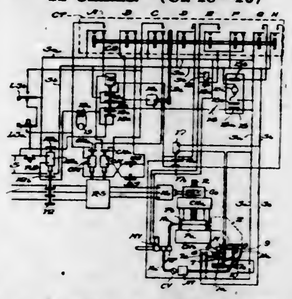
3. A hydraulic motor comprising in combination a housing member providing a cylindrical chamber; a peripherally ported, cam-shaped member within the cylindrical chamber and relatively rotatable with respect to the housing member about a common axis; and four uniformly spaced vanes pivotally mounted on the housing member within the cylindrical chamber thereof and each arranged to produce relative rotation in the same direction, said housing being formed with individual recesses adapted completely to receive each vane, and the cam-shaped member being symmetrical in outline and being formed to provide a circular sealing segment concentric with and having the same radius as the cylindrical chamber and of greater circumferential extent than the chamber opening of each vane recess, an unported approximately semi-circular segment of smaller radius opposite the circular sealing segment, a spaced pair of inlet ports and a spaced pair of outlet ports on opposite sides of the circular sealing segment, one of said inlet ports and one of said outlet ports being diametrically opposed, whereby two successive vanes will always be potentially effective to drive the motor.

2,391,361
GOGGLE
Walter J. Stevenson, Riverside, R. I., assignor to Watchemoket Optical Co., Inc., Providence, R. I., a corporation of Rhode Island
Application September 11, 1943, Serial No. 501,975
2 Claims. (Cl. 2—14)



1. In a goggle of the type indicated, a substantially rigid frame comprising a longitudinally-extending top member having its rearward edge of arcuate contour to fit the face of the wearer, a bottom member of substantially the same form and having its lateral wing-portions connected by an arched bridge-portion of narrow width adapted to fit over the nose of the wearer, said top and bottom portions constructed of transparent plastic material with grooves at their forward edges for holding a pair of lenses extending in angular relation outwardly from the center of the frame, substantially rectangular side panels having hinge-portions underlying the top and bottom members of the frame and pivotally connected thereto to rigidly connect said top and bottom members, said side panels constructed of transparent plastic material and having inwardly-directed integral flanges at their forward edges adapted to extend vertically across the edges of the lenses to retain them in the frame, and said hinges so constructed and arranged as to adapt the flanges on the side panels to be swung back to release the lenses to permit them to be withdrawn from the frame for replacement.

2,391,362
OPERATION CHECK AND CONTROL SYSTEM FOR MOLDING MACHINES
William Strauss, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application May 19, 1944, Serial No. 536,334
11 Claims. (Cl. 18—16)



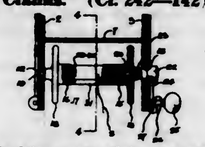
1. In combination, a molding press having a movable part for opening and closing the mold, power means for operating said movable part through a succession of molding cycles, an air-jet arranged to discharge molded articles from said press by a blast of air, a safety device positioned in line with said blast to receive the articles discharged from said press and including a movable control element to be operated by said articles to control the continued operation of said power means, pneumatically operated means positioned to exert a force against said movable element in opposition to the blast from said jet, a source of air under pressure and connections from said source to said air-jet and said pneumatic means, control means operated in timed relation with said movable part for simultaneously supplying air from said source to each of said connections for a portion of each molding cycle, and means for continuing the force from said pneumatic means until the air blast from the jet has ceased to be effective.

2,391,363
TRANSPORT VEHICLE
Clarence C. Stuart, Pontiac, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan
Application August 7, 1942, Serial No. 453,935
6 Claims. (Cl. 248—119)



1. Dunnage means for supporting a load for transportation on a vehicle comprising a pair of supporting stations spaced longitudinally of said load, two pairs of seat brackets one pair spaced transversely of said load and secured thereto at a position above each of said stations, a cross bar at one of said stations and extending transversely of said load, a pivotal mounting connecting said cross bar to said vehicle under said load and centrally thereof, connections between the ends of said cross bar and said pair of seat brackets whereby said load is pivotally mounted at said station, means connecting the pair of seat brackets at the other of said stations to said vehicle.

2,391,364
TWINE HOLDER
Clarence D. Threlkeld, Bellingham, Wash.
Application January 18, 1945, Serial No. 573,381
3 Claims. (Cl. 242—142)



1. A twine holder comprising a casing adapted for attachment to a wall surface and having side walls, a reel journalled between said walls, said reel having a hand crank adjacent one wall, said crank having a cutter adjacent its outer end adapted for cutting a length of twine withdrawn from the reel.

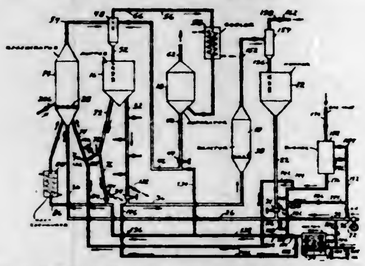
2,391,365
ELECTRIC WEFT DETECTOR FOR LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 23, 1944, Serial No. 555,447
17 Claims. (Cl. 139—273)

1. In a side slipping electrically indicating weft detector having a body, guide means extending backwardly and forwardly on the body, a weft detector member mounted for sliding and angular movement on said body, a lateral arm on the detector member slidable along and movable angularly relatively to said guide means, a stop on the body for the lateral arm, a spring mounted on the body engaging the lateral arm and normally holding the latter against the stop to locate the detector member in normal position, and an electric contact insulated from the body and normally out of contact with said arm, said detector member when moving angularly relatively to the body causing said arm to move along and angularly relatively to said guide means and into engagement with said electric contact.





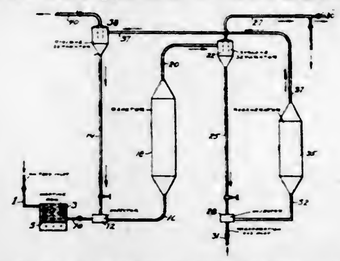
2,391,366
CHEMICAL REACTIONS
Charles W. Tyson, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 15, 1943, Serial No. 490,831
7 Claims. (Cl. 196—52)



1. In a starting up procedure for a hydrocarbon conversion unit substantially at atmospheric temperature and using fluidized powdered catalyst to be continuously circulated during the conversion process in a closed cycle through a reaction zone and a regeneration zone for the spent catalyst, the steps of passing heated air through the entire unit prior to the introduction of powdered catalyst until a temperature above about 225° F. is obtained for the entire unit, then substituting superheated steam for air going to said reaction zone to displace the air and to prepare the reaction zone for hydrocarbon conversion and then adding powdered catalyst to said regeneration zone while continuing the heating with heated air.

2,391,367
REFINING PROCESS
Willie W. Hodgeson, Baker, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 23, 1941, Serial No. 424,155
9 Claims. (Cl. 196—52)

1. In the operation of a continuous method for cracking hydrocarbon oils in the vapor phase in the presence of a suspended catalyst passed through a cracking zone and a regeneration zone wherein coke deposits are burned off, the improvement which comprises raising the temperature of the system to operating conditions by supplying heat to the system and employing during the initial phases of the cracking operation a catalyst to oil feed ratio substantially lower than the ratio preferred for the normal operation so as to produce a small amount of coke on the catalyst while the temperatures in the cracking and regeneration zones are still below the limits of normal operation; and increasing the catalyst to oil feed ratio as the temperature values in the system increase until the desired normal cracking and regeneration temperatures and the desired normal catalyst to oil feed ratio are attained.



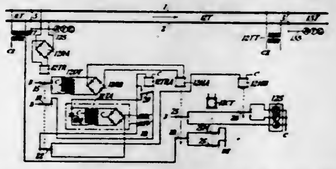
2,391,368
RESIN COMPOSITION
George J. Underwood, Chicago, Ill., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1943, Serial No. 481,134
11 Claims. (Cl. 260—7)

10. An impregnating composition comprising a water-soluble phenol-aldehyde resin and an aqueous emulsion of a residue low in abietic acid remaining after the separation of refined rosin high in abietic acid from resinous material obtained by extraction of pine wood with a solvent capable of extracting a petroleum hydrocarbon-insoluble resin component, containing casein and ammonium hydroxide.

2,391,369
CODE DETECTING MEANS
Carl Volz, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 30, 1942, Serial No. 452,902
1 Claim. (Cl. 177—353)

In combination, a code following relay having contacts movable between a first and a second position, means for supplying to said relay coded energy in which the code components are at times of one length and at other times are of a shorter length, a device including a winding mounted on a magnetic core and a condenser and arranged to form a highly damped oscillating circuit, a source of unidirectional energy, means including a contact of said code following relay closed when the relay contacts are in their first position to supply energy from said source to said device to store up energy therein and on movement of the relay contacts to their second position to disconnect said source from said device to cause current to oscillate in said

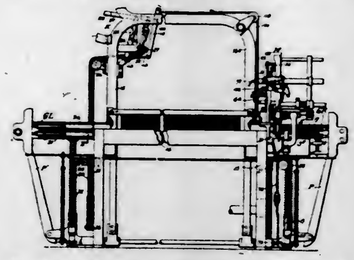
device, a detector relay having contacts which occupy a picked-up position only when energy in excess of a predetermined value is supplied to the relay, and means including a contact of said code following relay closed when the relay contacts are in their second position and responsive to oscillations in said device for supplying to said detector relay energy the value of which varies



in accordance with the magnitude of the oscillations in said device, said device and said detector relay being selected and proportioned so that the energy supplied to said relay as a result of oscillations in said device exceeds said predetermined value for a period longer than a code component of said shorter length but not for a period as long as a code component of said one length.

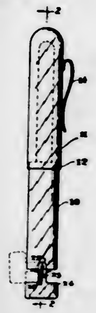
---

**2,391,370**
**WEFT REPLENISHING LOOM**
**Walter H. Wakefield, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application June 3, 1944, Serial No. 538,569**
**12 Claims. (Cl. 139—230)**



1. In a weft replenishing loom having at the replenishing end thereof a weft supply in a shifting shuttle box which is in raised inactive position on the first and second picks of the loom and is in down active position on the third and fourth picks of the loom, the loom having a plurality of bobbin releasers and a selector registerable with the releasers one at a time and having an operating movement upon indication of weft exhaustion to actuate the releaser registered therewith, said selector being capable of moving to a non-registering position with respect to all of said releasers, a weft detector to detect said weft supply and capable of indicating weft exhaustion on the first and third picks of the loom, means controlled by the detector and operative on the first and third picks of the loom when the detector indicates weft exhaustion to give the selector said operating movement, said means being idle during the second and fourth picks of the loom, and means operative during the second pick of the loom to move the selector to said non-registering position out of register with respect to all of the bobbin releasers and maintain the selector in said non-registering position during the third pick of the loom.

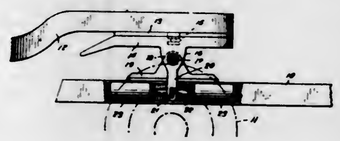
**2,391,371**
**DENTIFRICE AND TOOTHBRUSH CONTAINER**
**Percy Gordon Watt, Palmerston, Ontario, Canada**
**Application January 28, 1943, Serial No. 474,050**
**2 Claims. (Cl. 206—15.1)**



1. In a container a shank member, said shank member having a hollow chamber therein adapted to contain dischargeable material, said chamber having a perforated base for discharging the material therethrough, a slidable closure plate to control discharge of said material through said perforations, a cover member telescopically engageable over the end of said shank to enclose said closure plate, said cover being slidable to engage or disengage it from the shank and being secured in slidable captive relation to the shank, said cover being swingable out of the axial line of said container, when disengaged therefrom clearly to expose said closure plate, a brush member integral with said shank member at its opposite end, the said hollow shank member forming a handle for said brush member and a cover member removably secured to said opposite end of said shank to enclose said brush.

---

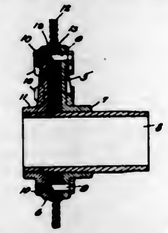
**2,391,372**
**TRACTOR STABILIZER**
**Maurice E. Weigand, Dover, Ohio**
**Application September 12, 1944, Serial No. 553,741**
**12 Claims. (Cl. 280—33.1)**



1. In combination with a tractor and semi-trailer having cooperating upper and lower fifth wheel members providing a vertical pivotal connection, a horizontal transversely disposed rocker shaft providing pivot means for connecting the lower fifth wheel member to the tractor, a lever arm rigidly mounted upon the lower fifth wheel member and a resilient hitch carried by the tractor frame and connected to the end of said lever arm to resist pivotal movement of the lower fifth wheel member in either direction around the horizontal, transversely disposed rocker shaft.



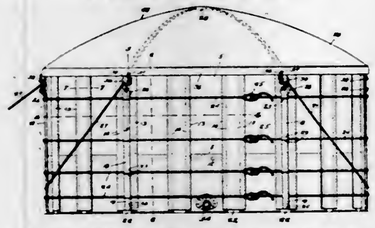
**2,391,373**
**OUTLET FLANGE FOR TANKS**
**Cecil M. Wickstrum, Omaha, Nebr.**
**Application June 28, 1943, Serial No. 492,626**
**1 Claim. (Cl. 285—38)**



An outlet flange for attachment to flexible storage tanks, comprising outer and inner members having aligning pipe openings, adapted to be positioned against opposite sides of the wall of a storage tank at the outlet opening of the tank, an inwardly extended internally threaded annular flange formed on the inner member, said flange forming a continuation of the wall of the pipe opening, said inner member having threaded bores closed at their inner ends, said outer member having an outwardly extended annular flange forming a continuation of the wall of the pipe opening thereof, the outer surface of the latter flange having flat wrench surfaces, said outer member also having bolt openings adapted to align with the threaded bores of the inner member, bolts extending into said bolt openings and threaded bores, securing the members and wall of the tank together, and a pipe having external threads adapted to cooperate with the threads of the flange of the inner member, securing the pipe in place, and said pipe adapted to engage the inner surface of the flange of said outer member.

---

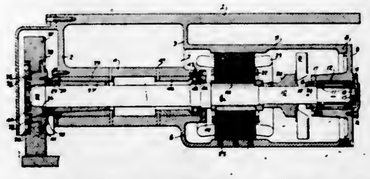
**2,391,374**
**PORTABLE STORAGE TANK**
**Cecil M. Wickstrum, Omaha, Nebr.**
**Application January 3, 1944, Serial No. 516,824**
**3 Claims. (Cl. 150—0.5)**



1. A portable storage tank, comprising a body constructed of fabric material, vertical staves secured to the body, a top for the body, said top including a collapsible frame, embodying brackets adapted to be fitted over the upper ends of the body and staves, horizontal bars pivotally connected with the brackets, flexible bars pivotally connected with the brackets, a plate connecting the inner ends of said flexible bars, a plate connecting the inner ends of the horizontal bars, means for holding the plates spaced apart, a fabric cover adapted to be stretched over said top frame, and a bottom forming a part of the tank.

---

**2,391,375**
**SPINDLE SHAFT WITH INTERMEDIATE BALL BEARING**
**John C. Wilson, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio**
**Application October 20, 1943, Serial No. 506,927**
**5 Claims. (Cl. 51—166)**



1. In a grinding machine, a frame, a shaft, main bearings carried by said frame and rotatably supporting said shaft adjacent the ends thereof, a grinding wheel fixed to one end of said shaft, a tubular hub integral with said frame and loosely surrounding said shaft from the grinding wheel and inwardly to a point approximately midway of said shaft, a motor having its stator carried by said frame and having its rotor fixed to said shaft externally of but loosely adjacent the inner end of said hub, an intermediate bearing mounted in the inner end of said hub and rotatably supporting said shaft closely adjacent to said rotor, and means positioned between the grinding wheel and hub for tightening the main bearing nearer to said wheel.

---

**2,391,376**
**MACHINABLE INSULATING COMPOSITION**
**Albert J. Monack, Rutherford, N. J., assignor to Mycalex Corporation of America, Passaic County, N. J., a corporation of New Jersey**
**No Drawing. Application September 30, 1943, Serial No. 504,503**
**15 Claims. (Cl. 106—46)**

1. A machinable insulating composition comprising a finely divided crystalline substance having a high dielectric constant taken from the class consisting of titanium dioxide and titanates and mixtures thereof, intimately mixed with finely divided mica, said mixture being bonded by a glass frit which softens below the temperature of dissociation of mica, the amount of frit being about 30–40% of the composition and the titanium compound at least about 10% thereof, said titanium compound being held in crystalline form in said composition.

# DESIGNS

DECEMBER 18, 1945

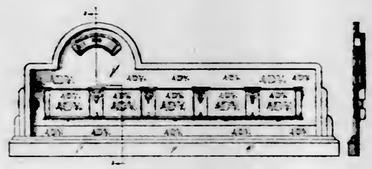
**143,179**
**DESIGN FOR A HAND LUGGAGE CASE**
**George G. Barton, Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin**
**Application October 6, 1944, Serial No. 115,652**
**Term of patent 14 years**
**(Cl. D87—5)**



The ornamental design for a hand luggage case, as shown.

---

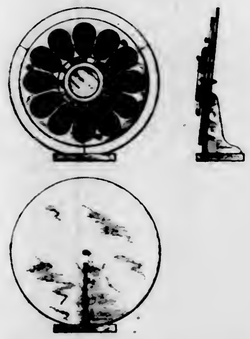
**143,180**
**DESIGN FOR AN ADVERTISING SIGN BOARD**
**Joseph S. Batt, University City, Mo.**
**Application July 27, 1945, Serial No. 120,990**
**Term of patent 14 years**
**(Cl. D1—12)**



The ornamental design for an advertising sign board, substantially as shown.



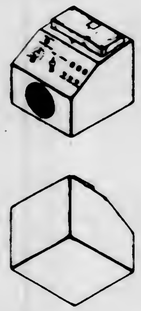
**143,181**
**DESIGN FOR A COSMETIC COLOR SELECTION STAND**
**Jules Brodeur, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware**
**Application August 1, 1945, Serial No. 121,124**
**Term of patent 14 years**
**(Cl. D86—10)**



The ornamental design for a cosmetic color selection stand, as shown.

---

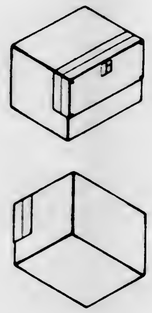
**143,182**
**DESIGN FOR A COMBINATION MAGNETIC RECORDER AND REPRODUCER OR SIMILAR ARTICLE**
**Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois**
**Application August 26, 1944, Serial No. 115,055**
**Term of patent 14 years**
**(Cl. D26—5)**



The ornamental design for a combination magnetic recorder and reproducer or similar article, as shown.



**143,183**
**DESIGN FOR A MAGNETIC RECORDER OR SIMILAR ARTICLE**
**Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois**
**Application August 26, 1944, Serial No. 115,056**
**Term of patent 14 years**
**(Cl. D26—5)**



The ornamental design for a magnetic recorder or similar article, as shown.

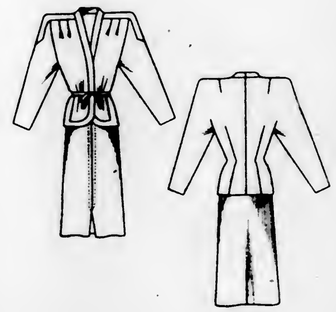
---

**143,184**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application September 11, 1945, Serial No. 122,007**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

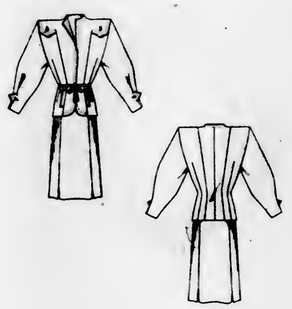
**143,185**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application September 11, 1945, Serial No. 122,006**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

---

**143,186**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application October 15, 1945, Serial No. 122,847**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

# DESIGNS

DECEMBER 18, 1945

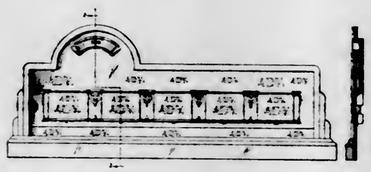
**143,179**
**DESIGN FOR A HAND LUGGAGE CASE**
**George G. Barton, Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin**
**Application October 6, 1944, Serial No. 115,652**
**Term of patent 14 years**
**(Cl. D87—5)**



The ornamental design for a hand luggage case, as shown.

---

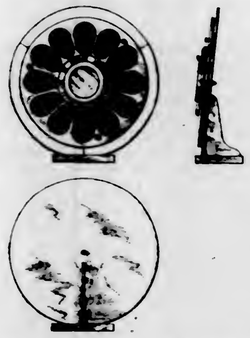
**143,180**
**DESIGN FOR AN ADVERTISING SIGN BOARD**
**Joseph S. Batt, University City, Mo.**
**Application July 27, 1945, Serial No. 120,980**
**Term of patent 14 years**
**(Cl. D1—12)**



The ornamental design for an advertising sign board, substantially as shown.



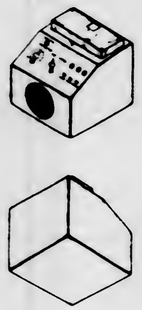
**143,181**
**DESIGN FOR A COSMETIC COLOR SELECTION STAND**
**Jules Brodeur, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware**
**Application August 1, 1945, Serial No. 121,124**
**Term of patent 14 years**
**(Cl. D66—10)**



The ornamental design for a cosmetic color selection stand, as shown.

---

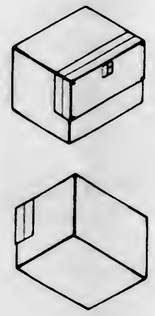
**143,182**
**DESIGN FOR A COMBINATION MAGNETIC RECORDER AND REPRODUCER OR SIMILAR ARTICLE**
**Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois**
**Application August 26, 1944, Serial No. 115,055**
**Term of patent 14 years**
**(Cl. D26—5)**



The ornamental design for a combination magnetic recorder and reproducer or similar article, as shown.



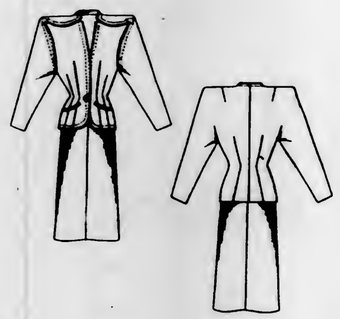
**143,183**
**DESIGN FOR A MAGNETIC RECORDER OR SIMILAR ARTICLE**
**Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation, Chicago, Ill., a corporation of Illinois**
**Application August 26, 1944, Serial No. 115,056**
**Term of patent 14 years**
**(Cl. D26—5)**



The ornamental design for a magnetic recorder or similar article, as shown.

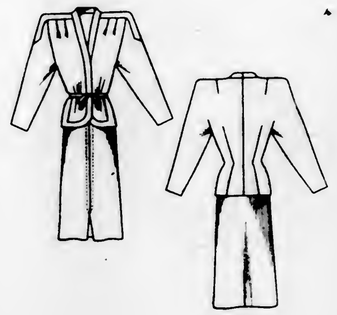
---

**143,184**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application September 11, 1945, Serial No. 122,007**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

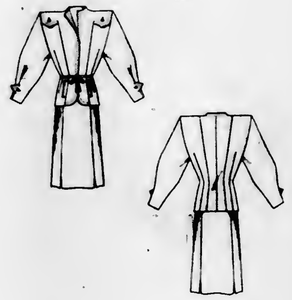
**143,185**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application September 11, 1945, Serial No. 122,008**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

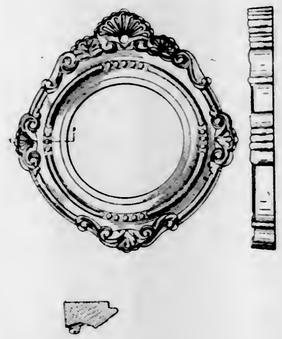
---

**143,186**
**DESIGN FOR A SUIT**
**Sidney Cohen, New York, N. Y.**
**Application October 15, 1945, Serial No. 122,847**
**Term of patent 3½ years**
**(Cl. D3—4)**



The ornamental design for a suit, substantially as shown.

143,187
**DESIGN FOR A PICTURE FRAME**
Sara Colef, Benton Harbor, Mich., assignor to Benton Glass Company, Benton Harbor, Mich., a corporation of Michigan
Application July 23, 1945, Serial No. 120,890
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

143,188
**DESIGN FOR A PICTURE FRAME**
Sara Colef, Benton Harbor, Mich., assignor to Benton Glass Company, Benton Harbor, Mich., a corporation of Michigan
Application July 23, 1945, Serial No. 120,891
Term of patent 7 years
(Cl. D29—20)



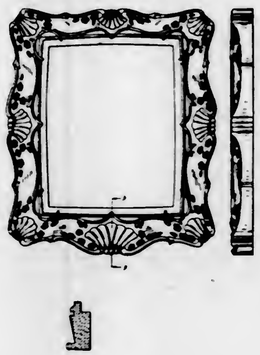
The ornamental design for a picture frame, as shown.

143,189
**DESIGN FOR A PICTURE FRAME**
Sara Colef, Benton Harbor, Mich., assignor to Benton Glass Company, Benton Harbor, Mich., a corporation of Michigan
Application July 23, 1945, Serial No. 120,892
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

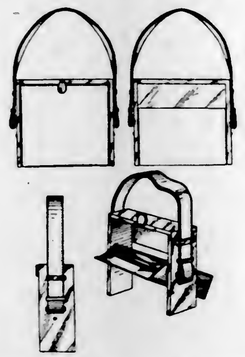
143,190
**DESIGN FOR A PICTURE FRAME**
Sara Colef, Benton Harbor, Mich., assignor to Benton Glass Company, Benton Harbor, Mich., a corporation of Michigan
Application July 23, 1945, Serial No. 120,893
Term of patent 7 years
(Cl. D29—20)



The ornamental design for a picture frame, as shown.

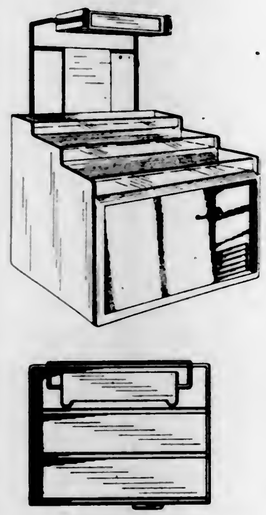


143,191
**DESIGN FOR A HANDBAG**
Marie M. Deutz, New York, N. Y.
Application September 24, 1945, Serial No. 122,284
Term of patent 3½ years
(Cl. D87—3)



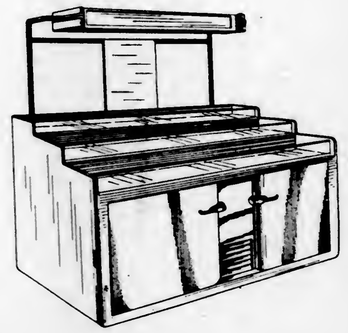
The ornamental design for a handbag, substantially as shown.

143,192
**DESIGN FOR A DISPLAY CABINET**
Martin M. Drogin, Philadelphia, Pa., assignor to Freshmaster Corporation, Newark, N. J., a corporation of New Jersey
Application June 3, 1944, Serial No. 113,846
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a display cabinet, as shown.

143,193
**DESIGN FOR A DISPLAY CABINET**
Martin M. Drogin, Philadelphia, Pa., assignor to Freshmaster Corporation, Newark, N. J., a corporation of New Jersey
Application June 3, 1944, Serial No. 113,847
Term of patent 14 years
(Cl. D80—11)





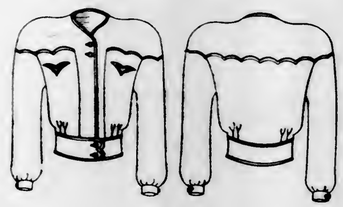
The ornamental design for a display cabinet, as shown.

143,194
**DESIGN FOR A JACKET**
Nathan Finkelstein, New York, N. Y.
Application October 26, 1945, Serial No. 123,187
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

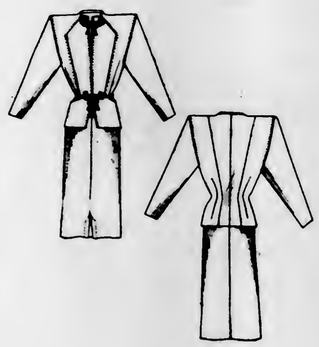
143,195
**DESIGN FOR A JACKET**
Nathan Finkelstein, New York, N. Y.
Application October 26, 1945, Serial No. 123,188
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

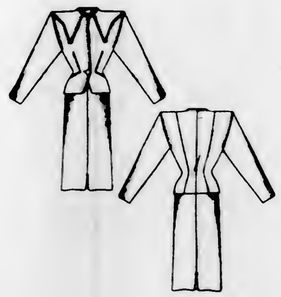
---

143,196
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 18, 1945, Serial No. 122,157
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

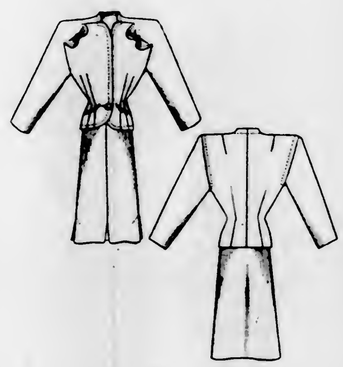
143,197
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 1, 1945, Serial No. 121,787
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

---

143,198
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 6, 1945, Serial No. 121,860
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.



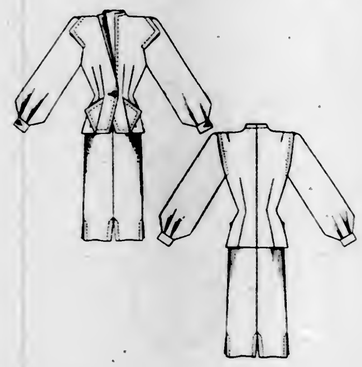
143,199
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 8, 1945, Serial No. 121,928
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

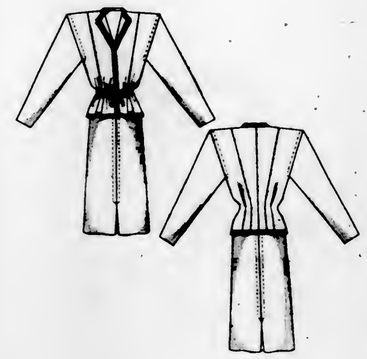
---

143,200
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 12, 1945, Serial No. 122,032
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

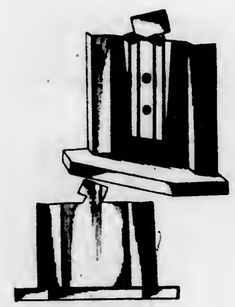
143,201
**DESIGN FOR A SUIT**
Jules Freedman, New York, N. Y.
Application September 12, 1945, Serial No. 122,033
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

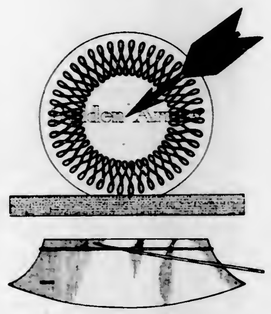
---

143,202
**DESIGN FOR A DISPLAY STAND OR SIMILAR ARTICLE**
Fred Frederics, New York, N. Y.
Application July 19, 1945, Serial No. 120,807
Term of patent 7 years
(Cl. D80—9)



The ornamental design for a display stand or similar article, substantially as shown and described.

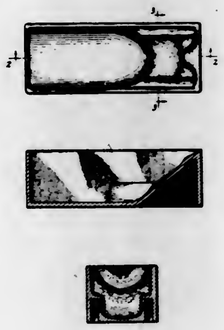
**143,203**
**DESIGN FOR A DISPLAY STAND OR SIMILAR ARTICLE**
**Fred Frederics, New York, N. Y.**
**Application July 27, 1945, Serial No. 121,009**
**Term of patent 7 years**
**(Cl. D80—9)**



The ornamental design for a display stand or similar article, substantially as shown and described.

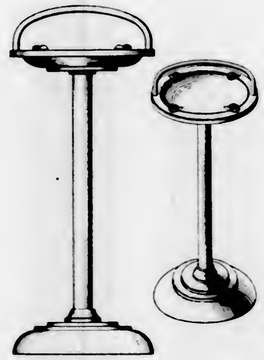
---

**143,204**
**DESIGN FOR A BATH TUB**
**Ethel L. Fleischhauer, La Fayette, Ind.**
**Application May 25, 1945, Serial No. 119,730**
**Term of patent 7 years**
**(Cl. D4—4)**



The ornamental design for a bath tub, as shown.

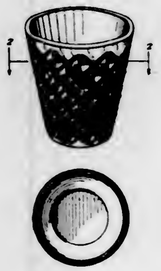
**143,205**
**DESIGN FOR A SMOKER'S STAND**
**Otis C. Funderburk, Weston, Mass.**
**Application June 16, 1945, Serial No. 120,158**
**Term of patent 14 years**
**(Cl. D85—2)**



The ornamental design for a smoker's stand, substantially as shown.

---

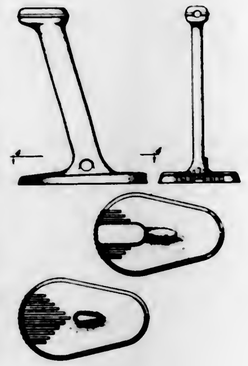
**143,206**
**DESIGN FOR A TUMBLER**
**Samuel L. Gerson, Millville, N. J.**
**Application July 24, 1945, Serial No. 120,925**
**Term of patent 7 years**
**(Cl. D36—8)**



The ornamental design for a tumbler, substantially as shown.



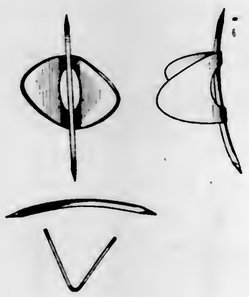
**143,207**
**DESIGN FOR A PEDESTAL FOR STAMPING MACHINE**
**Clarence Kirk Greene, North Hollywood, Calif., assignor to Trippiett & Barton Inc., Burbank, Calif., a corporation of California**
**Application August 28, 1944, Serial No. 115,066**
**Term of patent 14 years**
**(Cl. D55—1)**



The ornamental design for a pedestal for stamping machine, as shown.

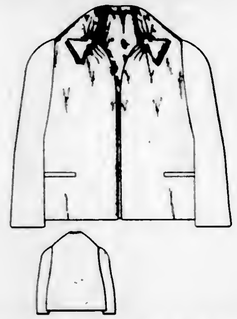
---

**143,208**
**DESIGN FOR A TWO-PIECE HAIR ORNAMENT**
**Joseph Halpern, New York, N. Y.**
**Application September 18, 1945, Serial No. 122,159**
**Term of patent 7 years**
**(Cl. D86—10)**



The ornamental design for a two-piece hair ornament, substantially as shown.

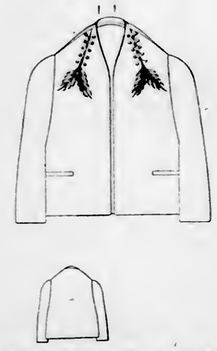
**143,209**
**DESIGN FOR A COAT OR SIMILAR ARTICLE**
**Sol Karp, New York, N. Y.**
**Application April 12, 1945, Serial No. 118,955**
**Term of patent 7 years**
**(Cl. D3—4)**



The ornamental design for a coat or similar article, as shown.

---

**143,210**
**DESIGN FOR A COAT OR SIMILAR ARTICLE**
**Sol Karp, New York, N. Y.**
**Application April 12, 1945, Serial No. 118,956**
**Term of patent 7 years**
**(Cl. D3—4)**



The ornamental design for a coat or similar article, as shown.

---

**143,211**
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
**Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York**
**Application July 21, 1945, Serial No. 120,841**
**Term of patent 7 years**
**(Cl. D45—19)**



The ornamental design for a brooch or similar article, substantially as shown.

143,212
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,842
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,213
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,844
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,214
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,846
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

143,215
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,847
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,216
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,848
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,217
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,849
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.



143,218
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,850
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,219
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,851
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,220
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,852
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

143,221
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,853
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,222
**DESIGN FOR A BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,855
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

---

143,223
**DESIGN FOR A SEPARABLE BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,845
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a separable brooch or similar article, substantially as shown.

143,224
**DESIGN FOR A SEPARABLE BROOCH OR SIMILAR ARTICLE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,854
Term of patent 7 years
(Cl. D45—19)



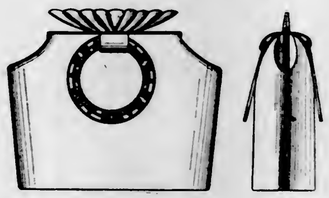
The ornamental design for a separable brooch or similar article, substantially as shown.

143,225
**DESIGN FOR AN EARRING**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 21, 1945, Serial No. 120,843
Term of patent 7 years
(Cl. D45—19)



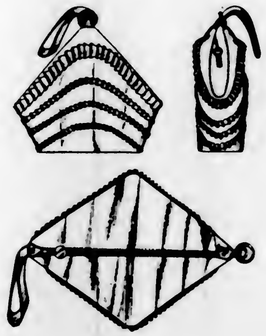
The ornamental design for an earring, substantially as shown.

143,226
**DESIGN FOR A HANDBAG**
Louis Kaufman, New York, N. Y.
Application September 24, 1945, Serial No. 122,300
Term of patent 3½ years
(Cl. D87—3)



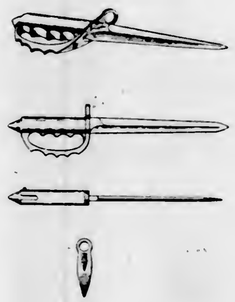
The ornamental design for a handbag, substantially as shown and described.

143,227
**DESIGN FOR A HANDBAG**
Louis Kaufman, New York, N. Y.
Application September 24, 1945, Serial No. 122,301
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown and described.

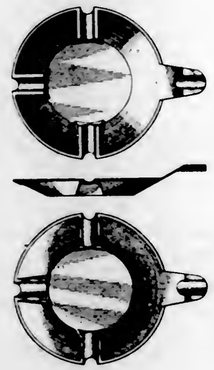
143,228
**DESIGN FOR A COMBINATION UTILITY KNIFE AND BAYONET**
Jack Levering, Tulsa, Okla.
Application February 5, 1944, Serial No. 112,461
Term of patent 14 years
(Cl. D22—3)



The ornamental design for a combination utility knife and bayonet, as shown.

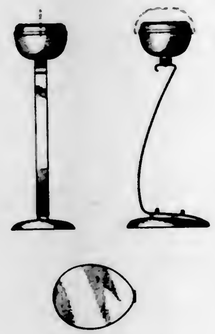


143,229
**DESIGN FOR A TIP LID FOR SMOKER'S STAND**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,567
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a tip lid for smoker's stand, substantially as shown.

143,230
**DESIGN FOR A SMOKER'S STAND**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,570
Term of patent 14 years
(Cl. D85—2)



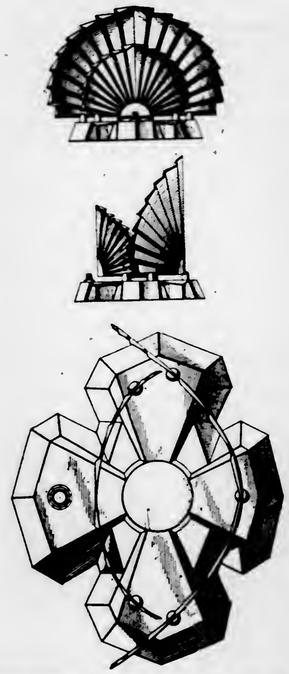
The ornamental design for a smoker's stand, substantially as shown and described.

143,231
**DESIGN FOR AN URN**
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 7, 1945, Serial No. 120,568
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for an urn, substantially as shown.

143,232
**DESIGN FOR A LAMP OR SIMILAR ARTICLE**
Willis Harold Miller, Dallas, Tex.
Application August 19, 1944, Serial No. 114,946
Term of patent 14 years
(Cl. 48—20)



The ornamental design for a lamp or similar article, as shown.

**143,233**
**DESIGN FOR A COMBINED BOTTLE OPENER AND CUTTER OR SIMILAR ARTICLE**
**James Gordon Moore, Los Angeles, Calif.**
**Application July 3, 1945, Serial No. 120,495**
**Term of patent 7 years**
**(Cl. D22—2)**



The ornamental design for a combined bottle opener and cutter or similar article, as shown.

---

**143,234**
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
**Frank Morrow, Johnston, R. I.**
**Application July 31, 1945, Serial No. 121,112**
**Term of patent 3½ years**
**(Cl. D45—19)**





The ornamental design for a jewelry pin or similar article, substantially as shown.

**143,235**
**DESIGN FOR AN EARRING**
**Frank Morrow, Johnston, R. I.**
**Application July 31, 1945, Serial No. 121,121**
**Term of patent 3½ years**
**(Cl. D45—9)**

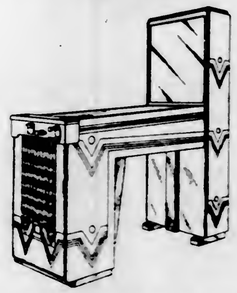




The ornamental design for an earring, substantially as shown.

---

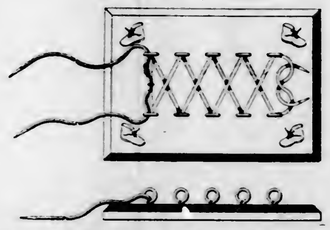
**143,236**
**DESIGN FOR A GAME CABINET**
**Nels A. Nelson, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.**
**Application July 19, 1945, Serial No. 120,810**
**Term of patent 14 years**
**(Cl. D34—5)**



The ornamental design for a game cabinet, as shown and described.

---

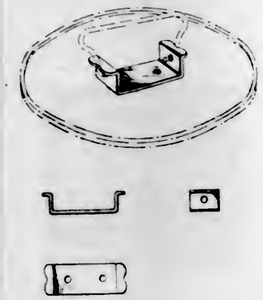
**143,237**
**DESIGN FOR A DEVICE FOR TEACHING LACING**
**Thomas A. Pares, Milwaukee, Wis.**
**Application July 23, 1945, Serial No. 120,882**
**Term of patent 14 years**
**(Cl. D1—12)**



The ornamental design for a device for teaching lacing, as shown.



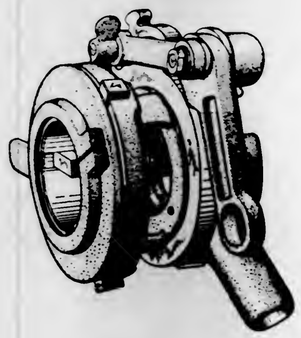
**143,238**
**DESIGN FOR A HANDLE COVER BRACKET**
**Frederick F. Pfefferkorn, Washington, D. C.**
**Application December 27, 1944, Serial No. 117,107**
**Term of patent 3½ years**
**(Cl. D68—26)**

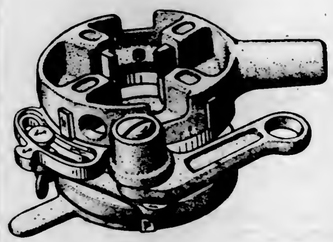


The ornamental design for a handle cover bracket, as shown and described.

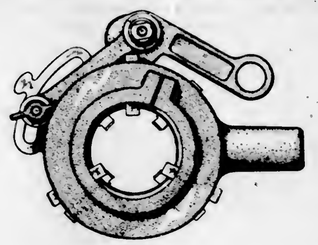
---

**143,239**
**DESIGN FOR A PIPE THREADING TOOL**
**William A. Phillis, Warren, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio**
**Application June 30, 1945, Serial No. 120,438**
**Term of patent 14 years**
**(Cl. D54—13)**





**143,239—Continued**



The ornamental design for a pipe threading tool, as shown.

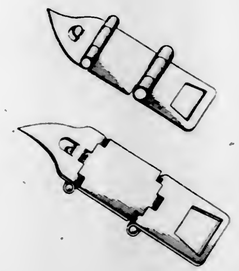
---

**143,240**
**DESIGN FOR A DECK OF PLAYING CARDS**
**Amelia Poggi, Doris Jordan, and Alma Chuka, Hicksville, N. Y.**
**Application July 14, 1945, Serial No. 120,695**
**Term of patent 7 years**
**(Cl. D34—13)**



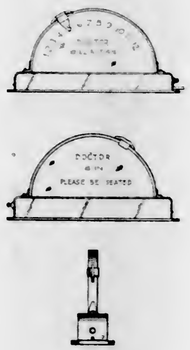
The ornamental design for a deck of playing cards, substantially as shown and described.

143,241
**DESIGN FOR A FOLDING COMBINATION BOTTLE AND CAN OPENER**
Vernon C. Porter, New York, N. Y.
Application April 2, 1945, Serial No. 118,828
Term of patent 14 years
(Cl. D22—2)



The ornamental design for a folding combination bottle and can opener, as shown.

143,242
**DESIGN FOR AN ILLUMINABLE DISPLAY DEVICE**
Frederic Carl Reinshield, Andover, Mass., assignor to Analyte Instruments, Inc., Bloomfield, N. J., a corporation of New Jersey
Application February 15, 1945, Serial No. 117,984
Term of patent 14 years
(Cl. D1—12)




The ornamental design for an illuminable display device, as shown.

143,243
**DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE**
Anne Samstag, Bronxville, N. Y.
Application August 3, 1945, Serial No. 121,200
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar article, substantially as shown and described.

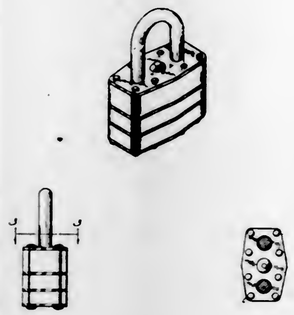
143,244
**DESIGN FOR A FABRIC**
Robert Solomon, New York, N. Y., assignor to Bernard Kavaler, New York, N. Y., doing business as Bernard Kavaler Co.
Application July 25, 1945, Serial No. 120,939
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, substantially as shown.

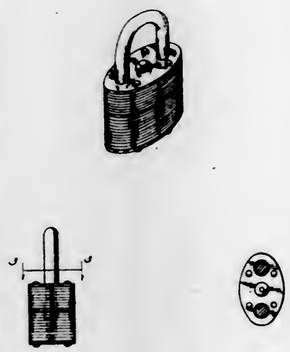


143,245
**DESIGN FOR A PADLOCK**
Harry E. Soref, Milwaukee, Wis., assignor to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 14, 1945, Serial No. 118,989
Term of patent 14 years
(Cl. D50—8)



The ornamental design for a padlock, substantially as shown and described.

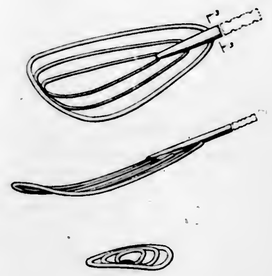
143,246
**DESIGN FOR A PADLOCK**
Harry E. Soref, Milwaukee, Wis., assignor to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 17, 1945, Serial No. 119,053
Term of patent 14 years
(Cl. D50—8)



The ornamental design for a padlock, substantially as shown and described.

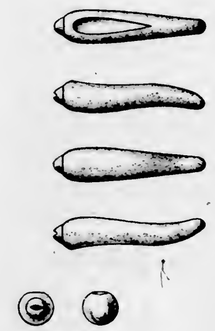


143,247
**DESIGN FOR A WHIPPER BLADE OR SIMILAR ARTICLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application February 15, 1945, Serial No. 117,962
Term of patent 14 years
(Cl. D44—29)



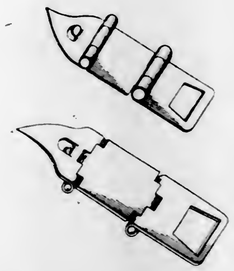
The ornamental design for a whipper blade or similar article, substantially as shown.

143,248
**DESIGN FOR A KITCHEN UTENSIL HANDLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application March 9, 1945, Serial No. 118,375
Term of patent 14 years
(Cl. D44—29)



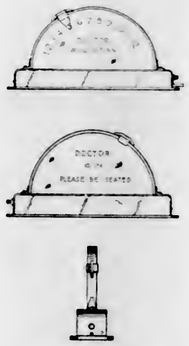
The ornamental design for a kitchen utensil handle, substantially as shown.

143,241
**DESIGN FOR A FOLDING COMBINATION BOTTLE AND CAN OPENER**
Vernon C. Porter, New York, N. Y.
Application April 2, 1945, Serial No. 118,828
Term of patent 14 years
(Cl. D22—2)



The ornamental design for a folding combination bottle and can opener, as shown.

143,242
**DESIGN FOR AN ILLUMINABLE DISPLAY DEVICE**
Frederic Carl Reinshield, Andover, Mass., assignor to Analyte Instruments, Inc., Bloomfield, N. J., a corporation of New Jersey
Application February 15, 1945, Serial No. 117,984
Term of patent 14 years
(Cl. D1—12)



The ornamental design for an illuminable display device, as shown.

143,243
**DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE**
Anne Samstag, Bronxville, N. Y.
Application August 3, 1945, Serial No. 121,200
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar article, substantially as shown and described.

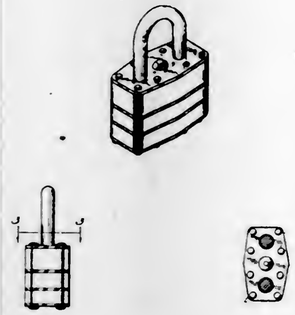
143,244
**DESIGN FOR A FABRIC**
Robert Solomon, New York, N. Y., assignor to Bernard Kavaler, New York, N. Y., doing business as Bernard Kavaler Co.
Application July 25, 1945, Serial No. 120,939
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, substantially as shown.

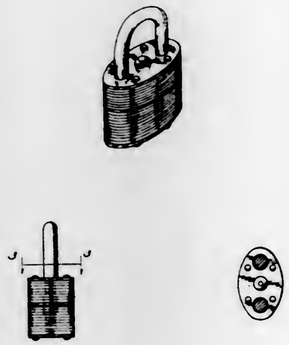


143,245
**DESIGN FOR A PADLOCK**
Harry E. Soref, Milwaukee, Wis., assignor to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 14, 1945, Serial No. 118,989
Term of patent 14 years
(Cl. D50—8)



The ornamental design for a padlock, substantially as shown and described.

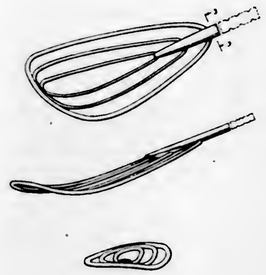
143,246
**DESIGN FOR A PADLOCK**
Harry E. Soref, Milwaukee, Wis., assignor to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 17, 1945, Serial No. 119,053
Term of patent 14 years
(Cl. D50—8)



The ornamental design for a padlock, substantially as shown and described.

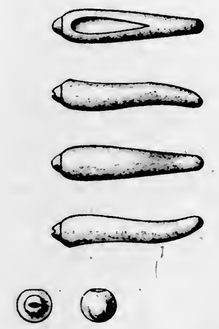


143,247
**DESIGN FOR A WHIPPER BLADE OR SIMILAR ARTICLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application February 15, 1945, Serial No. 117,962
Term of patent 14 years
(Cl. D44—29)



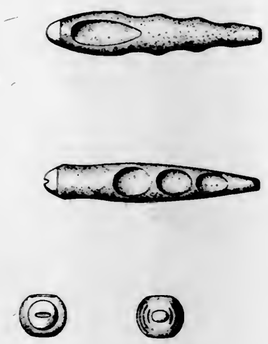
The ornamental design for a whipper blade or similar article, substantially as shown.

143,248
**DESIGN FOR A KITCHEN UTENSIL HANDLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application March 9, 1945, Serial No. 118,375
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a kitchen utensil handle, substantially as shown.

143,249
**DESIGN FOR A KITCHEN UTENSIL HANDLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application April 9, 1945, Serial No. 118,901
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a kitchen utensil handle, substantially as shown.

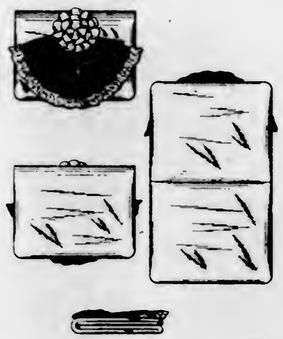
---

143,250
**DESIGN FOR A KITCHEN UTENSIL HANDLE**
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application April 9, 1945, Serial No. 118,904
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a kitchen utensil handle, substantially as shown.

143,251
**DESIGN FOR A HANDKERCHIEF CASE**
Jean E. Vivaudou, New York, N. Y.
Application August 18, 1945, Serial No. 121,482
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a handkerchief case, as shown.

---

143,252
**DESIGN FOR A SACHET BAG**
Jean E. Vivaudou, New York, N. Y.
Application August 18, 1945, Serial No. 121,485
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a sachet bag, as shown.



143,253
**DESIGN FOR A SACHET BAG**
Jean E. Vivaudou, New York, N. Y.
Application September 7, 1945, Serial No. 121,904
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a sachet bag, as shown.

---

143,254
**DESIGN FOR A SACHET CASE**
Jean E. Vivaudou, New York, N. Y.
Application August 18, 1945, Serial No. 121,486
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a sachet case, as shown.

143,255
**DESIGN FOR A HERB BAG**
Jean E. Vivaudou, New York, N. Y.
Application September 11, 1945, Serial No. 122,015
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a herb bag, as shown.

---

143,256
**DESIGN FOR A VEHICLE BODY**
George W. Walker, Detroit, Mich., assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio
Application June 30, 1945, Serial No. 120,432
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a vehicle body, as shown and described.

Patents Nos. 2,391,377 to 2,391,855

THE

# OFFICIAL GAZETTE

OF THE

## United States Patent Office

Vol. 581—No. 4 TUESDAY, DECEMBER, 25, 1945 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

| | Page |
|---|---|
| ISSUE OF DECEMBER 25, 1945 | 509 |
| NOTICES OF CANCELLATION | 509 |
| INTERFERENCE NOTICE | 509 |
| ADJUDICATED PATENTS | 509 |
| APPLICATIONS UNDER EXAMINATION | 510 |
| DECISIONS OF THE U. S. COURTS— | |
| In re Normann et al | 511 |
| In re Cornell et al | 512 |
| In re Smith | 514 |
| DISCLAIMERS | 515 |
| PATENT SUITS | 515 |
| REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE | 516 |
| NOTICE | 519 |
| BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS | 520 |
| TRADE-MARKS PUBLISHED (75 APPLICATIONS) | 527 |
| TRADE-MARK REGISTRATIONS GRANTED | 536 |
| TRADE-MARK REGISTRATIONS RENEWED | 538 |
| REISSUES | 541 |
| PLANT PATENTS | 541 |
| PATENTS GRANTED | 542 |
| DESIGNS | 656 |

### December 25, 1945

| | | | | |
|---|---|---|---|---|
| Trade-Marks | 53—No. | 418,441 to No. | 418,493 | inclusive. |
| T. M. Renewals | 80 | | | |
| Reissues | 2—No. | 22,704 to No. | 22,705, | inclusive. |
| Plant Patents | 2—No. | 664 to No. | 665, | inclusive. |
| Patents | 479—No. | 2,391,377 to No. | 2,391,855, | inclusive. |
| Designs | 129—No. | 143,257 to No. | 143,385, | inclusive. |
| Total | 744 | | | |

### Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Nov. 19, 1945.*

***Kalpul, Inc., its assigns or legal representatives, take notice:***

A petition for cancellation having been filed in this Office by Jane Wharton Mitten, 626 Broadway, Cincinnati, Ohio, to effect the cancellation of trade-mark registration of Kalpul, Inc., 1216 N. E. 2nd Ave., Miami, Fla., No. 339,096, dated September 22, 1936, and the notice of such proceeding sent by registered mail to the said Kalpul, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kalpul, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Richmond, Va., Nov. 20, 1945.*

***Maison Andre, Inc., its assigns or legal representatives, take notice:***

A petition for cancellation having been filed in this Office by Maurice Handman, 100 Varick Street, New York, N. Y., to effect the cancellation of trade-mark registration of Maison Andre, Inc., 117 North Howard Street, Baltimore, Maryland, No. 323,017, dated March 26, 1935, and the notice of such proceeding sent by registered mail to the said Maison Andre, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Maison Andre, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Richmond, Va., Dec. 3, 1945.*

*Wm. L. Bristow Laboratories, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by John C. Zobrist, 914 Walnut Road, Charleston, W. Va., to effect the cancellation of trade-mark registration of Wm. L. Bristow Laboratories, 33 California Street, San Francisco, Calif., No. 330,265, dated November 26, 1935, and the notice of such proceeding sent by registered mail to the said Wm. L. Bristow Laboratories at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Wm. L. Bristow Laboratories, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

### Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., Nov. 16, 1945.*

***Blue-Belle Dress Co., its assigns or legal representatives, take notice:***

An interference having been declared by this Office between the application of Blue Bell, Inc., Jefferson Bldg., Elm and Market Sts., Greensboro, N. C., for registration of a trade-mark and trade-mark registered January 8, 1929, No. 251,493, to Blue-Belle Dress Co., 248 West 35th St., New York, N. Y., and the notice of such proceeding sent by registered mail to said Blue-Belle Dress Co., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Blue-Belle Dress Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
*First Assistant Commissioner.*

### Adjudicated Patents

(D. C. N. Y.) Cisin patent, No. 2,086,256, for an amplifying circuit, claims 3, 4, 5, 11, 12, and 13 *Held* invalid. *Engineering Development Laboratories* v. *Radio Corp. of America*, 62 F. Supp. 464; 66 USPQ V, Report of Sept. 8, 1945.

(D. C. Ohio) Kinninger patent, No. 2,245,559, for a tie used for holding form boards for concrete molds, claims 8, 20, 21, and 22 *Held* invalid. *Kinninger* v. *Sam W. Emerson Co.*, 62 F. Supp. 545; 66 USPQ 405.

## Condition of Applications Under Examination at Close of Business December 7, 1945

(Total number of applications awaiting action, excluding Trade-Mark Division, 84,457; Trade-Mark Division, 3,134. Oldest new case, November 6, 1944; oldest amended, November 21, 1944.)
(The dates given are 1945 except where † indicates 1944.)

| Divisions, Examiners, and Subjects of Inventions | Oldest new application and oldest action by applicant awaiting office action: New | Amended | No. of applications awaiting action |
|---|---|---|---|
| 1. TUCKER, M. W., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage. | Jan. 8 | Jan. 12 | 1392 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering. | †Nov. 6 | †Nov. 25 | 1625 |
| 3. WOLFFE, S., Metal Founding; Metallurgy; Metal Treatment; Compositions (part) | Jan. 31 | Jan. 23 | 1504 |
| 4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting. | Apr. 12 | May 7 | 1365 |
| 5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps. | †Nov. 22 | †Dec. 1 | 2246 |
| 6. GENIESSE, E. W., Carbon Chemistry (part) | Feb. 9 | Mar. 10 | 1447 |
| 7. JARBOE, C. G., Optics, Photography | June 6 | June 8 | 1287 |
| 8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets | Apr. 10 | Apr. 27 | 1480 |
| 9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors | †Nov. 8 | †Dec. 14 | 1519 |
| 11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 18 | June 20 | 422 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control | †Dec. 5 | †Dec. 6 | 1475 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Metal Working (part); Needle and Pin Making; Turning | Feb. 22 | Apr. 4 | 1263 |
| 14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery | Apr. 11 | Apr. 9 | 1000 |
| 15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics. | May 15 | May 8 | 1039 |
| 16. SPENCER, C. J., Telegraphy; Telephony | Apr. 10 | Apr. 10 | 993 |
| 17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Jan. 22 | Jan. 8 | 756 |
| 18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines. | Feb. 28 | Feb. 22 | 1382 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | Mar. 31 | Apr. 2 | 900 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes. | Mar. 21 | Mar. 20 | 1039 |
| 21. THOMPSON, T. J., Textiles | May 4 | June 9 | 561 |
| 22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance | Feb. 24 | Mar. 26 | 1426 |
| 23. LEWIS, J. B., Cash Registers; Calculators (part) | Feb. 8 | Feb. 26 | 174 |
| 24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines | Apr. 9 | Apr. 5 | 983 |
| 25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | Feb. 16 | Mar. 6 | 1186 |
| 26. YOUNG, R. R., Electricity—Generation and Motive Power | †Dec. 26 | †Dec. 26 | 1510 |
| 27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus. | Jan. 20 | †Dec. 11 | 1331 |
| 28. SOLYOM, E. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons | Jan. 5 | Jan. 3 | 1164 |
| 29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools. | Jan. 9 | Jan. 10 | 1431 |
| 30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices. | Mar. 2 | Feb. 24 | 1468 |
| 31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils | July 9 | July 6 | 908 |
| 32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring. | Mar. 21 | Apr. 27 | 1160 |
| 33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus. | Feb. 21 | Feb. 28 | 1423 |
| 34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators | Feb. 19 | Feb. 22 | 812 |
| 35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making. | Feb. 12 | Feb. 10 | 1229 |
| 36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring | Mar. 8 | Mar. 14 | 954 |
| 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 20 | Jan. 9 | 1309 |
| 38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation | Feb. 23 | Feb. 12 | 1113 |
| 39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution | Jan. 26 | Jan. 26 | 1512 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | Feb. 18 | Mar. 6 | 1731 |
| 41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus. | †Dec. 29 | Jan. 9 | 709 |
| 42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters | Apr. 11 | Mar. 27 | 769 |
| 43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds. | Jan. 18 | Feb. 1 | 878 |
| 44. HARVEY, L. P., Refrigeration; Preserving | †Nov. 9 | †Nov. 21 | 797 |
| 45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors. | Feb. 20 | Feb. 28 | 1553 |
| 46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus. | Jan. 15 | Feb. 19 | 944 |
| 47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part) | Apr. 26 | May 4 | 1480 |
| 48. ROEPKE, O. B., Electricity, General Applications; Electric Igniters | Jan. 23 | Jan. 13 | 1477 |
| 49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification. | Apr. 7 | Apr. 12 | 860 |
| 50. LEVIN, SAMUEL, Synthetic Resins | Mar. 22 | Mar. 22 | 1704 |
| 51. CROCKER, A. W., Radiant Energy; Modulators | Feb. 15 | Feb. 5 | 2414 |
| 52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits. | Jan. 5 | Feb. 5 | 2002 |
| 53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable. | †Nov. 11 | †Nov. 20 | 1709 |
| 54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications. | †Dec. 13 | †Dec. 18 | 1621 |
| 55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part) | Mar. 15 | Mar. 21 | 1099 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making | Jan. 18 | Jan. 5 | 1203 |
| 57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | †Dec. 16 | †Dec. 28 | 1420 |
| 58. DOWELL, E. F., Abreading; Bottles and Jars; Stone Working; Making Metal Tools and Implements | Apr. 21 | May 26 | 885 |
| 59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part) | †Dec. 28 | Jan. 6 | 1602 |
| 60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants. | Jan. 29 | Jan. 29 | 1387 |
| 61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships. | Feb. 28 | Mar. 9 | 1424 |
| 62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors | †Dec. 18 | †Dec. 22 | 2199 |
| 63. WINKLSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats. | Jan. 26 | Feb. 9 | 1735 |
| 64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel | July 10 | July 10 | 920 |
| 65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers). | †Dec. 15 | †Dec. 13 | 1603 |
| Trade-Marks: RICHMOND, F. A. | Aug. 1 | Sept. 21 | 3134 |
| Designs: KALUPY, H. H. | Aug. 2 | Sept. 21 | 2574 |



# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. C. Mfg. Co.: *See*—
Aircraft Components, Inc.

Aircraft Components, Inc., Van Nuys, Calif., now by change of name A. C. Mfg. Co. Carts for garden tools. Serial No. 473,494; Dec. 25. Class 19.

Allied Mills, Inc., Chicago, Ill. Dog food. Serial No. 477,391; Dec. 25. Class 46.

Amenta, A., & Co.: *See*—
Amenta, Angelo.

Amenta, Angelo, trading as A. Amenta & Co., Johnstown, Pa. Preparation and beautifier for the hair and remover of loose dandruff from the scalp. Serial No. 476,312; Dec. 25. Class 6.

Anderson, Wm. Textile Mfg. Co., New York, N. Y. Printed cotton piece goods. Serial No. 473,209; Dec. 25. Class 42.

Armand Company, The, Des Moines, Iowa. Lipstick, rouge, face cream, etc. Serial No. 483,130; Dec. 25. Class 6.

Arrow Engineering & Chemical Co., Inc., Flint, Mich. Wrapping machine cleaning preparation, floor scrubbing compound, powdered hand soap, etc. Serial Nos. 485,806–7; Dec. 25. Class 4.

Art-Craft Briar Pipe Co., Brooklyn, N. Y. Smoking pipes. Serial No. 487,757; Dec. 25. Class 8.

Associated Products, Inc., Chicago, Ill. Face powder, face makeup, creams, etc. Serial No. 487,409; Dec. 25. Class 6.

Augen, Harry, doing business as Graphited Lubricants Co., Brooklyn, N. Y. Ignition contact points for automobile engine distributors. Serial No. 475,038; Dec. 25. Class 21.

Basford, H. R., Co., San Francisco, Calif. Wrenches and pliers. Serial No. 484,388; Dec. 25. Class 23.

Beater Products Co., Nashville, Tenn. Powdered seasoning for popcorn. Serial No. 487,411; Dec. 25. Class 46.

Brown, Arthur, New York, N. Y. Mirrored picture frames, mirrored bars, mirrored show cases. Serial No. 489,039; Dec. 25. Class 32.

Burke & James, Inc., Chicago, Ill. Photographic cameras and photographic enlargers. Serial No. 488,186; Dec. 25. Class 26.

Chatham Manufacturing Company, Elkin, N. C. Blankets. Serial No. 488,450; Dec. 25. Class 42.

Chicago Printed String Company, Chicago, Ill. Decorative wrapping paper, and enclosure cards. Serial No. 486,289; Dec. 25. Class 37.

Cinderella Foods, Dawson, Ga. Peanut butter. Serial No. 488,016; Dec. 25. Class 46.

Coggin, William B., Inc., Chicago, Ill. Toy coaster wagons. Serial No. 486,754; Dec. 25. Class 22.

Cohen, Benjamin L., Camden, N. J. Medicated skin cream. Serial No. 485,988; Dec. 25. Class 6.

Columbia Products Corporation, Brooklyn, N. Y. Powder puffs. Serial No. 487,242; Dec. 25. Class 29.

Commerce Manufacturing Company, Inc., Commerce, Ga. Overalls and men's pants. Serial No. 486,242; Dec. 25. Class 39.

Consolidated Cigar Corporation, New York, N. Y. Cigars. Serial No. 487,991; Dec. 25. Class 17.

Consolidated Cigar Corporation, New York, N. Y. Cigars. Serial No. 487,995; Dec. 25. Class 17.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial Nos. 487,175–6; Dec. 25. Class 6.

Diehl, Albert M., doing business as The Diehl Steel Company, Cincinnati, Ohio. High speed steel in bar form. Serial No. 486,029; Dec. 25. Class 14.

Diehl Steel Company, The: *See*—
Diehl, Albert M.

52 Association Inc., The, New York, N. Y. Monthly bulletin. Serial No. 486,361; Dec. 25. Class 38.

Fixaco Company, The, St. Louis, Mo. Confection to be used in the treatment of coughs, colds, sore throats and hoarseness. Serial No. 487,042; Dec. 25. Class 6.

Fowler, Frederick V., doing business as Stanton Supply Co., Boston, Mass. Wax applicators and polishers, and powder puffs and dusting mitts. Serial No. 476,429; Dec. 25. Class 29.

Friedberg, Leonard, New York, N. Y. Rouge, face powder, perfume, etc. Serial No. 486,407; Dec. 25. Class 6.

Gamble-Skogmo, Inc., Minneapolis, Minn. Floor coverings of the linoleum type. Serial No. 487,319; Dec. 25. Class 20.

Gardex, Inc., La Porte, Ind. Garden tools, specifically, hoes, etc. Serial No. 480,820; Dec. 25. Class 23.

Graphited Lubricants Co.: *See*—
Augen, Harry.

Hercules Powder Company, Wilmington, Del. Chemical for insecticidal uses. Serial No. 487,255; Dec. 25. Class 6.

Higgins Industries, Inc., New Orleans, La. Motor boats. Serial No. 487,047; Dec. 25. Class 19.

Industrial Surveys Company, Chicago, Ill. Market and consumer reports and analyses. Serial No. 478,125; Dec. 25. Class 38.

International Detrola Corporation: *See*—
Utah Radio Products Company, assignor.

Lane Tobacco, Ltd., New York, N. Y. Smoking tobacco. Serial No. 486,660; Dec. 25. Class 17.

Lane Tobacco, Ltd., New York, N. Y. Smoking tobacco. Serial No. 488,335; Dec. 25. Class 17.

Latrobe Electric Steel Company, Latrobe, Pa. Steel bars, billets and forgings. Serial No. 474,697; Dec. 25. Class 14.

Lehn & Fink Products Corporation, Bloomfield, N. J. Perfume. Serial No. 486,374; Dec. 25. Class 6.

Leichter, Emil, New York, N. Y. Watches. Serial No. 488,409; Dec. 25. Class 27.

Karl Baking Company, Newark, N. J. Cakes and macaroons. Serial No. 486,206; Dec. 25. Class 46.

Kawamura, A. S., doing business as Sun Marketing Co. Phoenix, Ariz. Fresh vegetables. Serial No. 484,260; Dec. 25. Class 46.

Keith Paper Company, Turners Falls, Mass. Writing and printing paper. Serial No. 487,084; Dec. 25. Class 37.

Kerr Dental Manufacturing Company, Detroit, Mich. Chemical lubricant. Serial No. 486,492; Dec. 25. Class 6.

Kindt-Collins Company, The, Lakewood, Ohio. Dowels used in patterns. Serial No. 472,386; Dec. 25. Class 13.

Kindt-Collins Company, The, Lakewood, Ohio. Dowels used in patterns. Serial No. 472,389; Dec. 25. Class 13.

Metal Cutting Tools and Manufacturing Company, Detroit, Mich. Machinery and tools and parts thereof. Serial No. 480,956; Dec. 25. Class 23.

Mimikos, Nicholas, Detroit, Mich. Perfume. Serial No. 485,957; Dec. 25. Class 6.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrasive in particulate or piece form. Serial No. 486,425; Dec. 25. Class 4.

Missing Link Key Shop, Inc., Miami, Fla. Keys, safes and locks. Serial No. 484,418; Dec. 25. Class 25.

Monroe Auto Equipment Company, Monroe, Mich. Spring suspended shock absorber controlled seats for motor vehicles. Serial No. 483,331; Dec. 25. Class 19.

Morris, W. C., Company, Van Nuys, Calif. Clothespins. Serial No. 481,025; Dec. 25. Class 24.

Novelty Jewelry Corporation, New York, N. Y. Simulated pearls. Serial No. 487,627; Dec. 25. Class 28.

Parfums Charbert, Inc., New York, N. Y. Shaving cream, shaving soap and toilet soap. Serial No. 487,381; Dec. 25. Class 4.

Parke, Davis & Company, Detroit, Mich. Pharmaceutical preparation. Serial No. 481,749; Dec. 25. Class 6.

Pessl, Helene, Inc., New York, N. Y. Face powder, rouge, lipstick, etc. Serial No. 486,436; Dec. 25. Class 6.

Robertson, Harry, Detroit, Mich. Tooth powder. Serial No. 484,704; Dec. 25. Class 6.

Rohr Aircraft Corporation, Chula Vista, Calif. Heat-resisting sealants. Serial No. 482,703; Dec. 25. Class 12.

Rohr Aircraft Corporation, Chula Vista, Calif. Sealing, gasketing and cushioning paste coating materials. Serial No. 482,704; Dec. 25. Class 12.

Sargeant Acnoid Pharmaceutical Co., Inc., East Orange, N. J. Ointment for the treatment of hemorrhoids. Serial No. 486,333; Dec. 25. Class 6.

Schweitzer, Peter, J., Inc., New York, N. Y. Writing paper. Serial No. 487,867; Dec. 25. Class 37.

Scott Company, The: *See*—
Scott, Damon S.

Scott, Damon S., doing business as The Scott Company, Montgomery, Ala. Hair dressing. Serial No. 487,101; Dec. 25. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. Serial No. 487,576; Dec. 25. Class 6.

Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 486,594; Dec. 25. Class 46.

Stanton Supply Co.: *See*—
Fowler, Frederick V.

Sun Marketing Co.: *See*—
Kawamura, A. S.

Tec Chemical Corporation, New York, N. Y. Proteolytic enzyme. Serial No. 483,558; Dec. 25. Class 6.

Towns, Broma C., Huttig, Ark. Preparation for the relief of chest colds, bronchial irritations and acute asthma. Serial No. 486,928; Dec. 25. Class 6.

Towns, Broma C., Huttig, Ark. Preparation for the relief of backache, sore muscles, headache, etc. Serial No. 486,929; Dec. 25. Class 6.

Turner & Seymour Mfg. Co., The, Torrington, Conn. Sash balances and parts thereof. Serial No. 488,133; Dec. 25. Class 13.
Unimex Company, New York, N. Y. Watches and parts thereof. Serial No. 487,448; Dec. 25. Class 27.
Universal Dental Company, Philadelphia, Pa. Dental impression trays. Serial No. 482,560; Dec. 25. Class 44.
Utah Radio Products Company, assignor to International Detroia Corporation, Detroit, Mich. Sound recording and sound recording equipment. Serial No. 483,749; Dec. 25. Class 21.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Whipping and emulsifying agent. Serial No. 487,061; Dec. 25. Class 46.
Walker Company, The, Middleboro, Mass. Electric switches. Serial No. 485,108; Dec. 25. Class 21.
Whiting Paper Company, Holyoke, Mass. Writing paper and envelopes. Serial No. 487,745; Dec. 25. Class 37.
Willard, Frances, Candy Company: *See*—
Young, Robert.
Young, Robert, doing business as Frances Willard Candy Company, Columbus, Ohio. Candy. Serial No. 486,187; Dec. 25. Class 46.

# LIST OF REGISTRANTS OF TRADE-MARKS

Allctcher, M., & Co., Lakewood, N. J. Toy dolls. 418,469; Dec. 25; Serial No. 484,005; published Oct. 16, 1945. Class 22.
Alexander Bros. Company, Savannah, Ga. Overalls. 207,302; renewed Dec. 29, 1945. O. G. Dec. 25. Class 39.
American Appliance Co., Cambridge, Mass., to Raytheon Manufacturing Company, Newton, Mass. Rectifier tubes. 208,886; renewed Feb. 9, 1946. O. G. Dec. 25. Class 21.
American Crayon Company, The, Sandusky, Ohio. Paper-wrapped pencils, crayons, chalk crayon, etc. 209,071; renewed Feb. 16, 1946. O. G. Dec. 25. Class 37.
American Radio Relay League, Inc., The, West Hartford, Conn. Monthly magazine. 418,484; Dec. 25; Serial No. 485,622; published Oct. 9, 1945. Class 38.
American Woolen Company, Boston, Mass., to American Woolen Company, Boston, Mass., and New York, N. Y. Woolen cloths. 50,166; re-renewed Mar. 6, 1946. O. G. Dec. 25. Class 42.
Arcade File Works, Anderson, Ind., to Nicholson File Company, Providence, R. I. Files and rasps. 49,460; re-renewed Feb. 6, 1946. O. G. Dec. 25. Class 23.
Artistic Dolls Studio: *See*—
Jedwabnik, Lydia.
Associated Distributors, Inc., Chicago, Ill., now by change of name Associated Products, Inc. Face powder, face make-up, lipstick, etc. 418,460; Dec. 25; Serial No. 480,641; published Oct. 2, 1945. Class 6.
Associated Products, Inc.: *See*—
Associated Distributors, Inc.
Charles of the Ritz, Inc.
Atlas Plywood Corporation, Boston, Mass. Packing cases, shipping cases, shooks, etc. 208,762; renewed Feb. 9, 1946. O. G. Dec. 25. Class 2.
Atlas Plywood Corporation, Boston, Mass. Plywood panels and dimension veneer. 209,884–5; renewed Mar. 2, 1946. O. G. Dec. 25. Class 12.
Atlas Plywood Corporation, Boston, Mass. Packing cases, shipping cases, shooks, etc. 209,886; renewed Mar. 2, 1946. O. G. Dec. 25. Class 2.
Atmos Products Co., The: *See*—
Atmos Products Corporation.
Atmos Products Corporation, to M. J. Stammelman, doing business as The Atmos Products Co., New York, N. Y. Humidifying chemical compound. 209,744; renewed Mar. 2, 1946. O. G. Dec. 25. Class 6.
Azumendi, Joaquin Iriendo, Ondarroa, Spain. Canned fish in olive oil, salt, vinegar and in pickle. 201,149; renewed July 21, 1945. O. G. Dec. 25. Class 46.
Bamberger, L, & Co., Newark, N. J. Household furniture. 209,440; renewed Feb. 23, 1946. O. G. Dec. 25. Class 32.
Bates Accounting Forms Co.: *See*—
Hirsch, Jacob.
Bear Brand Hosiery Co., Chicago, Ill., to Bear Brand Hosiery Co., Kankakee, and Chicago, Ill. Textile articles. 204,239; renewed Oct. 13, 1945. O. G. Dec. 25. Class 39.
Belgorugs Inc., New York, N. Y. Carpets and rugs. 418,488; Dec. 25; Serial No. 485,811; published Sept. 25, 1945. Class 42.
Big Stone Canning Co., to Big Stone Canning Co., Ortonville, Minn. Canned corn. 209,926; renewed Mar. 2, 1946. O. G. Dec. 25. Class 46.
Blue Ridge Textile Co. Inc., Bangor, Pa. Knitted piece goods. 418,470; Dec. 25; Serial No. 484,290; published Sept. 25, 1945. Class 42.
Brioschi, Achille & Co., Inc., New York, N. Y. Effervescent beverage salts. 209,297–8; renewed Feb. 23, 1946. O. G. Dec. 25. Class 6.
Brownley, Walter to Brownley's, Washington, D. C. Candy. 46,254; re-renewed Sept. 12, 1945. O. G. Dec. 25. Class 46.
Brownley's: *See*—
Brownley, Walter.
Burke and James, Inc., Chicago, Ill. Photographic cameras and photographic enlargers. 418,479; Dec. 25; Serial No. 484,933; published Oct. 16, 1945. Class 26.
Capudine Chemical Company, Raleigh, N. C. Remedy for coughs, colds, croup, etc. 45,469; re-renewed Aug. 22, 1945. O. G. Dec. 25. Class 6.
Carter, H. W. & Sons, Lebanon, N. H. Overalls. 50,145; re-renewed Mar. 6, 1946. O. G. Dec. 25. Class 39.
Charles of the Ritz, Inc., New York, N. Y., assignor to Associated Products, Inc., Chicago, Ill. Toilet water. 418,451; Dec. 25; Serial No. 475,834; published Feb. 20, 1945. Class 6.
Clyne, Joseph, New York, N. Y. Periodical publication. 418,473; Dec. 25; Serial No. 484,481; published Oct. 2, 1945. Class 38.
Colgate & Company to Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving soap and shaving stick. 209,299; renewed Feb. 23, 1946. O. G. Dec. 25. Class 4.
Colgate-Palmolive-Peet Company: *See*—
Colgate & Company.
Columbia Brick Works, Portland, Oreg. Burnt clay brick, stepping tile, hollow tile, and roughing tile. 418,442–3; Dec. 25; Serial Nos. 470,963–4; published Oct. 9, 1945. Class 12.
Container Corporation of America, Chicago, Ill. Paperboard cartons and boxes. 418,448; Dec. 25; Serial No. 473,310; published Oct. 16, 1945. Class 2.
Cornlite Dental Products Company, Chicago, Ill. Acrylic teeth. 418,487; Dec. 25; Serial No. 485,758; published Oct. 16, 1945. Class 44.
Cottin, Albert F.: *See*—
Hoopman, Aldus A.
Crest Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 418,492; Dec. 25; Serial No. 486,354; published Sept. 25, 1945. Class 42.
Crossen, Ken, doing business as Fact & Fiction Publications, New York, N. Y. Periodical magazines. 418,474; Dec. 25; Serial No. 484,484; published Oct. 2, 1945. Class 38.
Crouse-Hinds Company, Syracuse, N. Y. Electric plugs and plug receptacles. 206,886; renewed Dec. 15, 1945. O. G. Dec. 25. Class 21.
Crowley, Charles H., New York, N. Y. Needles. 50,091; re-renewed Mar. 6, 1946. O. G. Dec. 25. Class 40.
Cudahy Packing Company: *See*—
Cudahy Packing Co., The.
Cudahy Packing Co., The, Chicago, Ill., and South Omaha, Nebr., to The Cudahy Packing Company, Chicago, Ill. Lard. 50,295; re-renewed Mar. 6, 1946. O. G. Dec. 25. Class 46.
Deering, Milliken & Co., Inc.: *See*—
Whitney Mfg. Co.
Dembenski, Joseph E., New York, N. Y. Devices equipped with dental floss. 418,444; Dec. 25; Serial No. 471,208; published Oct. 16, 1945. Class 44.
Dr. Pepper Company, Dallas, Tex. Nonalcoholic, maltless beverages. 418,485–6; Dec. 25; Serial Nos. 485,629–30; published Oct. 2, 1945. Class 45.
Dorton, John M., Bonner Springs, Kans. Adjustable seats, adjustable chairs, convertible pieces of furniture, etc. 418,453; Dec. 25; Serial No. 477,152; published Oct. 16, 1945. Class 32.
Dudley, Carl, Beverly Hills, Calif. Containers for motion picture films. 418,467; Dec. 25; Serial No. 483,517; published Oct. 16, 1945. Class 2.
Empire Sporting Goods Manufacturing Co., Inc., New York, N. Y. Duffle bags, knapsacks, roverpacks, etc. 418,480; Dec. 25; Serial No. 485,529; published Oct. 16, 1945. Class 3.
Esmond Mills, The, to The Esmond Mills, Incorporated, Esmond, Smithfield, R. I. Textile blankets. 210,128–9; renewed Mar. 9, 1946. O. G. Dec. 25. Class 42.
Esmond Mills, Incorporated, The: *See*—
Esmond Mills.
Extended Surface, Inc., Brooklyn, N. Y. Finned tubing. 418,452; Dec. 25; Serial No. 475,947; published July 3, 1945. Class 34.
Fact & Fiction Publications: *See*—
Crossen, Ken.
Ferer, Aaron, & Sons Co.: *See*—
Ferer, Inc.
Ferer, Inc., St. Louis, Mo., to Aaron Ferer & Sons Co., Omaha, Nebr. Babbitt, lead, bronze, and brass. 204,766; renewed Oct. 27, 1945. O. G. Dec. 25. Class 14.
Firch Baking Company, Inc., Erie, Pa. Bread. 209,346; renewed Feb. 23, 1946. O. G. Dec. 25. Class 46.
First National Laboratories, Inc., Lehighton, Pa. Cold cream, blood and nerve tonic, pills used for the treatment of cold and grippe; etc. 209,870; renewed Mar. 2, 1946. O. G. Dec. 25. Class 6.



Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. 208,254; renewed Jan. 26, 1946. O. G. Dec. 25. Class 46.
Floor Shine Paint & Varnish Company to Grace L. Scott, St. Louis, Mo. Paints, enamels, varnish, and furniture polish, etc. 209,665; renewed Mar. 2, 1946. O. G. Dec. 25. Class 16.
Florman, Irving, New York, N. Y. Wrapping for vehicle springs. 209,893; renewed Mar. 2, 1946. O. G. Dec. 25. Class 35.
Frank, A. B., Company, San Antonio, Tex. Riding pants or riding trousers. 209,747; renewed Mar. 2, 1946. O. G. Dec. 25. Class 39.
Franke, Kenneth S., doing business as Kenard Novelty Co., New York, N. Y. Puzzle. 418,459; Dec. 25; Serial No. 478,076; published Oct. 16, 1945. Class 22.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Inner tubes for pneumatic vehicle tires. 208,406; renewed Feb. 2, 1946. O. G. Dec. 25. Class 35.
Groswold Ski Company, Inc., The, Denver, Colo. Skis and ski bindings and parts thereof. 418,483; Dec. 25; Serial No. 485,570; published Oct. 16, 1945. Class 22.
Groton & Knight Company: *See*—
New York Leather Belting Co.
Heise Brothers, Orleans, Ind. Horse and dairy feed, poultry feed, stock feed, etc. 209,773; renewed Mar. 2, 1946. O. G. Dec. 25. Class 46.
Heribert, Herbert J., New York, N. Y. Adhesive cement. 418,461; Dec. 25; Serial No. 481,786; published Oct. 16, 1945. Class 5.
Hirsch, Jacob, doing business as Bates Accounting Forms Co., New York, N. Y. Payroll computing machines. 418,468; Dec. 25; Serial No. 483,688; published Oct. 16, 1945. Class 26.
Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. 209,971; renewed Mar. 2, 1946. O. G. Dec. 25. Class 39.
Hoopman, Aldus A., doing business as The Mentholdyne Company, to Albert F. Cottin, Seattle, Wash. Anodyne antiseptic. 206,629; renewed Dec. 8, 1945. O. G. Dec. 25. Class 6.
Horton & Converse, Los Angeles, Calif. Combination container and device for delivering measured amounts of solid, semi-solid, or gelatinous materials. 418,475; Dec. 25; Serial No. 484,489; published Oct. 16, 1945. Class 44.
Huron Milling Company, Harbor Beach, Mich. Gums, sizings, and pastes made from starches. 207,960; renewed Jan. 12, 1946. O. G. Dec. 25. Class 5.
Hurst-Boillin Co., Clarksville, Tenn., to Kellogg Company, Battle Creek, Mich. Wheat flour. 209,328; renewed Feb. 23, 1946. O. G. Dec. 25. Class 46.
Ilex Optical Company, Rochester, N. Y. Camera shutters. 418,445–6; Dec. 25; Serial Nos. 471,948–9; published Oct. 16, 1945. Class 26.
Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. 418,456–8; Dec. 25; Serial Nos. 477,700–2; published Oct. 16, 1945. Class 26.
Indian Refining Company, Incorporated, Lawrenceville, Ill., and New York, N. Y., to The Texas Company, New York, N. Y. Lubricating oils, greases, and compounds in the nature of lubricants. 207,236; renewed Dec. 22, 1945. O. G. Dec. 25. Class 15.
International Silver Company, Meriden, Conn. Silverplated hollow ware. 49,769; re-renewed Feb. 13, 1946. O. G. Dec. 25. Class 28.
International Silver Company, Meriden, Conn. Silverplated hollow ware. 49,825; re-renewed Feb. 20, 1946. O. G. Dec. 25. Class 28.
Interstate Dry Goods Syndicate, Huntington, W. Va. Sheets, pillow cases, table linens, etc. 418,471; Dec. 25; Serial No. 484,346; published Sept. 25, 1945. Class 42.
Irwindale Citrus Association, Irwindale, Calif., to Irwindale Citrus Association, Irwindale, Calif., and Covina, Calif. Fresh citrous fruits. 209,837; renewed Mar. 2, 1946. O. G. Dec. 25. Class 46.
Jedwabnik, Lydia, New York, N. Y., doing business as Artistic Dolls Studio. Dolls. 418,465; Dec. 25; Serial No. 483,182; published Oct. 16, 1945. Class 22.
Kastor, Adolph, & Bros., to Adolph Kastor & Bros., Inc., New York, N. Y. Pocket-knives and razors. 48,928; re-renewed Jan. 16, 1946. O. G. Dec. 25. Class 23.
Kastor, Adolph, & Bros., Inc.: *See*—
Kastor, Adolph, & Bros.
Kellogg Company: *See*—
Hurst-Boillin Co.
Kellogg Company, Battle Creek, Mich. Brewers' grits. 418,491; Dec. 25; Serial No. 486,260; published Oct. 9, 1945. Class 47.
Kenard Novelty Co.: *See*—
Franke, Kenneth S.
Kimball, C. M., Company, Winthrop, Mass., to C. M. Kimball Company, Boston, Mass. Furniture polish. 203,402–3; renewed Sept. 15, 1945. O. G. Dec. 25. Class 16.
Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Sanitary napkins. 418,447; Dec. 25; Serial No. 473,255; published Oct. 16, 1945. Class 44.
Levey Bros. & Co., to Shield Press, Incorporated, Indianapolis, Ind. Periodical. 45,197; re-renewed Aug. 8, 1945. O. G. Dec. 25. Class 38.
Lexington Coffee Company, to S. O. Whitenack, Lexington, Ky. Coffee. 208,471; renewed Feb. 2, 1946. O. G. Dec. 25. Class 46.
Lindsay, Henry, Limited, Bradford, England. Hook adapters. 418,463; Dec. 25; Serial No. 482,292; published Oct. 16, 1945. Class 13.
Loomis, W. H., Talc Corporation, Gouverneur, N. Y. Special talc. 209,108; renewed Feb. 16, 1946. O. G. Dec. 25. Class 12.
Math-Ol Inflammacine Co., Inc., Rochester, N. Y. Toilet preparation. 208,790; renewed Feb. 9, 1946. O. G. Dec. 25. Class 6.
Mentholdyne Company, The: *See*—
Hoopman, Aldus A.
Mid-States Gummed Paper Co., Chicago, Ill., to Mid-States Gummed Paper Co., Chicago, Ill. Transparent gelatine paper. 203,624; renewed Sept. 22, 1945. O. G. Dec. 25. Class 37.
Monsanto Chemical Company: *See*—
Monsanto Chemical Works.
Provident Chemical Works.
Wilckes Martin Wilckes Company.
Monsanto Chemical Works, to Monsanto Chemical Company, St. Louis, Mo. Acetyl salicylic acid. 206,612; renewed Dec. 8, 1945. O. G. Dec. 25. Class 6.
Monsanto Chemical Works, to Monsanto Chemical Company, St. Louis, Mo. Germicides, disinfectants, deodorants, and chloramine T. 206,613; renewed Dec. 8, 1945. O. G. Dec. 25. Class 6.
Murphy, Mae B., Chicago, Ill. Dolls. 418,489; Dec. 25; Serial No. 485,879; published Oct. 16, 1945. Class 22.
Nashua Manufacturing Company: *See*—
Tremont & Suffolk Mills.
New York Leather Belting Co., New York, N. Y., to Groton & Knight Company, Worcester, Mass. Leather belting. 46,468; re-renewed Sept. 19, 1945. O. G. Dec. 25. Class 35.
Nicholson File Company: *See*—
Arcade File Works.
Nicholson File Company, Providence, R. I. Files and rasps and handles and bolders therefor. 50,882; re-renewed Apr. 3, 1946. O. G. Dec. 25. Class 23.
Old Dutch Mills, Inc.: *See*—
Young & Griffin Coffee Co. Inc.
Ott, Joe, Manufacturing Co., Chicago, Ill. Toy aircraft construction kits and parts thereof. 418,441; Dec. 25; Serial No. 465,633; published Oct. 16, 1945. Class 22.
Pacific Piston Ring Company: *See*—
Pacific Piston Ring Co.
Pacific Piston Ring Co., to Pacific Piston Ring Company, Los Angeles, Calif. Piston rings. 208,431; renewed Feb. 2, 1946. O. G. Dec. 25. Class 35.
Pacific Piston Ring Co., to Pacific Piston Ring Company, Los Angeles, Calif. Piston rings. 208,487; renewed Feb. 2, 1946. O. G. Dec. 25. Class 35.
Padre Vineyard Company, Los Angeles, Calif. Brandy. 418,481; Dec. 25; Serial No. 485,538; published Oct. 9, 1945. Class 49.
Padre Vineyard Company, Los Angeles, Calif. Wines. 418,482; Dec. 25; Serial No. 485,539; published Oct. 9, 1945. Class 47.
Phillips Brothers, to The Phillips Brothers Bottling Company, Baltimore, Md. Nonalcoholic maltless beverages. 206,027; renewed Nov. 24, 1945. O. G. Dec. 25. Class 45.
Phillips Brothers, to The Phillips Brothers Bottling Company, Baltimore, Md. Malt beverages. 206,146; renewed Nov. 24, 1945. O. G. Dec. 25. Class 48.
Phillips Brothers Bottling Company, The: *See*—
Phillips Brothers.
Precision Specialties, Los Angeles, Calif. Compacts. 418,466; Dec. 25; Serial No. 483,341; published Oct. 16, 1945. Class 2.
Provident Chemical Works, to Monsanto Chemical Company, St. Louis, Mo. Powdered acid phosphate of lime. 46,477; re-renewed Sept. 19, 1945. O. G. Dec. 25. Class 6.
Provident Chemical Works, to Monsanto Chemical Company, St. Louis, Mo. Powdered acid phosphate of lime. 46,851; re-renewed Oct. 10, 1945. O. G. Dec. 25. Class 6.
Quality Products Co., Inc., New York, N. Y. Leather kits. 418,454; Dec. 25; Serial No. 477,373; published Oct. 16, 1945. Class 3.
Railton, B. A., Company, Chicago, Ill. Tartaric and citric acids, alcohol, denatured, baking powder, bluing, etc. 204,204; renewed Oct. 13, 1945. O. G. Dec. 25. Classes 6 and 46.
Railton, B. A., Company, Chicago, Ill. Paper items. 204,934; renewed Oct. 27, 1945. O. G. Dec. 25. Class 37.
Raytheon Manufacturing Company: *See*—
American Appliance Co.
S. S. S. Co.: *See*—
Swift Specific Company, The.
Sayford, Frank M., Co. Inc., Brooklyn, N. Y. Paper cups. 418,472; Dec. 25; Serial No. 484,429; published Oct. 16, 1945. Class 2.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Arch supports. 418,490; Dec. 25; Serial No. 486,121; published Oct. 16, 1945. Class 44.
Scott, Grace L.: *See*—
Floor Shine Paint & Varnish Company.
Seneca, Stephen J., to Chas. B. Silver & Son, Havre de Grace, Md. Canned vegetables and fruits. 50,291; re-renewed Mar. 6, 1946. O. G. Dec. 25. Class 46.

Shapleigh Hardware Company, St. Louis, Mo. Pamphlets and periodicals. 209,496; renewed Feb. 23, 1946. O. G. Dec. 25. Class 38.
Shield Press: *See*—
Levey Bros. & Co.
Silver, Chas. B., & Son: *See*—
Seneca, Stephen J.
Smith, L. C., & Co., Vinalhaven, Maine. Cleanser and polisher. 209,668; renewed Mar. 2, 1946. O. G. Dec. 25. Class 16.
Southern Fertilizer & Chemical Company, Savannah, Ga. Fertilizers. 209,533; renewed Feb. 23, 1946. O. G. Dec. 25. Class 10.
Stammelman, Mortimer J.: *See*—
Atmos Products Corporation.
Standard Machine & Manufacturing Co., St. Louis, Mo. Manual control valves and solenoid control valves, liquid and gas strainers and filters, etc. 418,476; Dec. 25; Serial No. 484,502; published Oct. 16, 1945. Class 31.
Standard Oil Company (New Jersey), Bayonne, N. J., to Standard Oil Company of New Jersey, Wilmington, Del. Paraffin wax for washing purposes and harness oil. 207,675; renewed Jan. 5, 1946. O. G. Dec. 25. Class 4.
Standard Oil Company of New Jersey: *See*—
Standard Oil Company (New Jersey).
Stanford Seed Company, Inc., The, Buffalo, N. Y. Seeds. 209,661; renewed Mar. 2, 1946. O. G. Dec. 25. Class 1.
Stanford Seed Company, Inc., Buffalo, N. Y. Seeds. 209,802; renewed Mar. 2, 1946. O. G. Dec. 25. Class 1.
Stevens, John W., Sparkill, N. Y. Finger tape for all sports use. 418,477; Dec. 25; Serial No. 484,716; published Oct. 16, 1945. Class 22.
Stifel, J. L., & Sons, to J. L. Stifel & Sons, Inc., Wheeling, W. Va. Cotton piece goods. 209,758; renewed Mar. 2, 1946. O. G. Dec. 25. Class 42.
Stifel, J. L., & Sons, Inc.: *See*—
Stifel, J. L., & Sons.
Sunnykline Food Products Co., Minneapolis, Minn., to Charles R. Ulmen, Hollywood, Calif. Fruit cookies. 207,933; renewed Jan. 12, 1946. O. G. Dec. 25. Class 46.
Swift Specific Company, The, to S. S. S. Co., Atlanta, Ga. Laxative cathartic tablets. 207,596; renewed Jan. 5, 1946. O. G. Dec. 25. Class 6.
Tally-ho Manufacturing Co., New York, N. Y. Convertible seats. 418,462; Dec. 25; Serial No. 481,810; published Oct. 16, 1945. Class 32.
Texas Company, The: *See*—
Indian Refining Company, Incorporated.
Textileather Corporation, Toledo, Ohio. Coated fabrics. 418,493; Dec. 25; Serial No. 487,811. Class 42.
Tremont & Suffolk Mills, Lowell, Mass., to Nashua Manufacturing Company, Boston, Mass. Cotton piece goods. 49,750; re-renewed Feb. 13, 1946. O. G. Dec. 25. Class 42.
Triner, Joseph, to Joseph Triner Corporation, Chicago, Ill. Bitter wines. 48,569; re-renewed Jan. 2, 1946. O. G. Dec. 25. Class 47.
Triner, Joseph, Corporation: *See*—
Triner, Joseph.
Truscon Laboratories, Inc.: *See*—
Truscon Steel Company.
Truscon Steel Company, doing business as The Truscon Laboratories, Detroit and Hamtramck, Mich., to Truscon Laboratories, Inc., Detroit, Mich. Ready-mixed paints, enamels, stains, etc. 208,686; renewed Feb. 9, 1946. O. G. Dec. 25. Class 16.
Tryon, Edw. K., Company, Philadelphia, Pa. Artificial baits, baits and tackle boxes, etc. 418,455; Dec. 25; Serial No. 477,481; published Oct. 16, 1945. Class 22.
Ulmen, Charles R.: *See*—
Sunnykline Food Products Co.
Unique Fibers, Inc., New York, N. Y. Piece goods. 418,478; Dec. 25; Serial No. 484,918; published Sept. 25, 1945. Class 42.
Vargish and Company, New York, N. Y. Plastic photograph frames. 418,449; Dec. 25; Serial No. 474,180; published Oct. 16, 1945. Class 32.
WOR Program Service, Inc., doing business as WOR Recording Studios, New York, N. Y. Mechanically recorded sound records. 418,450; Dec. 25; Serial No. 475,553; published Oct. 16, 1945. Class 36.
WOR Recording Studios: *See*—
WOR Program Service, Inc.
Whitenack, S. O.: *See*—
Lexington Coffee Company.
Whitman, Clarence, & Co., to Clarence Whitman & Sons, Inc., New York, N. Y. Cotton piece goods. 49,065; re-renewed Jan. 23, 1946. O. G. Dec. 25. Class 42.
Whitman, Clarence, & Sons, Inc.: *See*—
Whitman, Clarence, & Co.
Whitney Mfg. Co., Whitney, S. C., to Deering, Milliken & Co., Inc., New York, N. Y. Cotton piece goods. 209,300; renewed Feb. 23, 1946. O. G. Dec. 25. Class 42.
Wilckes Martin Wilckes Company, New York, N. Y., to Monsanto Chemical Company, St. Louis, Mo. Lampblack and carbon-gas black. 204,094; renewed Oct. 6, 1945. O. G. Dec. 25. Class 1.
Williamsburg Publishing Co. Inc., New York, N. Y. Greeting cards. 418,464; Dec. 25; Serial No. 482,406; published Oct. 2, 1945. Class 38.
Young & Griffin Coffee Co. Inc., to Old Dutch Mills, Inc., New York, N. Y. Coffee. 209,869; renewed Mar. 2, 1946. O. G. Dec. 25. Class 46.
Zuercher, C. E., & Co., Chicago, Ill. Imported Swiss gruyère cheese. 208,409; renewed Feb. 2, 1946. O. G. Dec. 25. Class 46.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Lampblack and carbon-gas black. Wilckes Martin Wilckes Company. 204,094; renewed Oct. 6, 1945. O. G. Dec. 25.
Seeds. Stanford Seed Company, Inc. 209,661; renewed Mar. 2, 1946. O. G. Dec. 25.
Seeds. Stanford Seed Company, Inc. 209,802; renewed Mar. 2, 1946. O. G. Dec. 25.

## CLASS 2

Cartons and boxes, Paperboard. Container Corporation of America. 418,448; Dec. 25; Serial No. 473,310; published Oct. 16, 1945.
Cases, shipping cases, shooks, etc., Packing. Atlas Plywood Corporation. 209,886; renewed Mar. 2, 1946. O. G. Dec. 25.
Cases, shipping cases, shooks, etc., Shipping. Atlas Plywood Corporation. 208,762; renewed Feb. 9, 1946. O. G. Dec. 25.
Compacts. Precision Specialties. 418,466; Dec. 25; Serial No. 483,341; published Oct. 16, 1945.
Containers for motion picture films. C. Dudley. 418,467; Dec. 25; Serial No. 483,517; published Oct. 16, 1945.
Cups, Paper. Frank M. Sayford Co., Inc. 418,472; Dec. 25; Serial No. 484,429; published Oct. 16, 1945.

## CLASS 3

Bags, knapsacks, roverpacks, etc., Duffle. Empire Sporting Goods Manufacturing Co., Inc. 418,480; Dec. 25; Serial No. 485,529; published Oct. 16, 1945.
Kits, Leather. Quality Products Co., Inc. 418,454; Dec. 25; Serial No. 477,373; published Oct. 16, 1945.

## CLASS 4

Soap and shaving stick, Shaving. Colgate & Company. 209,299; renewed Feb. 23, 1946. O. G. Dec. 25.
Wax for washing purposes and harness oil, Paraffin. Standard Oil Company (New Jersey). 207,675; renewed Jan. 5, 1946. O. G. Dec. 25.

## CLASS 5

Cement, Adhesive. H. J. Heribert. 418,461; Dec. 25; Serial No. 481,786; published Oct. 16, 1945.
Gums, sizings, and pastes made from starches. Huron Milling Company. 207,960; renewed Jan. 12, 1946. O. G. Dec. 25.

## CLASS 6

Acid, Acetyl salicylic. Monsanto Chemical Works. 206,612; renewed Dec. 8, 1945. O. G. Dec. 25.
Acid phosphate of lime, Powdered. Provident Chemical Works. 46,477; re-renewed Sept. 19, 1945. O. G. Dec. 25.
Acid phospbate of lime, Powdered. Provident Chemical Works. 46,851; re-renewed Oct. 10, 1945. O. G. Dec. 25.
Acids, alcohol, denatured, baking powder, bluing, etc., Tartaric and citric. B. A. Railton Company. 204,204; renewed Oct. 13, 1945. O. G. Dec. 25.
Antiseptic, Anodyne. A. A. Hoopman. 206,629; renewed Dec. 8, 1945. O. G. Dec. 25.
Cathartic tablets, Laxative. Swift Specific Company. 207,596; renewed Jan. 5, 1946. O. G. Dec. 25.
Chemical compound, Humidifying. Atmos Products Corporation. 209,744; renewed Mar. 2, 1946. O. G. Dec. 25.
Cream, blood and nerve tonic, pills used for the treatment of cold and grippe; etc., Cold. First National Laboratories, Inc. 209,870; renewed Mar. 2, 1946. O. G. Dec. 25.
Germicides, disinfectants, deodorants, and chloramine T. Monsanto Chemical Works. 206,613; renewed Dec. 8, 1945. O. G. Dec. 25.
Powder, face make-up, lipstick, etc., Face. Associated Distributors, Inc. 418,460; Dec. 25; Serial No. 480,641; published Oct. 2, 1945.
Remedy for coughs, colds, croup, etc. Capudine Chemical Company. 45,469; re-renewed Aug. 22, 1945. O. G. Dec. 25.
Salts, Effervescent beverage. A. Brioschi & Co. Inc. 209,297–8; renewed Feb. 23, 1946. O. G. Dec. 25.



Toilet preparation. Math-Ol Inflammacine Co., Inc. 208,790; renewed Feb. 9, 1946. O. G. Dec. 25.
Toilet water. Charles of the Ritz, Inc. 418,451; Dec. 25; Serial No. 475,834; published Feb. 20, 1945.

## CLASS 10

Fertilizers. Southern Fertilizer & Chemical Company. 209,533; renewed Feb. 23, 1946. O. G. Dec. 25.

## CLASS 12

Brick, stepping tile, hollow tile and roughing tile, Burnt clay. Columbia Brick Works. 418,442–3; Dec. 25; Serial Nos. 470,963–4; published Oct. 9, 1945.
Panels and dimension veneer, Plywood. Atlas Plywood Corporation. 209,884–5; renewed Mar. 2, 1946. O. G. Dec. 25.
Talc, Special. W. H. Loomis Talc Corporation. 209,108; renewed Feb. 16, 1946. O. G. Dec. 25.

## CLASS 13

Hook adapters. Henry Lindsay Limited. 418,463; Dec. 25; Serial No. 482,292; published Oct. 16, 1945.

## CLASS 14

Babbitt, lead, bronze, and brass. Ferer, Inc. 204,766; renewed Oct. 27, 1945. O. G. Dec. 25.

## CLASS 15

Oils, greases and compounds in the nature of lubricants, Lubricating. Indian Refining Company, Incorporated. 207,236; renewed Dec. 22, 1945. O. G. Dec. 25.

## CLASS 16

Cleanser and polisher. L. C. Smith & Co. 209,668; renewed Mar. 2, 1946. O. G. Dec. 25.
Paint enamels, varnish & furniture polish, etc. Floor Shine Paint & Varnish Company. 209,665; renewed Mar. 2, 1946. O. G. Dec. 25.
Paints, enamels, stains, etc., Ready-mixed. Truscon Steel Company. 208,686; renewed Feb. 9, 1946. O. G. Dec. 25.
Polish, Furniture. C. M. Kimball Company. 203,402–3; renewed Sept. 15, 1945. O. G. Dec. 25.

## CLASS 21

Plugs and plug receptacles, Electric. Orouse-Hinds Company. 206,886; renewed Dec. 15, 1945. O. G. Dec. 25.
Tubes, Rectifier. American Appliance Co. 208,886; renewed Feb. 9, 1946. O. G. Dec. 25.

## CLASS 22

Baits, baits and tackle boxes, etc., Artificial. Edw. K. Tryon Company. 418,455; Dec. 25; Serial No. 477,481; published Oct. 16, 1945.
Dolls. L. Jedwabnik. 418,465; Dec. 25; Serial No. 483,182; published Oct. 16, 1945.
Dolls. M. B. Murphy. 418,469; Dec. 25; Serial No. 485,879; published Oct. 16, 1945.
Dolls, Toy. M. Allefcher & Co. 418,469; Dec. 25; Serial No. 484,005; published Oct. 16, 1945.
Puzzle. K. S. Franke. 418,459; Dec. 25; Serial No. 478,076; published Oct. 16, 1945.
Skis and ski bindings and parts thereof. Groswold Ski Company, Inc. 418,483; Dec. 25; Serial No. 485,570; published Oct. 16, 1945.
Tape for all sports use, Finger. J. W. Stevens. 418,477; Dec. 25; Serial No. 484,716; published Oct. 16, 1945.
Toy aircraft construction kits and parts thereof. Joe Ott Manufacturing Co. 418,441; Dec. 25; Serial No. 465,633; published Oct. 16, 1945.

## CLASS 23

Files and rasps. Arcade File Works. 49,460; re-renewed Feb. 6, 1946. O. G. Dec. 25.
Files and rasps and handles and holders therefor. Nicholson File Company. 50,882; re-renewed Apr. 3, 1946. O. G. Dec. 25.
Pocket-knives and razors. Adolph Kastor & Bros. 48,928; re-renewed Jan. 16, 1946. O. G. Dec. 25.

## CLASS 26

Camera shutters. Ilex Optical Company. 418,445–6; Dec. 25; Serial Nos. 471,948–9; published Oct. 16, 1945.
Cameras and photographic enlargers, Photographic. Burke and James, Inc. 418,479; Dec. 25; Serial No. 484,933; published Oct. 16, 1945.
Computing machines, Payroll. J. Hirsch. 418,468; Dec. 25; Serial No. 483,688; published Oct. 16, 1945.
Measuring instruments and parts thereof, Electrical temperature. Illinois Testing Laboratories, Inc. 418,456–8; Dec. 25; Serial Nos. 477,700–2; published Oct. 16, 1945.

## CLASS 28

Hollow ware, Silver-plated. International Silver Company. 49,769; re-renewed Feb. 13, 1946. O. G. Dec. 25.
Hollow ware, Silver-plated. International Silver Company. 49,825; re-renewed Feb. 20, 1946. O. G. Dec. 25.

## CLASS 31

Valves and solenoid control valves, liquid and gas strainers and filters, etc., Manual control. Standard Machine & Manufacturing Co. 418,476; Dec. 25; Serial No. 484,502; published Oct. 16, 1945.

## CLASS 32

Frames, Plastic photograph. Vargish and Company. 418,449; Dec. 25; Serial No. 474,180; published Oct. 16, 1945.
Furniture, Household. L. Bamberger & Co. 209,440; renewed Feb. 23, 1946. O. G. Dec. 25.
Seats, adjustable chairs, convertible pieces of furniture, etc., Adjustable. J. M. Dorton. 418,453; Dec. 25; Serial No. 477,152; published Oct. 16, 1945.
Seats, Convertible. Tally-ho Manufacturing Co. 418,462; Dec. 25; Serial No. 481,810; published Oct. 16, 1945.

## CLASS 34

Tubing, Finned. Extended Surface, Inc. 418,452; Dec. 25; Serial No. 475,947; published July 3, 1945.

## CLASS 35

Belting, Leather. New York Leather Belting Co. 46,468; re-renewed Sept. 19, 1945. O. G. Dec. 25.
Piston rings. Pacific Piston Ring Co. 208,431; renewed Feb. 2, 1946. O. G. Dec. 25.
Piston rings. Pacific Piston Ring Co. 208,487; renewed Feb. 2, 1946. O. G. Dec. 25.
Tubes for pneumatic vehicle tires, Inner. Goodyear Tire & Rubber Company, The. 208,406; renewed Feb. 2, 1946. O. G. Dec. 25.
Wrapping for vehicle springs. I. Florman. 209,893; renewed Mar. 2, 1946. O. G. Dec. 25.

## CLASS 36

Sound records, Mechanically recorded. WOR Program Service, Inc. 418,450; Dec. 25; Serial No. 475,553; published Oct. 16, 1945.

## CLASS 37

Paper items. B. A. Railton Company. 204,934; renewed Oct. 27, 1945. O. G. Dec. 25.
Paper, Transparent gelatine. Mid-States Gummed Paper Co. 203,624; renewed Sept. 22, 1945. O. G. Dec. 25.
Pencils, crayons, chalk crayons, etc., Paper-wrapped. American Crayon Company. 209,071; renewed Feb. 16, 1946. O. G. Dec. 25.

## CLASS 38

Cards, Greeting. Williamsburg Publishing Co. Inc. 418,464; Dec. 25; Serial No. 482,406; published Oct. 2, 1945.
Magazine, Monthly. American Radio Relay League, Inc. 418,484; Dec. 25; Serial No. 485,622; published Oct. 9, 1945.
Magazines, Periodical. K. Crossen. 418,474; Dec. 25; Serial No. 484,484; published Oct. 2, 1945.
Pamphlets and periodicals. Shapleigh Hardware Company. 209,496; renewed Feb. 23, 1946. O. G. Dec. 25.
Periodical. Levey Bros. & Co. 45,197; re-renewed Aug. 8, 1945. O. G. Dec. 25.
Periodical publication. J. Clyne. 418,473; Dec. 25; Serial No. 484,481; published Oct. 2, 1945.

## CLASS 39

Hosiery. Holeproof Hosiery Co. 209,971; renewed Mar. 2, 1946. O. G. Dec. 25.
Overalls. Alexander Bros. Company. 207,302; renewed Dec. 29, 1945. O. G. Dec. 25.
Overalls. H. W. Carter & Sons. 50,145; re-renewed Mar. 6, 1946. O. G. Dec. 25.
Pants or riding trousers, Riding. A. B. Frank Company. 209,747; renewed Mar. 2, 1946. O. G. Dec. 25.
Textile articles. Bear Brand Hosiery Co. 204,239; renewed Oct. 13, 1945. O. G. Dec. 25.

## CLASS 40

Needles. C. H. Crowley. 50,091; re-renewed Mar. 6, 1946. O. G. Dec. 25.

## CLASS 42

Blankets, Textile. Esmond Mills. 210,128–9; renewed Mar. 9, 1946. O. G. Dec. 25.
Carpets and rugs. Belgorugs Inc. 418,488; Dec. 25; Serial No. 485,811; published Sept. 25, 1945.
Cotton piece goods. J. L. Stifel & Sons. 209,758; renewed Mar. 2, 1946. O. G. Dec. 25.
Cotton piece goods. Tremont & Suffolk Mills. 49,750; re-renewed Feb. 13, 1946. O. G. Dec. 25.
Cotton piece goods. C. Whitman & Co. 49,065; re-renewed Jan. 23, 1946. O. G. Dec. 25.
Cotton piece goods. Whitney Mfg. Co. 209,300; renewed Feb. 23, 1946. O. G. Dec. 25.
Fabrics, Coated. Textileather Corporation. 418,493; Dec. 25; Serial No. 487,811.
Knitted piece goods. Blue Ridge Textile Co. Inc. 418,470; Dec. 25; Serial No. 484,290; published Sept. 25, 1945.
Piece goods. Unique Fibers, Inc. 418,478; Dec. 25; Serial No. 484,918; published Sept. 25, 1945.

Shapleigh Hardware Company, St. Louis, Mo. Pamphlets and periodicals. 209,496; renewed Feb. 23, 1946. O. G. Dec. 25. Class 38.
Shield Press: *See*—
Levey Bros. & Co.
Sliver, Chas. B., & Son: *See*—
Seneca, Stephen J.
Smith, L. C., & Co., Vinalhaven, Maine. Cleanser and polisher. 209,668; renewed Mar. 2, 1946. O. G. Dec. 25. Class 16.
Southern Fertilizer & Chemical Company, Savannah, Ga. Fertilizers. 209,533; renewed Feb. 23, 1946. O. G. Dec. 25. Class 10.
Stammelman, Mortimer J.: *See*—
Atmos Products Corporation.
Standard Machine & Manufacturing Co., St. Louis, Mo. Manual control valves and solenoid control valves, liquid and gas strainers and filters, etc. 418,476; Dec. 25; Serial No. 484,502; published Oct. 16, 1945. Class 31.
Standard Oil Company (New Jersey), Bayonne, N. J., to Standard Oil Company of New Jersey, Wilmington, Del. Paraffin wax for washing purposes and harness oil. 207,675; renewed Jan. 5, 1946. O. G. Dec. 25. Class 4.
Standard Oil Company of New Jersey: *See*—
Standard Oil Company (New Jersey).
Stanford Seed Company, Inc., The, Buffalo, N. Y. Seeds. 209,661; renewed Mar. 2, 1946. O. G. Dec. 25. Class 1.
Stanford Seed Company, Inc., Buffalo, N. Y. Seeds. 209,802; renewed Mar. 2, 1946. O. G. Dec. 25. Class 1.
Stevens, John W., Sparkill, N. Y. Finger tape for all sports use. 418,477; Dec. 25; Serial No. 484,716; published Oct. 16, 1945. Class 22.
Stifel, J. L., & Sons, to J. L. Stifel & Sons, Inc., Wheeling, W. Va. Cotton piece goods. 209,758; renewed Mar. 2, 1946. O. G. Dec. 25. Class 42.
Stifel, J. L., & Sons, Inc.: *See*—
Stifel, J. L., & Sons.
Sunnykline Food Products Co., Minneapolis, Minn., to Charles R. Ulmen, Hollywood, Calif. Fruit cookies. 207,933; renewed Jan. 12, 1946. O. G. Dec. 25. Class 46.
Swift Specific Company, The, to S. S. S. Co., Atlanta, Ga. Laxative cathartic tablets. 207,596; renewed Jan. 5, 1946. O. G. Dec. 25. Class 6.
Tally-ho Manufacturing Co., New York, N. Y. Convertible seats. 418,462; Dec. 25; Serial No. 481,810; published Oct. 16, 1945. Class 32.
Texas Company, The: *See*—
Indian Refining Company, Incorporated.
Textileather Corporation, Toledo, Ohio. Coated fabrics. 418,493; Dec. 25; Serial No. 487,811. Class 42.
Tremont & Suffolk Mills, Lowell, Mass., to Nashua Manufacturing Company, Boston, Mass. Cotton piece goods. 49,750; re-renewed Feb. 13, 1946. O. G. Dec. 25. Class 42.
Triner, Joseph, to Joseph Triner Corporation, Chicago, Ill. Bitter wines. 48,569; re-renewed Jan. 2, 1946. O. G. Dec. 25. Class 47.
Triner, Joseph, Corporation: *See*—
Triner, Joseph.
Truscon Laboratories, Inc.: *See*—
Truscon Steel Company.
Truscon Steel Company, doing business as The Truscon Laboratories, Detroit and Hamtramck, Mich., to Truscon Laboratories, Inc., Detroit, Mich. Ready-mixed paints, enamels, stains, etc. 208,686; renewed Feb. 9, 1946. O. G. Dec. 25. Class 16.
Tryon, Edw. K., Company, Philadelphia, Pa. Artificial baits, baits and tackle boxes, etc. 418,455; Dec. 25; Serial No. 477,481; published Oct. 16, 1945. Class 22.
Ulmen, Charles R.: *See*—
Sunnykline Food Products Co.
Unique Fibers, Inc., New York, N. Y. Piece goods. 418,478; Dec. 25; Serial No. 484,918; published Sept. 25, 1945. Class 42.
Vargish and Company, New York, N. Y. Plastic photograph frames. 418,449; Dec. 25; Serial No. 474,180; published Oct. 16, 1945. Class 32.
WOR Program Service, Inc., doing business as WOR Recording Studios, New York, N. Y. Mechanically recorded sound records. 418,450; Dec. 25; Serial No. 475,553; published Oct. 16, 1945. Class 36.
WOR Recording Studios: *See*—
WOR Program Service, Inc.
Whitenack, S. O.: *See*—
Lexington Coffee Company.
Whitman, Clarence, & Co., to Clarence Whitman & Sons, Inc., New York, N. Y. Cotton piece goods. 49,065; renewed Jan. 23, 1946. O. G. Dec. 25. Class 42.
Whitman, Clarence, & Sons, Inc.: *See*—
Whitman, Clarence, & Co.
Whitney Mfg. Co., Whitney, S. C., to Deering, Milliken & Co., Inc., New York, N. Y. Cotton piece goods. 209,300; renewed Feb. 23, 1946. O. G. Dec. 25. Class 42.
Wilckes Martin Wilckes Company, New York, N. Y., to Monsanto Chemical Company, St. Louis, Mo. Lampblack and carbon-gas black. 204,094; renewed Oct. 6, 1945. O. G. Dec. 25. Class 1.
Williamsburg Publishing Co. Inc., New York, N. Y. Greeting cards. 418,464; Dec. 25; Serial No. 482,406; published Oct. 2, 1945. Class 38.
Young & Griffin Coffee Co. Inc., to Old Dutch Mills, Inc., New York, N. Y. Coffee. 209,869; renewed Mar. 2, 1946. O. G. Dec. 25. Class 46.
Zuercher, C. E., & Co., Chicago, Ill. Imported Swiss gruyère cheese. 208,409; renewed Feb. 2, 1946. O. G. Dec. 25. Class 46.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Lampblack and carbon-gas black. Wilckes Martin Wilckes Company. 204,094; renewed Oct. 6, 1945. O. G. Dec. 25.
Seeds. Stanford Seed Company, Inc. 209,661; renewed Mar. 2, 1946. O. G. Dec. 25.
Seeds. Stanford Seed Company, Inc. 209,802; renewed Mar. 2, 1946. O. G. Dec. 25.

## CLASS 2

Cartons and boxes, Paperboard. Container Corporation of America. 418,448; Dec. 25; Serial No. 473,310; published Oct. 16, 1945.
Cases, shipping cases, shooks, etc., Packing. Atlas Plywood Corporation. 209,886; renewed Mar. 2, 1946. O. G. Dec. 25.
Cases, shipping cases, shooks, etc., Shipping. Atlas Plywood Corporation. 208,762; renewed Feb. 9, 1946. O. G. Dec. 25.
Compacts. Precision Specialties. 418,466; Dec. 25; Serial No. 483,341; published Oct. 16, 1945.
Containers for motion picture films. C. Dudley. 418,467; Dec. 25; Serial No. 483,517; published Oct. 16, 1945.
Cups, Paper. Frank M. Sayford Co., Inc. 418,472; Dec. 25; Serial No. 484,429; published Oct. 16, 1945.

## CLASS 3

Bags, knapsacks, roverpacks, etc., Duffle. Empire Sporting Goods Manufacturing Co., Inc. 418,480; Dec. 25; Serial No. 485,529; published Oct. 16, 1945.
Kits, Leather. Quality Products Co., Inc. 418,454; Dec. 25; Serial No. 477,373; published Oct. 16, 1945.

## CLASS 4

Soap and shaving stick, Shaving. Colgate & Company. 209,299; renewed Feb. 23, 1946. O. G. Dec. 25.
Wax for washing purposes and harness oil, Paraffin. Standard Oil Company (New Jersey). 207,675; renewed Jan. 5, 1946. O. G. Dec. 25.

## CLASS 5

Cement, Adhesive. H. J. Heribert. 418,461; Dec. 25; Serial No. 481,786; published Oct. 16, 1945.
Gums, sizings, and pastes made from starches. Huron Milling Company. 207,960; renewed Jan. 12, 1946. O. G. Dec. 25.

## CLASS 6

Acid, Acetyl salicylic. Monsanto Chemical Works. 206,612; renewed Dec. 8, 1945. O. G. Dec. 25.
Acid phosphate of lime, Powdered. Provident Chemical Works. 46,477; re-renewed Sept. 19, 1945. O. G. Dec. 25.
Acid phosphate of lime, Powdered. Provident Chemical Works. 46,851; re-renewed Oct. 10, 1945. O. G. Dec. 25.
Acids, alcohol, denatured, baking powder, bluing, etc., Tartaric and citric. B. A. Railton Company. 204,204; renewed Oct. 13, 1945. O. G. Dec. 25.
Antiseptic, Anodyne. A. A. Hoopman. 206,629; renewed Dec. 8, 1945. O. G. Dec. 25.
Cathartic tablets, Laxative. Swift Specific Company. 207,596; renewed Jan. 5, 1946. O. G. Dec. 25.
Chemical compound, Humidifying. Atmos Products Corporation. 209,744; renewed Mar. 2, 1946. O. G. Dec. 25.
Cream, blood and nerve tonic, pills used for the treatment of cold and grippe; etc., Cold. First National Laboratories, Inc. 209,870; renewed Mar. 2, 1946. O. G. Dec. 25.
Germicides, disinfectants, deodorants, and chloramine T. Monsanto Chemical Works. 206,613; renewed Dec. 8, 1945. O. G. Dec. 25.
Powder, face make-up, lipstick, etc., Face. Associated Distributors, Inc. 418,460; Dec. 25; Serial No. 480,641; published Oct. 2, 1945.
Remedy for coughs, colds, croup, etc. Capudine Chemical Company. 45,469; re-renewed Aug. 22, 1945. O. G. Dec. 25.
Salts, Effervescent beverage. A. Brioschi & Co. Inc. 209,297-8; renewed Feb. 23, 1946. O. G. Dec. 25.



Toilet preparation. Math-Ol Inflammacine Co., Inc. 208,790; renewed Feb. 9, 1946. O. G. Dec. 25.
Toilet water. Charles of the Ritz, Inc. 418,451; Dec. 25; Serial No. 475,834; published Feb. 20, 1945.

## CLASS 10

Fertilizers. Southern Fertilizer & Chemical Company. 209,533; renewed Feb. 23, 1946. O. G. Dec. 25.

## CLASS 12

Brick, stepping tile, hollow tile and roughing tile, Burnt clay. Columbia Brick Works. 418,442-3; Dec. 25; Serial Nos. 470,963-4; published Oct. 9, 1945.
Panels and dimension veneer, Plywood. Atlas Plywood Corporation. 209,884-5; renewed Mar. 2, 1946. O. G. Dec. 25.
Talc, Special. W. H. Loomis Talc Corporation. 209,108; renewed Feb. 16, 1946. O. G. Dec. 25.

## CLASS 13

Hook adapters. Henry Lindsay Limited. 418,463; Dec. 25; Serial No. 482,292; published Oct. 16, 1945.

## CLASS 14

Babbitt, lead, bronze, and brass. Ferer, Inc. 204,766; renewed Oct. 27, 1945. O. G. Dec. 25.

## CLASS 15

Oils, greases and compounds in the nature of lubricants, Lubricating. Indian Refining Company, Incorporated. 207,236; renewed Dec. 22, 1945. O. G. Dec. 25.

## CLASS 16

Cleanser and polisher. L. C. Smith & Co. 209,668; renewed Mar. 2, 1946. O. G. Dec. 25.
Paint enamels, varnish & furniture polish, etc. Floor Shine Paint & Varnish Company. 209,665; renewed Mar. 2, 1946. O. G. Dec. 25.
Paints, enamels, stains, etc., Ready-mixed. Truscon Steel Company. 208,686; renewed Feb. 9, 1946. O. G. Dec. 25.
Polish, Furniture. C. M. Kimball Company. 203,402-3; renewed Sept. 15, 1945. O. G. Dec. 25.

## CLASS 21

Plugs and plug receptacles, Electric. Orouse-Hinds Company. 206,886; renewed Dec. 15, 1945. O. G. Dec. 25.
Tubes, Rectifier. American Appliance Co. 208,886; renewed Feb. 9, 1946. O. G. Dec. 25.

## CLASS 22

Baits, baits and tackle boxes, etc., Artificial. Edw. K. Tryon Company. 418,455; Dec. 25; Serial No. 477,481; published Oct. 16, 1945.
Dolls. L. Jedwabnik. 418,465; Dec. 25; Serial No. 483,182; published Oct. 16, 1945.
Dolls. M. B. Murphy. 418,469; Dec. 25; Serial No. 485,879; published Oct. 16, 1945.
Dolls, Toy. M. Alletcher & Co. 418,469; Dec. 25; Serial No. 484,005; published Oct. 16, 1945.
Puzzle. K. S. Franke. 418,459; Dec. 25; Serial No. 478,076; published Oct. 16, 1945.
Skis and ski bindings and parts thereof. Groswold Ski Company, Inc. 418,483; Dec. 25; Serial No. 485,570; published Oct. 16, 1945.
Tape for all sports use, Finger. J. W. Stevens. 418,477; Dec. 25; Serial No. 484,716; published Oct. 16, 1945.
Toy aircraft construction kits and parts thereof. Joe Ott Manufacturing Co. 418,441; Dec. 25; Serial No. 465,633; published Oct. 16, 1945.

## CLASS 23

Files and rasps. Arcade File Works. 49,460; re-renewed Feb. 6, 1946. O. G. Dec. 25.
Files and rasps and handles and holders therefor. Nicholson File Company. 50,882; re-renewed Apr. 3, 1946. O. G. Dec. 25.
Pocket-knives and razors. Adolph Kastor & Bros. 48,928; re-renewed Jan. 16, 1946. O. G. Dec. 25.

## CLASS 26

Camera shutters. Ilex Optical Company. 418,445-6; Dec. 25; Serial Nos. 471,948-9; published Oct. 16, 1945.
Cameras and photographic enlargers, Photographic. Burke and James, Inc. 418,479; Dec. 25; Serial No. 484,933; published Oct. 16, 1945.
Computing machines, Payroll. J. Hirsch. 418,468; Dec. 25; Serial No. 483,688; published Oct. 16, 1945.
Measuring instruments and parts thereof, Electrical temperature. Illinois Testing Laboratories, Inc. 418,456-8; Dec. 25; Serial Nos. 477,700-2; published Oct. 16, 1945.

## CLASS 28

Hollow ware, Silver-plated. International Silver Company. 49,769; re-renewed Feb. 13, 1946. O. G. Dec. 25.
Hollow ware, Silver-plated. International Silver Company. 49,825; re-renewed Feb. 20, 1946. O. G. Dec. 25.

## CLASS 31

Valves and solenoid control valves, liquid and gas strainers and filters, etc., Manual control. Standard Machine & Manufacturing Co. 418,476; Dec. 25; Serial No. 484,502; published Oct. 16, 1945.

## CLASS 32

Frames, Plastic photograph. Vargish and Company. 418,449; Dec. 25; Serial No. 474,180; published Oct. 16, 1945.
Furniture, Household. L. Bamberger & Co. 209,440; renewed Feb. 23, 1946. O. G. Dec. 25.
Seats, adjustable chairs, convertible pieces of furniture, etc., Adjustable. J. M. Dorton. 418,453; Dec. 25; Serial No. 477,152; published Oct. 16, 1945.
Seats, Convertible. Tally-ho Manufacturing Co. 418,462; Dec. 25; Serial No. 481,810; published Oct. 16, 1945.

## CLASS 34

Tubing, Finned. Extended Surface, Inc. 418,452; Dec. 25; Serial No. 475,947; published July 3, 1945.

## CLASS 35

Belting, Leather. New York Leather Belting Co. 46,468; re-renewed Sept. 19, 1945. O. G. Dec. 25.
Piston rings. Pacific Piston Ring Co. 208,431; renewed Feb. 2, 1946. O. G. Dec. 25.
Piston rings. Pacific Piston Ring Co. 208,487; renewed Feb. 2, 1946. O. G. Dec. 25.
Tubes for pneumatic vehicle tires, Inner. Goodyear Tire & Rubber Company, The. 208,406; renewed Feb. 2, 1946. O. G. Dec. 25.
Wrapping for vehicle springs. I. Florman. 209,893; renewed Mar. 2, 1946. O. G. Dec. 25.

## CLASS 36

Sound records, Mechanically recorded. WOR Program Service, Inc. 418,450; Dec. 25; Serial No. 475,553; published Oct. 16, 1945.

## CLASS 37

Paper items. B. A. Railton Company. 204,934; renewed Oct. 27, 1945. O. G. Dec. 25.
Paper, Transparent gelatine. Mid-States Gummed Paper Co. 203,624; renewed Sept. 22, 1945. O. G. Dec. 25.
Pencils, crayons, chalk crayons, etc., Paper-wrapped. American Crayon Company. 209,071; renewed Feb. 16, 1946. O. G. Dec. 25.

## CLASS 38

Cards, Greeting. Williamsburg Publishing Co. Inc. 418,464; Dec. 25; Serial No. 482,406; published Oct. 2, 1945.
Magazine, Monthly. American Radio Relay League, Inc. 418,484; Dec. 25; Serial No. 485,622; published Oct. 9, 1945.
Magazines, Periodical. K. Crossen. 418,474; Dec. 25; Serial No. 484,484; published Oct. 2, 1945.
Pamphlets and periodicals. Shapleigh Hardware Company. 209,496; renewed Feb. 23, 1946. O. G. Dec. 25.
Periodical. Levey Bros. & Co. 45,197; re-renewed Aug. 8, 1945. O. G. Dec. 25.
Periodical publication. J. Clyne. 418,473; Dec. 25; Serial No. 484,481; published Oct. 2, 1945.

## CLASS 39

Hosiery. Holeproof Hosiery Co. 209,971; renewed Mar. 2, 1946. O. G. Dec. 25.
Overalls. Alexander Bros. Company. 207,302; renewed Dec. 29, 1945. O. G. Dec. 25.
Overalls. H. W. Carter & Sons. 50,145; re-renewed Mar. 6, 1946. O. G. Dec. 25.
Pants or riding trousers, Riding. A. B. Frank Company. 209,747; renewed Mar. 2, 1946. O. G. Dec. 25.
Textile articles. Bear Brand Hosiery Co. 204,239; renewed Oct. 13, 1945. O. G. Dec. 25.

## CLASS 40

Needles. C. H. Crowley. 50,091; re-renewed Mar. 6, 1946. O. G. Dec. 25.

## CLASS 42

Blankets, Textile. Esmond Mills. 210,128-9; renewed Mar. 9, 1946. O. G. Dec. 25.
Carpets and rugs. Belgorugs Inc. 418,488; Dec. 25; Serial No. 485,811; published Sept. 25, 1945.
Cotton piece goods. J. L. Stifel & Sons. 209,758; renewed Mar. 2, 1946. O. G. Dec. 25.
Cotton piece goods. Tremont & Suffolk Mills. 49,750; re-renewed Feb. 13, 1946. O. G. Dec. 25.
Cotton piece goods. C. Whitman & Co. 49,065; re-renewed Jan. 23, 1946. O. G. Dec. 25.
Cotton piece goods. Whitney Mfg. Co. 209,300; renewed Feb. 23, 1946. O. G. Dec. 25.
Fabrics, Coated. Textileather Corporation. 418,493; Dec. 25; Serial No. 487,811.
Knitted piece goods. Blue Ridge Textile Co. Inc. 418,470; Dec. 25; Serial No. 484,290; published Sept. 25, 1945.
Piece goods. Unique Fibers, Inc. 418,478; Dec. 25; Serial No. 484,918; published Sept. 25, 1945.

Sheets, pillow cases, table linens, etc. Interstate Dry Goods Syndicate. 418,471; Dec. 25; Serial No. 484,346; published Sept. 25, 1945.
Textile fabrics in the piece. Crest Fabrics Corp. 418,492; Dec. 25; Serial No. 486,354; published Sept. 25, 1945.
Woolen cloths. American Woolen Company. 50,166; re-renewed Mar. 6, 1946. O. G. Dec. 25.

CLASS 44

Arch supports. Scholl Mfg. Co., Inc. 418,490; Dec. 25; Serial No. 486,121; published Oct. 16, 1945.
Container and device for delivering measured amounts of solid, semi-solid or gelatinous materials. Horton & Converse. 418,475; Dec. 25; Serial No. 484,489; published Oct. 16, 1945.
Devices equipped with dental floss. J. E. Dembenskl. 418,444; Dec. 25; Serial No. 471,208; published Oct. 16, 1945.
Sanitary napkins. Kroger Grocery & Baking Company. 418,447; Dec. 25; Serial No. 473,255; published Oct. 16, 1945.
Teeth, Acrylic. Coralite Dental Products Company. 418,487; Dec. 25; Serial No. 485,758; published Oct. 16, 1945.

CLASS 45

Beverages, Nonalcoholic, maltless. Dr. Pepper Company. 418,485–6; Dec. 25; Serial No. 485,629–30; published Oct. 2, 1945.
Beverages, Nonalcoholic maltless. Phillips Brothers. 206,027; renewed Nov. 24, 1945. O. G. Dec. 25.

CLASS 46

Acids, alcohol, denatured, baking powder, bluing, etc., Tartaric and citric. B. A. Railton Company. 204,204; renewed Oct. 13, 1945. Dec. 25.
Bread. Firch Baking Company, Inc. 209,346; renewed Feb. 23, 1946. O. G. Dec. 25.
Candy. W. Brownley. 46,254; re-renewed Sept. 12, 1945. O. G. Dec. 25.
Canned corn. Big Stone Canning Co. 209,926; renewed Mar. 2, 1946. O. G. Dec. 25.
Canned fish in olive oil, salt, vinegar, and in pickle. J. I. Azumendi. 201,149; renewed July 21, 1945. O. G. Dec. 25.
Canned vegetables and fruits. S. J. Seneca. 50,291; re-renewed Mar. 6, 1946. O. G. Dec. 25.
Cheese, Imported Swiss gruyère. C. E. Zuercher & Co. 208,409; renewed Feb. 2, 1946. O. G. Dec. 25.
Coffee. Lexington Coffee Company. 208,471; renewed Feb. 2, 1946. O. G. Dec. 25.
Coffee. Young & Griffin Coffee Co. Inc. 209,869; renewed Mar. 2, 1946. O. G. Dec. 25.
Feed, stock feed, poultry feed, etc., Horse and dairy. Heise Brothers. 209,773; renewed Mar. 2, 1946. O. G. Dec. 25.
Flour, Wheat. Fisher Flouring Mills Company. 208,254; renewed Jan. 26, 1946. O. G. Dec. 25.
Flour, Wheat. Hurst-Boillin Co. 209,328; renewed Feb. 23, 1946. O. G. Dec. 25.
Fruit cookies. Sunnykline Food Products Co. 207,933; renewed Jan. 12, 1946. O. G. Dec. 25.
Fruits, Fresh citrous. Irwindale Citrus Association. 209,837; renewed Mar. 2, 1946. O. G. Dec. 25.
Lard. Cudahy Packing Co. 50,295; re-renewed Mar. 6, 1946. O. G. Dec. 25.

CLASS 47

Grits, Brewers'. Kellogg Company. 418,491; Dec. 25; Serial No. 486,260; published Oct. 9, 1945.
Wines. Padre Vineyard Company. 418,482; Dec. 25; Serial No. 485,539; published Oct. 9, 1945.
Wines, Bitter. J. Triner. 48,569; re-renewed Jan. 2, 1946. O. G. Dec. 25.

CLASS 48

Beverages, Malt. Phillips Brothers. 206,146; renewed Nov. 24, 1945. O. G. Dec. 25.

CLASS 49

Brandy. Padre Vineyard Company. 418,481; Dec. 25; Serial No. 485,538; published Oct. 9, 1945.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Du Pont, E. I., de Nemours & Company: *See*—
Williams, William W., assignor.
Moseley, Francis L., Osborn, Ohio, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Aircraft flight indicator and control system therefor. Re. 22,704; Dec. 25.
Sperry Gyroscope Company, Inc: *See*—
Moseley, Francis L., assignor.
Williams, William W., Albany, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of azo dyestuffs. Re. 22,705; Dec. 25.

# LIST OF PLANT PATENTEES

Duehrsen, Carl G., assignor to Howard & Smith, Montebello, Calif. Rose plant. Pl. Pat. 664; Dec. 25.
Howard, Frederick H., assignor to Howard & Smith, Montebello, Calif. Rose plant. Pl. Pat. 665; Dec. 25.
Howard & Smith: *See*—
Duehrsen, Carl G., assignor.
Howard, Frederick H., assignor.

# LIST OF DESIGN PATENTEES

Abrams, Howard, University Heights, Ohio. Smoking pipe. 143,257; Dec. 25.
Aker, Leonard, Atherton, Calif., assignor, by mesne assignments, to Fairbanks, Morse & Co. Intermediate bearing and bearing retainer for rotating shaft positioned in a column. 143,258; Dec. 25.
Aldridge, Albert E., Elkins Park, assignor to Sun Oil Company, Philadelphia, Pa. Combined dispensing and article display cabinet. 143,259; Dec. 25.
Altman, Peter, Detroit, assignor to Continental Motors Corporation, Muskegon, Mich. Portable engine power unit housing. 143,260; Dec. 25.
American Gas Machine Company: *See*—
Stempel, E. H., and Rasmussen, assignors.
Apex Electrical Manufacturing Co., The: *See*—
Chapman, David, assignor.
Barrett, Alfred L., Staten Island, N. Y. Game board. 143,261; Dec. 25.
Behr, Siegfried, Flushing, N. Y. Hair ornament. 143,262; Dec. 25.
Bendix Aviation Corporation: *See*—
Gilbert, Henry, assignor.
Murphy, Norman B., assignor.
Bergman, Daniel T., San Francisco, Calif. Saucepan. 143,263; Dec. 25.
Boe, Carsten F., Wilmington, Del. Atomizer. 143,264; Dec. 25.
Brainard, George C., Youngstown, Ohio, and R. Loewy, New York, N. Y., assignors to The General Fireproofing Company, Youngstown, Ohio. Desk. 143,265; Dec. 25.
Brainard, George C., Youngstown, Ohio, and R. Loewy, New York, N. Y., assignors to The General Fireproofing Company, Youngstown, Ohio. Desk. 143,266; Dec. 25.
Burgess Battery Company: *See*—
Schofield, Earl L., assignor.
Burtis, Eric, Los Angeles, Calif. Cigarette box or similar receptacle. 143,267; Dec. 25.
Cameron, Margaret M., New York, N. Y. Child's bib. 143,268; Dec. 25.
Canepa, John B., Redwood City, Calif. Ash tray. 143,269; Dec. 25.
Chapman, David, Chicago, Ill., assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Washing machine. 143,270; Dec. 25.
Collura, Francesco, New York, N. Y., assignor to The Eagle Lock Company, Terryville, Conn. Padlock. 143,271; Dec. 25.
Colonial Mfg. Co., Inc.: *See*—
Gantwarg, Charles, assignor.
Condon, Martin J.: *See*—
Filer, Adelbert F., assignor.
Continental Motors Corporation: *See*—
Altman, Peter, assignor.
Tandler, W. S., and de Weiss, assignors.
Couse Laboratories: *See*—
Suiphen, Robert M., assignor.
Crane Co.: *See*—
Dreyfuss, Henry, assignor.
Zinkil, R. H., and Dreyfuss, assignors.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,272; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,273; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,274; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,275; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,276; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,277; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,278; Dec. 25.
Dabrohua, Castro M., Winnetka, Ill. Toy building block. 143,279; Dec. 25.
Darnell, Victor L., Centerville, assignor to The Master Electric Company, Dayton, Ohio. Switch housing. 143,280; Dec. 25.
Deleit Enterprises, Inc.: *See*—
de Waltoff, Samuel A., assignor.
De Pirro, Chris A., Chicago, Ill. Baby carrier. 143,281; Dec. 25.
De Pirro, Chris A., Chicago, Ill. Baby carrier. 143,282; Dec. 25.
De Pirro, Chris A., Chicago, Ill. Baby carrier. 143,283; Dec. 25.
De Pirro, Chris A., Chicago, Ill. Baby carrier. 143,284; Dec. 25.
De Vorn, Arthur C., Cleveland Heights, Ohio. Rocking horse. 143,285; Dec. 25.
De Waltoff, Samuel A., assignor to Deleit Enterprises, Inc., Los Angeles, Calif. Combined needle threader and needle card holding device. 143,286; Dec. 25.
De Weiss, Ferdinand A.: *See*—
Tandler, W. S., and de Weiss.
Dreyfuss, Henry: *See*—
Zinkil, R. H., and Dreyfuss.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago, Ill. Faucet handle or the like. 143,287; Dec. 25.
Dreyfuss, Henry, New York, N. Y., assignor to Crane Co., Chicago Ill. Escutcheon for sink fittings. 143,288; Dec. 25.
Eagle Lock Company, The: *See*—
Collura, Francesco, assignor.
Electric Household Utilities Corporation: *See*—
Gerhardt, A. H., and Schulz, assignors.
Electric Service Manufacturing Co.: *See*—
Hallman, Eric B., assignor.
Elsas, William D., Kew Gardens, P. Lowengardt, Forest Hills, and A. Scheftel, New York, N. Y. Closure cap for a two-compartment container. 143,289; Dec. 25.
Elson, Eugene M., Los Angeles, Calif. Infant's dressing and rubbing table. 143,290; Dec. 25.
Estel, George A.: *See*—
Thompson, E. B., and Estel, assignors.
Even-Pul Foundations, Inc.: *See*—
Lo Casclo, Jack J., assignor.
Fairbanks, Morse & Co.: *See*—
Aker, Leonard, assignor.
Farber, Simon W., Brooklyn, N. Y. Pressure cooker. 143,291; Dec. 25.

Farber, Simon W., Brooklyn, N. Y. Pressure cooker. 143,292; Dec. 25.

Federal Telephone and Radio Corporation: *See*—
Haigh, L. B., and Stearn, assignors.

Feild, Joseph L., Detroit, Mich. Surface sander. 143,293; Dec. 25.

Fier, Adelbert F., assignor of one-half to M. J. Condon, Memphis, Tenn. Figure toy. 143,294; Dec. 25.

Fisher, EdWill, Minneapolis, Minn., assignor to Fisher Flame. Cigarette and cigar lighter. 143,295; Dec. 25.

Fisher Flame: *See*—
Fisher, EdWill, assignor.

Frederics, Fred, New York, N. Y. Bottle. 143,296; Dec. 25.

Frifari, Krussman & Fishel Inc.: *See*—
Philippe, Alfred, assignor.

Gantwarg, Charles, assignor to Colonial Mfg. Co., Inc., New York, N. Y. Finger ring. 143,297; Dec 25.

General Fireproofing Company, The: *See*—
Brainard, George C., and Loewy, assignors.

General Motors Corporation: *See*—
Jergenson, George A., assignor.

Gerhardt, Andrew H., Skokie, and A. P. Schulz, Hinsdale, assignors to Electric Household Utilities Corporation, Chicago, Ill. Combined ironing machine and stand. 143,298; Dec. 25.

Gerhardt, Andrew H., Skokie, and A. P. Schulz, Hinsdale, assignors to Electric Household Utilities Corporation, Chicago, Ill. Combined ironing machine, lap board, and stand. 143,299; Dec. 25.

Gerson, Samuel L., Millville, N. J. Ash tray. 143,300; Dec. 25.

Gilbert, Henry, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Mixing device. 143,301; Dec. 25.

Gilly, Charles G.: *See*—
Post, George V., assignor.

Gilly, Mary V.: *See*—
Post, George V., assignor.

Globe Milker, Inc.: *See*—
Thompson, E. B., and Estel, assignors.

Goddeau, Guy F., assignor to Liquid Carbonic Corporation, Chicago, Ill. Gas saver. 143,302; Dec. 25.

Golden, Zelma, New York, N. Y. Dress. 143,303; Dec. 25.

Golden, Zelma, New York, N. Y. Dress. 143,304; Dec. 25.

Golden, Zelma, New York, N. Y. Dress. 143,305; Dec. 25.

Golden, Zelma, New York, N. Y. Jacket. 143,306; Dec. 25.

Golden, Zelma, New York, N. Y. Jacket. 143,307; Dec. 25.

Goldinger Fabrics Company: *See*—
Park, Arthur Y., assignor.

Goodman, L. A., Manufacturing Company, et al.: *See*—
Lumbard, Edward B., assignor.

Goodman, Louis A., et al.: *See*—
Lumbard, Edward B., assignor.

Goodman, Tillye W., et al.: *See*—
Lumbard, Edward B., assignor.

Haigh, Leslie B., West Orange, and F. A. Stearn, Westfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Telephone jack bracket. 143,308; Dec. 25.

Haigh, Leslie B., West Orange, and F. A. Stearn, Westfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Telephone jack bracket. 143,309; Dec. 25.

Hallman, Eric B., assignor to Electric Service Manufacturing Co., Philadelphia, Pa. Vehicle signal light. 143,310; Dec. 25.

Harper, Pearl, Los Angeles, Calif. Compact. 143,311; Dec. 25.

Harrington, Houston, Macon, Miss. Combination airplane and submarine. 143,313; Dec. 25.

Harriton, David M., New York, N. Y. Table. 143,312; Dec. 25.

Hart, Fred E., deceased, late of South Gate, Calif., by R. L. Hart, South Gate, Calif., executrix. Toothbrush holder. 143,314; Dec. 25.

Hart, Ruth L., executrix: *See*—
Hart, Fred E.

Hatcher, Glenn B., Tulsa, Okla. Marble runway toy. 143,315; Dec. 25.

Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Engine starter. 143,316; Dec. 25.

Hobé, William W., New York, N. Y. Bracelet or similar article. 143,317; Dec. 25.

Hobé, William W., New York, N. Y. Brooch pin or similar article. 143,318; Dec. 25.

Holley, Robert, Penfield Downs, Pa., assignor to Radio Corporation of America. Instrument case. 143,319; Dec. 25.

Horton, Myer B., New York, N. Y. Display stand or similar article. 143,320; Dec. 25.

Hubbard, Marion L., Carmel, N. Y. Teacup. 143,321; Dec. 25.

Jack & Heintz, Inc.: *See*—
Heintz, Ralph M., assignor.

Jergenson, George A., assignor to General Motors Corporation, Detroit, Mich. Railway car body. 143,322; Dec. 25.

Jergenson, George A., assignor to General Motors Corporation, Detroit, Mich. Railway car body. 143,323; Dec. 25.

Jergenson, George A., assignor to General Motors Corporation, Detroit, Mich. Railway car. 143,324; Dec. 25.

Kantor, Norman E., New York, N. Y. Combined ash tray and cigarette server, or the like. 143,325; Dec. 25.

Kempf, Herman H., Garden City, N. Y. Razor handle. 143,326; Dec. 25.

La Forte, Michael J., Park Ridge., assignor to Vaughan Novelty Mfg. Co., Chicago, Ill. Can opener. 143,327; Dec. 25.

La Plant-Choate Manufacturing Co., Inc.: *See*—
Rockwell, Harvey W., assignor.

Lederer, George J., assignor to Providence Stock Company, Providence, R. I. Bracelet. 143,328; Dec. 25.

Leonard, Otto W., Lynchburg, Ohio. Milk can cart. 143,329; Dec. 25.

Lindsay, Myrtle E., Los Angeles, Calif. Hair curler or the like. 143,330; Dec. 25.

Liquid Carbonic Corporation: *See*—
Goddeau, Guy F., assignor.

Lo Casclo, Jack J., Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y. Brassière. 143,321; Dec. 25.

Loewy, Raymond: *See*—
Brainard, George C., and Loewy.

Lowengardt, Paul: *See*—
Elsas, W. D., Lowengardt, and Scheftel.

Lumbard, Edward B., assignor to L. A. and T. W. Goodman and T. W. Goodman as trustee, a co-partnership doing business as L. A. Goodman Manufacturing Company, Chicago, Ill. Toy figure. 143,332; Dec. 25.

Macpherson, Harold C., San Francisco, Calif. Display stand. 143,333; Dec. 25.

Marienthal, Heidi, New York, N. Y. Combined radio cabinet and cigarette container. 143,334; Dec. 25.

Marienthal, Heidi, New York, N. Y. Combined music box and cigarette container. 143,335; Dec. 25.

Martin, J. A., Mrs.: *See*—
Post, George V., assignor.

Marzullo, Anna: *See*—
Porcelli, Peter, assignor.

Master Electric Company, The: *See*—
Darnell, Victor L., assignor.

Montague, Harry, et al.: *See*—
Trilling, D. M., and Rich, assignors.

Morrison, John W., Cincinnati, Ohio. Lighting fixture. 143,336; Dec. 25.

Morrow, Frank, Johnston, R. I. Jewelry pin or similar article. 143,337; Dec. 25.

Morrow, Frank, Johnston, R. I. Earring. 143,338; Dec. 25.

Morrow, Frank, Johnston, R. I. Earring. 143,339; Dec. 25.

Murphy, Norman B., Englewood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Automatic pilot turn control unit for aircraft. 143,340; Dec. 25.

Oertle, Lawrence C., Sr., Milwaukee, Wis. Scaffold frame. 143,341; Dec. 25.

Pantzer, Arthur, New York, N. Y. Lighter or similar article. 143,342; Dec. 25.

Park, Arthur Y., Los Angeles, Calif., assignor to Goldinger Fabrics Company. Fabric. 143,343; Dec. 25.

Park, Arthur Y., Los Angeles, Calif., assignor to Goldinger Fabrics Company. Fabric. 143,344; Dec. 25.

Park, Arthur Y., Los Angeles, Calif., assignor to Goldinger Fabrics Company. Fabric. 143,345; Dec. 25.

Park, Arthur Y., Los Angeles, Calif., assignor to Goldinger Fabrics Company. Fabric. 143,346; Dec. 25.

Park, Arthur Y., Los Angeles, Calif., assignor to Goldinger Fabrics Company. Fabric. 143,347; Dec. 25.

Pestyner, Philip, Jamaica, N. Y. Necktie rack. 143,348; Dec. 25.

Philippe, Alfred, Scarsdale, N. Y., assignor to Frifari, Krussman & Fishel Inc., New York, N. Y. Necklace. 143,349; Dec. 25.

Polotaye, Frank, New York, N. Y., assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent lighting fixture. 143,350; Dec. 25.

Porcelli, Peter, assignor to A. Marzullo, New York, N. Y. Airplane or similar article. 143,351; Dec. 25.

Post, George V., Cincinnati, Ohio, assignor to C. G. Gilly, Cincinnati, Ohio, (Mrs.) J. A. Martin, Big Stone Gap., and M. V. Gilly, Richmond, Va. Combined coaster and ash tray. 143,352; Dec. 25.

Providence Stock Company: *See*—
Lederer, George J., assignor.

Radio Corporation of America: *See*—
Holley, Robert, assignor.

Rasmussen, Sophus: *See*—
Stempel, E. H., and Rasmussen.

Rich, George H.: *See*—
Trilling, D. M., and Rich.

Rockwell, Harvey W., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Bulldozer. 143,353; Dec. 25.

Rundell, Wesley A., Louisville, Ky. Dresser base or similar article. 143,354; Dec. 25.





Schaefer, Benjamin, Jamaica, N. Y. Intermediate section of a fluorescent lamp fixture shield. 143,355; Dec. 25.

Schaefer, Benjamin, Jamaica, N. Y. End section of a fluorescent lamp fixture shield. 143,356; Dec. 25.

Scheftel, Alexander: *See*—
Elsas, W. D., Lowengardt, and Scheftel.

Schofield, Earl L., Rockford, Ill., assignor to Burgess Battery Company, Freeport, Ill. Flashlight. 143,357; Dec. 25.

Schofield, Earl L., Rockford, Ill., assignor to Burgess Battery Company, Freeport, Ill. Flashlight. 143,358; Dec. 25.

Schulz, Arthur P.: *See*—
Gerhardt, A. H., and Schulz.

Smith, Lowell L., Webster City, Iowa. Nozzle attachment for air hose or the like. 143,359; Dec. 25.

Solar Corporation: *See*—
Stevens, Clifford B., assignor.

Soundscriber Corporation, The: *See*—
Stone, Robert L., assignor.

Stearn, Franklin A.: *See*—
Haigh, L. B., and Stearn.

Stempel, Edward H., and S. Rasmussen, assignors to American Gas Machine Company, Albert Lea, Minn. Sportsman's stove. 143,360; Dec. 25.

Stevens, Clifford B., assignor to Solar Corporation, Milwaukee, Wis. Battery. 143,361; Dec. 25.

Stevens, Clifford B., assignor to Solar Corporation, Milwaukee, Wis. Battery. 143,362; Dec. 25.

Stone, Robert L., Guilford, assignor to The Soundscriber Corporation, New Haven, Conn. Desk microphone. 143,363; Dec. 25.

Storch, Edward A., Detroit, Mich. Table top tray. 143,364; Dec. 25.

Sun Oil Company: *See*—
Aldridge, Albert E., assignor.

Sutphen, Robert M., assignor to Couse Laboratories, Newark, N. J. Combination submarine and land tank. 143,365; Dec. 25.

Sylvania Electric Products Inc.: *See*—
Polotaye, Frank, assignor.

Tandler, William S., and F. A. de Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich. Portable engine power unit housing. 143,366; Dec. 25.

Tandler, William S., and F. A. De Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich. Portable engine power unit housing. 143,367; Dec. 25.

Tandler, William S., and F. A. De Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich. Portable engine power unit housing. 143,368; Dec. 25.

Thompson, Elmer B., and G. A. Estel, Jr., assignors, by mesne assignments, to Globe Milker, Inc., Des Moines, Iowa. Head unit for a milking machine. 143,369; Dec. 25.

Thornton, Ray F., Dearborn, Mich. Dual motor power unit. 143,370; Dec. 25.

Trasso, Giovanni, Hanford, Calif. Smoking pipe. 143,371; Dec. 25.

Trew, James W.: *See*—
Wallace, G. W., and Trew.

Trilling, David M., et al.: *See*—
Trilling, D. M., and Rich, assignors.

Trilling, David M., Merlon, and G. H. Rich, Philadelphia, assignors to D. M. Trilling, Merlon, and H. Montague, Philadelphia, Pa. Space heater. 143,372; Dec. 25.

Ujlaki, George S., Company: *See*—
Wormley, Edward J., assignor.

Vaughan Novelty Mfg. Co.: *See*—
La Forte, Michael J., assignor.

Vreeland, George W., St. Paul, Minn. Picture frame spacer. 143,373; Dec. 25.

Walden, Homer M., deceased, Houston, Tex.; L. T. Weber, executor. Finger ring. 143,374; Dec. 25.

Wallace, George W., Waynesboro, and J. W. Trew, Gettysburg, Pa. Combined fruit display and container unit. 143,375; Dec. 25.

Weber, Llevin T., executor: *See*—
Walden, Homer M.

Weisburgh, Herbert L., New Rochelle, N. Y. Combination radio and phonograph table. 143,376; Dec. 25.

Weston, Alexander S., New York, N. Y. Table lighter or similar article. 143,377; Dec. 25.

Williams, Eugene, Washington, Mo. Atomizer. 143,378; Dec. 25.

Wormley, Edward J., assignor to G. S. Ujlaki Company, New York, N. Y. Receptacle for infant's food. 143,379; Dec. 25.

Zemby, Zachary, Los Angeles, Calif. Compact or similar article. 143,380; Dec. 25.

Zigmant, Frank, Los Angeles, Calif. Cigarette lighter. 143,381; Dec. 25.

Zinkil, Roy H., Oak Park, Ill., and H. Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill. Faucet handle or the like. 143,382; Dec. 25.

Zinkil, Roy H., Oak Park, Ill., and H. Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill. Cover plate for a bath supply fitting or the like. 143,383; Dec. 25.

Zinkil, Roy H., Oak Park, Ill., and H. Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill. Cover plate for a lavatory supply and waste fitting or the like. 143,384; Dec. 25.

Zinkil, Roy H., Oak Park, Ill., and H. Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill. Cover plate for a beveled panel back lavatory supply and waste fitting or the like. 143,385; Dec. 25.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acrotorque Company, The: *See*—
Orshansky, Elias, Jr., assignor.

Adams, Merrill L.: *See*—
Hearne, G. W., and Adams.

Addressograph-Multigraph Corporation: *See*—
Gollwitzer, Walter T., assignor.

Agriculture, of the United States of America, and his successors in office, Claude R. Wickard, Secretary of: *See*—
Stamm, A. J., and Turner, assignors.

Agriculture of the United States of America, as represented by the Secretary of: *See*—
Ross, W. H., Shipley, Mullins, and Hardesty.

Aiken, Thomas McG., Pittsburgh, Pa. Camera shutter. 2,391,377; Dec. 25.

Air Preheater Corporation, The: *See*—
Yerrick, W. D., and Jensen, assignors.

Alien Property Custodian, The: *See*—
Marquet, Georges, assignor.

Allied Control Company, Inc.: *See*—
Chichester, Kenneth J., assignor.
Ebert, Joseph F., assignor.
Ineson, Clifton H., assignor.
Reutter, Frederick R., assignor.

Allis-Chalmers Manufacturing Company: *See*—
Campbell, Richard D., assignor.
Jacobi, Louis, assignor.
Kenney, Clarence E., assignor.
Linn, James G., assignor.
Scranton, Charles J., assignor.
Shaw, Ernest C., assignor.
Winograd, Harold, assignor.

Altimus, Miles, Nanty Glo, assignor to Irwin Foundry & Mine Car Company, Irwin, Pa. Safety locking lever for coupling pins. 2,391,610; Dec. 25.

Aluminum Company of America: *See*—
Fiscus, Charles J., assignor.
Slunder, Charles J., assignor.

American Brake Shoe Company: *See*—
Hart, C. S., and Spokes, assignors.

American Chain & Cable Company, Inc.: *See*—
Mische, Henry J., assignor.

American Cyanamid Company: *See*—
Dixon, James K., assignor.
Jayne, D. W., Jr., and Day, assignors.
Kienele, R. H., and Amick, assignors.
King, V. L., and Orem, assignors.
Sayward, John M., assignor.
Thurston, J. T., and Sperry, assignors.

American Engineering Company: *See*—
Lawrence, Howard F., assignor.

American Lecithin Company: *See*—
Julian, P. L., and Meyer, assignors.

American Porcelain Enamel Company: *See*—
Long, Robert, assignor.

American Smelting and Refining Company: *See*—
Thomas, M. D., and Ivie, assignors.

American Viscose Corporation: *See*—
House, Harrison D., assignor.

American Well Works, The: *See*—
Walker, James D., assignor.

Amick, Chester A.: *See*—
Kienel, R. H., and Amick.

Amos, James L., Midland, and F. J. Soderquist, Bay City, assignors to The Dow Chemical Company, Midland, Mich. Pyrolysis of alkanols. 2,391,667; Dec. 25.

Ams, Max, Machine Company, The: *See*—
Diezel, Willy, assignor.

Anderson, Edward M., and D. H. Morris, Monaca, Pa. Clothes post. 2,391,536; Dec. 25.

Anderson, George Y., Milwaukee, assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Crane boom suspension. 2,391,440; Dec. 25.

Anderson, Hilton J.: *See*—
Fuglie, E. A., and Anderson.

Anderson, Roger, Seattle, Wash. Ambulatory rotating reduction and fixation splint. 2,391,537; Dec. 25.

Anderson, William G., Kennedy, Minn. Thin swath booster. 2,391,763; Dec. 25.

Andrews, Bernard R., Braintree, Mass. Drying apparatus. 2,391,764; Dec. 25.

Angell, Charles H.: *See*—
Newhardt, Joseph B., assignor.

Anglo-Iranian Oil Company Limited: *See*—
Fawcett, E. W. M., and Narracott, assignors.

Ardussi, Wallace F.: *See*—
Mackmann, A., and Ardussi.

Armstrong Siddeley Motors Limited: *See*—
Heppner, Fritz A. M., assignor.

Armstrong, Wayne, Woodland, Calif. Front end loader. 2,391,538; Dec. 25.

Artzt, Maurice, Haddonfield, N. J. Facsimile apparatus. 2,391,765; Dec. 25.

Atherton, Harold S.: *See*—
Richards, A. B., and Atherton.

Attarl, Hatim: *See*—
Nussbaum, Leon, assignor.

Austin, Kirby B., Bridgeport, Conn., assignor to General Electric Company. Mounting means. 2,391,668; Dec. 25.

Automatic Electric Laboratories, Inc.: *See*—
Burgener, Karl L., assignor.
Grimes, Harlan E., assignor.
Woodruff, Albert E., assignor.

Avery, Ray S., Los Angeles, Calif. Making pressure sensitive labels. 2,391,539; Dec. 25.

Aviation Research and Development Corporation: *See*—
Raspet, August, assignor.

Avis, Harriette M., administratrix: *See*—
Avis, Samuel W.

Avis, Samuel W., deceased, late of Wellesley, Mass., by Harriette M. Avis, administratrix, Wellesley, assignor to The Reece Button Hole Machine Company, Boston, Mass. 2,391,378; Dec. 25.

Babcock & Wilcox Company, The: *See*—
Schoessow, Earl E., assignor.

Back, Franz G., New York, N. Y., assignor to Gastro-Photor Laboratories Corp. Illuminating arrangement. 2,391,611; Dec. 25.

Baer, John M., Chicago, Ill., assignor to The Guardite Corporation. Drying raw organic materials. 2,391,441; Dec. 25.

Bagwell, Hardy L., Ware Shoals, S. C., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,391,379; Dec. 25.

Bahner, Carl T., Jefferson City, Tenn. Ethers of primary nitroalkanes and preparing them. 2,391,815; Dec. 25.

Baird Machine Company, The: *See*—
Lewis, A. J., and Barnes, assignors.

Baker, Albert D., Linden, N. J., assignor to General Motors Corporation, Detroit, Mich. Signaling device. 2,391,669; Dec. 25.

Baker, Arthur L. L., Sevenoaks, England. Jetty, wharf, and like berthing place for vessels. 2,391,612; Dec. 25.

Baker Perkins Inc.: *See*—
Engels, Eugene O., assignor.

Barker, Percy E., Pepper Pike Village, Ohio. Valve control for internal-combustion engines. 2,391,380; Dec. 25.

Barnes, Leslie W.: *See*—
Lewis, A. J., and Barnes.

Barnhart, George E., Pasadena, Calif. Manufacturing tubes. 2,391,766; Dec. 25.

Battelle Memorial Institute: *See*—
Jackson, L. R., and Stewart, assignors.

Bay, Thomas J., and M. R. Machol, Washington, D. C. Heat dissipating system for bearings. 2,391,670; Dec. 25.

Beach, Lennox F., Merrick, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyromagnetic compass. 2,391,442; Dec. 25.

Bean, Xarifa, Yellow Springs, Ohio. Plaster body and making. 2,391,855; Dec. 25.

Beckman, Charles H., St. Louis, Mo. Prevention and treatment of canine encephalitis. 2,391,540; Dec. 25.

Beerend, Ray F., Bay Village, Ohio. Bake pan. 2,391,767; Dec. 25.

Belada, John, Glassboro, N. J., assignor to Owens-Illinois Glass Company. Feed control for lining machines. 2,391,381; Dec. 25.

Belchetz, Arnold, Larchmont, N. Y., assignor to Stauffer Chemical Company. Purifying carbon disulphide. 2,391,541; Dec. 25.

Bell Telephone Laboratories, Incorporated: *See*—
Egerton, Lawson, assignor.
McLean, David A., assignor.
Pearson, Gerald L., assignor.

Bendix Aviation Corporation: *See*—
Spengler, Walter J., assignor.

Bennett, William O., Jr., Lancaster, Pa., assignor to Hamilton Watch Company. Hairspring collet. 2,391,816; Dec. 25.

Benson B. Howard: *See*—
Mendelsohn, Bernard E., assignor.

Berg, William M., New York, N. Y. Self-releasing die holder. 2,391,671; Dec. 25.





Bernard, Jau L., Southwell, England. Gas lift pumping apparatus. 2,391,542; Dec. 25.

Bilan, John, Flint, Mich. Heating unit. 2,391,382; Dec. 25.

Black, Crayton K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coloring wood. 2,391,613; Dec. 25.

Black and Decker Manufacturing Company, The: *See*—
Decker, Alonzo G., Jr., assignor.

Blackburn, Billee O., Kensington Park District, assignor to Shell Development Company, San Francisco, Calif. Rubberlike copolymers and making. 2,391,817; Dec. 25.

Blain, Albert, Philadelphia, Pa., assignor to Radio Corporation of America. Facsimile recorder. 2,391,768; Dec. 25.

Blechman, Irving, New York, N. Y. Collapsible wardrobe cabinet. 2,391,614; Dec. 25.

Bloomquist, Evert V., Wausau, Wis. Separable packing unit. 2,391,383; Dec. 25.

Boehne, Eugene W., Drexel Hill, Pa., and H. A. Peterson, Scotia, N. Y., assignors to General Electric Company. Eliminating the switching overvoltage hazard in alternating current circuits. 2,391,672; Dec. 25.

Bohlen, Charles, Jr., Jenkintown, Pa. Landing gear for trailers. 2,391,384; Dec. 25.

Bonner, James: *See*—
English, J., Jr., Bonner, and Haagen-Smit.

Booth, Harry T.: *See*—
Cruzan, H., and Booth.

Boral, Max, New York, N. Y. Fountain pen. 2,391,385; Dec. 25.

Borden Company, The: *See*—
Bradshaw, L., and Stachel, assignors.

Bradley, William E., Northampton, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Harmonic generator. 2,391,386; Dec. 25.

Bradshaw, Lawrence, Bainbridge, N. Y., and C. L. Stachel, Detroit, Mich., assignors to The Borden Company, New York, N. Y. Making adhesive material. 2,391,387; Dec. 25.

Brandt, David G., Westfield, N. J., assignor to Cities Oil Company, New York, N. Y. Process for manufacturing alkyl benzene hydrocarbons. 2,391,818; Dec. 25.

Brassert, H. A., & Company: *See*—
Bruton, Albert L., assignor.

Brondy, Albert M., Pittsburgh, Pa. Envelope. 2,391,673; Dec. 25.

Brown, Arthur S., and G. E. Sedgley, Tilton, N. H. Making transmission belts. 2,391,674; Dec. 25.

Brown, Leo H., New York, N. Y. Stereoscope. 2,391,675; Dec. 25.

Browning, Leander, Greenwood, Ind. Pneumatic pruning shear. 2,391,676; Dec. 25.

Brunswick-Balke-Collender Company, The: *See*—
Bebiak, Alfred F., assignor.

Bruton, Albert L., London, England, assignor to H. A. Brassert & Company, New York, N. Y. Removal of deposits from the interior surfaces of coke ovens. 2,391,443; Dec. 25.

Bryan, Edward W.: *See*—
Marschner, C. F., and Bryan.

Bucyrus-Erie Company: *See*—
Anderson, George Y., assignor.

Budd, Edward G., Manufacturing Company: *See*—
Watter, Michael, assignor.

Buffalo Electro-Chemical Company: *See*—
Kauffmann, H. O., and Margulies, assignors.

Bulbulian, Arthur H., Rochester, Minn. High altitude oxygen supplying mask. 2,391,677; Dec. 25.

Bullard, Earl J., Altadena, Calif. Grinding and lapping machine. 2,391,388; Dec. 25.

Bundy, Francis P., Medford, Mass., assignor to United States of America, as represented by the Secretary of the Navy. Magnetostriction transducer. 2,391,678; Dec. 25.

Burch, Lyndon W., Pelham, N. Y. Self-locking relay. 2,391,444; Dec. 25.

Burge, James S., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for supplying wire from wire supply spools to bending presses. 2,391,679; Dec. 25.

Burgener, Karl L., Villa Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,391,389; Dec. 25.

Burrell Technical Supply Company: *See*—
Carlson, George W., assignor.

Burroughs Adding Machine Company: *See*—
Fettig, Arthur J., assignor.

California Institute Research Foundation: *See*—
English, J., Jr., Bonner, and Haagen-Smit, assignors.

Campbell, Richard D., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Self-priming pump. 2,391,769; Dec. 25.

Cangelosi, Blanche Du B., Lowell, Mass. Combination undergarment. 2,391,770; Dec. 25.

Carbide and Carbon Chemicals Corporation: *See*—
Doolittle, Arthur K., assignor.
Powell, G. M., III, and McKnight.
Quarles, R. W., and Doolittle, assignors.

Carlson, Chester F., New York, N. Y., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark plug electrode construction. 2,391,457; Dec. 25.

Carlson, George W., Bridgeville, assignor to Burrell Technical Supply Company, Pittsburgh, Pa. Manifold support for gas analysis apparatus. 2,391,390; Dec. 25.

Caron, Joseph V., Haverhill, Mass. Making heat interchange apparatus. 2,391,615; Dec. 25.

Carr, Joseph W., and T. B. Clarke, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Heel attaching machine. 2,391,543; Dec. 25.

Causer, Herbert W., Weymouth, assignor to Factory Mutual Research Corporation, Boston, Mass. Fog producing device. 2,391,616; Dec. 25.

Celanese Corporation of America: *See*—
Haney, C. I., and Martin, assignors.

Central Aircraft Corporation: *See*—
Mullen, Charles F., assignor.

Central Railway Signal Company: *See*—
Edmands, John W., assignor.

Chandler-Evans Corporation: *See*—
Twyman, Harold F., assignor.

Chapman, Henry O., Cedarhurst, and R. Evans, Bronxville, N. Y. Housing unit. 2,391,544; Dec. 25.

Chichester, Kenneth J., Flushing, assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Terminal element. 2,391,391; Dec. 25.

Chodorow, Marvin, New York, N. Y., assignor to Maguire Industries, Incorporated. Self-pulsing circuit. 2,391,545; Dec. 25.

Chodorow, Marvin, New York, N. Y., assignor to Maguire Industries, Incorporated. Magnetic multivibrator. 2,391,546; Dec. 25.

Chrisman, Ernest L.: *See*—
Weber, A. J., and Chrisman.

Church, Arthur E.: *See*—
Grindrod, T. H., and Church.

Cities Service Oil Company: *See*—
Brandt, David G., assignor.
Morgan, John D., assignor.

Clark, Charles C., Columbus, Ohio. Time schedule calculator. 2,391,771; Dec. 25.

Clarke, Thomas B.: *See*—
Carr, J. W., and Clarke.

Coffin, Bruce A., Peabody, Mass. Golf tee. 2,391,392; Dec. 25.

Coffman, Raphael T., North Arlington, and B. M. Marks, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of organic liquids. 2,391,393; Dec. 25.

Coghill, Joseph A., Fanwood, N. J. Wrench. 2,391,394; Dec. 25.

Cohen, Eli A., Stoneham, Mass. Counter portion for shoes. 2,391,445; Dec. 25.

Cohen, Eli A., Stoneham, Mass. Making counter portions. 2,391,446; Dec. 25.

Cohn, Samuel, New York, and J. G. Walter, Ridgewood, N. Y. Fabric feeding system. 2,391,547; Dec. 25.

Colgate-Palmolive-Peet Company: *See*—
Walker, G. D., Oulsnam, and Krysa, assignors.

Collins Radio Company: *See*—
May, Richard W., assignor.

Comptois, Gedeon R., New York, N. Y. Tobacco pipe. 2,391,548; Dec. 25.

Conlan, David, New York, assignor to Conlan Electric Corporation, Brooklyn, N. Y. Door switch. 2,391,549; Dec. 25.

Conlan Electric Corporation: *See*—
Conlan, David, assignor.

Continental Can Company, Inc.: *See*—
Coyle, J., and Punte, assignors.
Eggers, Hans A., assignor.
Schmidt, John E., assignor.

Continental Motors Corporation: *See*—
Vincent, Edward T., assignor.

Cook, Leonard W., Stratford, Conn., assignor to General Electric Company. Lock-out switch for fluorescent lamp starters. 2,391,680; Dec. 25.

Cope, Wilfrid C., Whoberley, Coventry, England. Collet chuck. 2,391,550; Dec. 25.

Coyle, John, Baltimore, Md., and W. F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Collar can collar mounting. 2,391,772; Dec. 25.

Craig, Charles R., Pittsfield, Mass., assignor to General Electric Company. Gang-operating mechanism for switching devices. 2,391,681; Dec. 25.

Cramer, Richard R., Dayton, Ohio. Safety device. 2,391,682; Dec. 25.

Crebbs, Earl R., San Francisco, Calif. Dispensing receptacle. 2,391,617; Dec. 25.

Creson, William K., Lafayette, Ind., assignor to Ross Gear & Tool Company. Power steering gear. 2,391,819; Dec. 25.

Crompton & Knowles Loom Works: *See*—
Payne, Oscar V., assignor.
Turner, Richard G., assignor.

Cruzan, Harold, Dayton, Ohio, and H. T. Booth, Glencoe, Ill., said Cruzan assignor to United Aircraft Products, Inc., Dayton, Ohio. By-pass control valve. 2,391,551; Dec. 25.

Curtis, David, New York, N. Y. Stabilized aromatic compounds. 2,391,552; Dec. 25.

Cutler-Hammer, Inc.: *See*—
Hodgson, H. E., and Kuhn, assignors.

Daily, Robert A., Muncie, assignor to General Motors Corporation, Detroit, Mich. Storage battery. 2,391,820; Dec. 25.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and diazine derivatives. 2,391,683; Dec. 25.

Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,391,618; Dec. 25.

Day, Harold M.: *See*—
Jayne, D. W., Jr., and Day.

Debicki, Alfred F., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard table. 2,391,395; Dec. 25.

Decker, Alonzo G., Jr., Baltimore County, Md., assignor to The Black and Decker Manufacturing Company. Bit control for percussive tools. 2,391,553; Dec. 25.

De Forest, Lee, Los Angeles, Calif. Method of and apparatus for determining the ground speed and/or course of aircraft. 2,391,554; Dec. 25.

Denison, John S., Mellen, Wis. Drill. 2,391,396; Dec. 25.

De Simo, Martin, Piedmont, and Robert M. Roberts, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of dienes. 2,391,555; Dec. 25.

Dever, Franklin J., Columbus, Ohio. Beverage maker. 2,391,397; Dec. 25.

De Vlieg, Charles B., Detroit, Mich. Horizontal boring machine. 2,391,398; Dec. 25.

Diezel, Willy, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Seaming mechanism. 2,391,684; Dec. 25.

Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Cracking of alpha-methylstyrenes. 2,391,821; Dec. 25.

Doolittle, Arthur K.: *See*—
Quarles, R. W., and Doolittle.

Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Forming composite materials. 2,391,619; Dec. 25.

Dorr Company, The: *See*—
Rawlings, Franklin N., assignor.
Shafor, Ralph W., assignor.

Doty, Charles R., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Record controlled tape punching machine. 2,391,773; Dec. 25.

Douglas Aircraft Company, Inc.: *See*—
Kleinhans, E. S., and Reaser, assignors.

Dow Chemical Company, The: *See*—
Amos, J. L., and Soderquist, assignors.
Kirk, R. C., Nelson, and McConica, assignors.
McConica, Thomas H., III, assignor.
McConica, T. H., III, MacPhail, and Kirk, assignors.
Reid, James B., assignor.
Slagh, Harold R., assignor.

Draper Corporation: *See*—
Maurer, Albert, assignor.

Drennan, Harry E.: *See*—
Schulze, W. A., Hillyer, and Drennan.

Dryer, Charles G., assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of paraffins. 2,391,399; Dec. 25.

Dunn, Thomas H., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Drilling mud. 2,391,622; Dec. 25.

Du Pont, E. I., de Nemours & Company: *See*—
Black, Crayton K., assignor.
Coffman, R. T., and Marks, assignors.
Kingerley, Richard W., Jr., assignor.
Lazier, W. A., and Whitman, assignors.
Llewellyn, Walter E., assignor.
Rogers, Arthur O., assignor.

Dvornikoff, Michael N., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing 2-aminopyrimidines. 2,391,822; Dec. 25.

Easterford, William H.: *See*—
Watkins, A. E., and Easterford.

Eberle Tanning Company: *See*—
Elliott, Jack P., assignor.

Ebert, Joseph F., Hollis, assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Electrical relay. 2,391,400; Dec. 25.

Eddins, William N., San Antonio, and C. C. Thurman, Freer, Tex. Fluid pressure pump. 2,391,556; Dec. 25.

Edge, Dexter, Gary, Ind. Radiant heater. 2,391,447; Dec. 25.

Edmands, John W., Newton Highlands, Mass., assignor to Central Railway Signal Company, Newton, Mass. Igniter for grenades and the like. 2,391,823; Dec. 25.

Egerton, Lawson, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of halogenated compounds. 2,391,685; Dec. 25.

Egerton, Lawson, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of halogenated compounds. 2,391,689; Dec. 25.

Eggers, Hans A., Van Wert, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Container. 2,391,774; Dec. 25.

Eitel-McCullough, Inc.: *See*—
Eitel, W. W., and McCullough, assignors.

Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube. 2,391,690; Dec. 25.

Ejerson, Ejnar E., Stockholm, Sweden. Fountain pen. 2,391,557; Dec. 25.

Elliott, Jack P., assignor to Eberle Tanning Company, Westfield, Pa. Sanding machine. 2,391,448; Dec. 25.

Elliott, Jack P., assignor to Eberle Tanning Company, Westfield, Pa. Sanding drum. 2,391,449; Dec. 25.

Engels, Eugene O., assignor to Baker Perkins Inc., Saginaw, Mich. Workpiece depositor for dough molders. 2,391,691; Dec. 25.

English, James, Jr., Hamden, Conn., James Bonner, and Arie J. Haagen-Smit, Pasadena, Calif., assignors to California Institute Research Foundation. Synthesis of wound hormone. 2,391,824; Dec. 25.

Ensign, Elbert E.: *See*—
Newkirk, D. L., and Ensign.

Escher Wyss Maschinenfabriken Aktiengeselischaft: *See*—
Keller, Curt, assignor.

Essick, Bryant, Los Angeles, Calif. Pad for evaporative coolers. 2,391,558; Dec. 25.

Estes, Phillip H., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic relay. 2,391,692; Dec. 25.

Ettinger, Joe J., assignor to Zimmer Manufacturing Company, Warsaw, Ind. Surgical splint. 2,391,693; Dec. 25.

Evans, De Witt F.: *See*—
Schoen, F. C., Evans, and Schoen.

Evans, Randolph: *See*—
Chapman, H. O., and Evans.

Everett, Arthur C., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Labeling machine. 2,391,694; Dec. 25.

Ex-Cell-O Corporation: *See*—
Snader, Ira J., assignor.

Factory Mutual Research Corporation: *See*—
Causer, Herbert W., assignor.

Faulkner, June E., Chicago, Ill. Beverage. 2,391,559; Dec. 25.

Fawcett, Eric W. M., and E. S. Narracott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Processing of hydrocarbons. 2,391,775; Dec. 25.

Fetterly, Lloyd C.: *See*—
Magin, C. T., and Fetterly.

Fettig, Arthur J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 2,391,825; Dec. 25.

Fischer, Friedrich E., Zurich-Erlenbach, Switzerland. Method and apparatus for reproducing television pictures. 2,391,450; Dec. 25.

Fischer, Friedrich E., Zurich, Switzerland. Process and appliance for projecting television pictures. 2,391,451; Dec. 25.

Fiscus, Charles J., Arnold, assignor to Aluminum Company of America, Pittsburgh, Pa. Method of rolling. 2,391,401; Dec. 25.

Fisher, Irving: *See*—
Mendelsohn, Bernard E.

Fisk, Edwin M., Mission San Jose, Calif. Two-stroke cycle internal-combustion engine. 2,391,402; Dec. 25.

Flegel, Benjamin F., Racine, Wis. Dry shaver clipper attachment. 2,391,695; Dec. 25.

Flurscheim, Cedric H., Bowdon, England, assignor to Metropolitan-Vickers Electrical Company, Limited, London W. C. 2, England. Fluid blast circuit breaker. 2,391,826; Dec. 25.

Foote Bros. Gear and Machine Corporation: *See*—
Mackmann, A., and Ardussi, assignors.

Ford Motor Company: *See*—
Galamb, J., and Hibbard, assignors.
Kramer, C. F., and Nelson, assignors.
Newkirk, D. L., and Ensign, assignors.
Page, Ernest, assignor.
Ploch, W. F., and Mistele, assignors.
Ploch, W. F., and Scarlett, assignors.
Richards, A. B., and Atherton, assignors.
Richards, A. B., and O'Reilly, assignors.
Sorensen, Charles E., assignor.
Sorensen, C. E., and Sheldrick, assignors.
Toelle, A., and Salet, assignors.

Foster, Adeline P.: *See*—
Foster, Edson P., assignor.

Foster, Edson P., Manitowoc, Wis., assignor to A. P. Foster, Torrington, Conn. Felting needle and making the same. 2,391,560; Dec. 25.

Foster, Warren D.: *See*—
Wilson, O. W., and Foster.

Foster Wheeler Corporation: *See*—
Larsen, James M., assignor.

Fredendall, Gordon L., Feasterville, Pa., assignor to Radio Corporation of America. Intelligence transmission system. 2,391,776; Dec. 25.

Friderici, Wayne J., Port Clinton, Ohio, assignor to The Standard Products Company, Detroit, Mich. Shell grommet. 2,391,403; Dec. 25.

Friedheim, Ernest A. H., New York, N. Y. 1,3,5-triazinylphenyl-sulphides carrying a metallic radical. 2,391,452; Dec. 25.





Friedman, Bernard S., and R. F. Stedman, assignors to Universal Oil Products Company, Chicago, Ill. Separation of an unsaturated hydrocarbon from a hydrocarbon mixture. 2,391,404; Dec. 25.

Fry, Charles A.: *See*—
Keplinger, R. B., and Fry.

Fuglie, Elmer A., assignor to Winona Tool Mfg. Company, Winona, Minn. Removing broken studs. 2,391,405; Dec. 25.

Fuglie, Elmer A., and H. J. Anderson, assignors to Winona Tool Mfg. Company, Winona, Minn. Automatic crankshaft grinding and polishing machine. 2,391,406; Dec. 25.

Funk, Rudolph, Hagerstown, Md. Detachable port cover. 2,391,407; Dec. 25.

Galamb, Joseph, Detroit, and T. L. Hibbard, Birmingham, assignors to Ford Motor Company, Dearborn, Mich. Vehicle heater. 2,391,408; Dec. 25.

Gastro-Photor Laboratories Corp.: *See*—
Back, Franz G., assignor.

Geist, Alex M., and R. R. Winders, Lincoln, Nebr. Electrical wiring device. 2,391,409; Dec. 25.

Geldhof, Peter E., and L. Ringer, assignors to Nineteen Hundred Corporation, St. Joseph, Mich. Drain mechanism. 2,391,561; Dec. 25.

General Electric Company: *See*—
Austin, Kirby B., assignor.
Boehne, E. W., and Peterson, assignors.
Cook, Leonard W., assignor.
Craig, Charles R., assignor.
D'Alelio, G. F., and Underwood, assignors.
Estes, Philip H., assignor.
Lindemann, Charles A., assignor.
Roberts, Alvin V., assignor.
Schuck, Carl L., assignor.
Smith, Chester W., assignor.
Wade, E. J., and Horvath, assignors.
Wilcox, Thomas W., assignor.

General Luminescent Corporation: *See*—
Isenberg, Sampson, assignor.

General Mills, Inc.: *See*—
Huber, Louis J., assignor.

General Motors Corporation: *See*—
Baker, Albert D., assignor.
Burge, James S., assignor.
Daily, Robert A., assignor.
Haines, J. F., and Martin.
Hartzell, Herman L., assignor.
Hill, Robert H., assignor.
Mann, Cecil A., assignor.
Wirt, John R., assignor.

Gerfen, Raymond F., Belleville, Ill. Semiautomatic rifle. 2,391,562; Dec. 25.

Gerson, Gerhard, Keego Harbor, Mich., assignor to Phillips Petroleum Company. Charge forming device. 2,391,410; Dec. 25.

Goble, Ralph W., and O. V. Phillips, Long Beach, and D. K. Lippincott, San Francisco, assignors to Leo M. Harvey, La Canada, Calif. Terrain-level altimeter. 2,391,411; Dec. 25.

Goddard, Asa C., Mentor, assignor to Jack & Heintz, Inc., Bedford, Ohio. Wire twisting device. 2,391,696; Dec. 25.

Goldberg, Simon, New York, N. Y., assignor to Super Electric Products Corp., Jersey City, N. J. High frequency coil. 2,391,563; Dec. 25.

Goldbert, Max L., New York, N. Y. Display container. 2,391,453; Dec. 25.

Gollwitzer, Walter T., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Embossing machine. 2,391,777; Dec. 25.

Goodell, Edward G., Stevens Point, Wis. Method and apparatus for recovering inorganic by-products from waste pulp liquor. 2,391,566; Dec. 25.

Gorton, Edward S., Waterville, Maine. Separator. 2,391,412; Dec. 25.

Gray Manufacturing Company, The: *See*—
Johnston, William E., assignor.

Green, Walter H., Batavia, assignor to Infilco Incorporated, Chicago, Ill. Liquid treating apparatus and process. 2,391,697; Dec. 25.

Gregg, James F., Laramie, Wyo. Hydraulic coupling. 2,391,413; Dec. 25.

Gregg, Jon, New Hope, Pa. Shoe and outsole therefor and making the same. 2,391,564; Dec. 25.

Gregor, Michael, New York, N. Y. Variable pitch propeller. 2,391,778; Dec. 25.

Griffith, Alan A., Derby, England. Turbocompressor. 2,391,779; Dec. 25.

Grimes, Harlan E., Mount Orab, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Selector switch circuit for automatic telephone systems. 2,391,414; Dec. 25.

Grindrod, Thomas H., and A. E. Church, Portland, Oreg. Welder's mask. 2,391,565; Dec. 25.

Grinnell Corporation: *See*—
Loepsinger, Albert J., assignor.

Grohsgal, Alexis C., New York, assignor to Marks Products Co., Inc., Brooklyn, N. Y. Musical signal device. 2,391,698; Dec. 25.

Grosse, Aristid V., Haverford, Pa., and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,391,415; Dec. 25.

Guardite Corporation, The: *See*—
Baer, John M., assignor.

Haagen-Smit, Arie J.: *See*—
English, J., Jr., Bonner, and Haagen-Smit.

Hager, Hilmer B., Chicago, Ill. Oil burner. 2,391,567; Dec. 25.

Haines, John F., and T. B. Martin, Dayton, Ohio, assignors to General Motors Corporation. Propeller control mechanism. 2,391,699; Dec. 25.

Hall, Charles T., and R. W. Harris, London, S. E. 8, England. Machine for inserting cartridges into cartridge belts for automatic guns. 2,391,568; Dec. 25.

Hamilton Watch Company: *See*—
Bennett, William O., Jr., assignor.

Haney, Clifford I., and M. E. Martin, Cumberland, Md., assignors to Celanese Corporation of America. Treating cellulosic materials. 2,391,569; Dec. 25.

Hapman, Henry W., Detroit, Mich. Resilient flight conveyer. 2,391,700; Dec. 25.

Hardesty, John O.: *See*—
Ross, W. H., Shipley, Mullins, and Hardesty.

Harris, Richard W.: *See*—
Hall, C. T., and Harris.

Harris-Seybold-Potter Company: *See*—
Spiller, W. R., and Niederhauser, assignors.

Hart, Clinton S., Northfield, Minn., and R. E. Spokes, Ann Arbor, Mich., assignors to American Brake Shoe Company, Wilmington, Del. Friction element. 2,391,416; Dec. 25.

Hartley, Emmett C.: *See*—
Parker, A. L., and Hartley.

Hartzell, Herman L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Grounding mechanism for magnetos. 2,391,854; Dec. 25.

Harvey, Leo M.: *See*—
Goble, R. W., Phillips, and Lippincott, assignors.

Haviland, Earl H., Baltimore, Md. Machinist's calculator. 2,391,570; Dec. 25.

Heany Industrial Ceramic Corporation: *See*—
Heany, John A., assignor.

Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Making aluminous products. 2,391,454; Dec. 25.

Hearne, George W., Berkeley, and M. L. Adams, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif. Production of chloroprene by pyrolysis. 2,391,827; Dec. 25.

Helbush, Herman H.: *See*—
Wallace, Frank C., assignor.

Heller, David, Brooklyn, N. Y. Razor blade sharpener. 2,391,701; Dec. 25.

Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Barbecuing attachment for domestic cooking ranges. 2,391,571; Dec. 25.

Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark plug and electrode therefor. 2,391,455; Dec. 25.

Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark plug electrode. 2,391,456; Dec. 25.

Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark gap electrode. 2,391,458; Dec. 25.

Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Spark plug and electrode therefor. 2,391,459; Dec. 25.

Heppner, Fritz A. M., Leamington Spa, England, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Bladed rotor. 2,391,623; Dec. 25.

Herzog, Carl, Belleville, N. J. Producing electronic devices. 2,391,572; Dec. 25.

Herzog, Carl, Belleville, N. J. Method of and apparatus for making cold cathode fluorescent lamps or the like. 2,391,573; Dec. 25.

Hess, Joseph W.: *See*—
Korn, A., Hess, and Ruskin.

Heuer, Ernest, Vallejo, Calif. Stud bolt retractor and drive. 2,391,624; Dec. 25.

Hibbard, Thomas L.: *See*—
Galamb, J., and Hibbard.

Hill, Iver F., Stratford, Conn. Brassière. 2,391,417; Dec. 25.

Hill, Robert H., assignor to General Motors Corporation, Detroit, Mich. Servo motor. 2,391,702; Dec. 25.

Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,391,780; Dec. 25.

Hillyer, John C.: *See*—
Schulze, W. A., Hillyer, and Drennan.

Hodgson, Howard E., and C. W. Kuhn, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Drive for valves and the like. 2,391,418; Dec. 25.

Holmes, Henry H.: *See*—
Wildt, E., Holmes, and Widdowson.

Holmes, Henry H., Leicester, England., assignor to Wildt and Company Limited. Circular knitting machine. 2,391,625; Dec. 25.

Holtz, Raymand F., Canonsburg, assignor to Edward W. Voss, Dormont, Pa. Roller leveler. 2,391,419; Dec. 25.

Homeyer, August H.: *See*—
Wallingford, V. H., and Homeyer.

Honorary Advisory Council for Scientific and Industrial Research, The: *See*—
Reid, Wilfred T., assignor.

Hood, Andrew, Llanwrda, Wales. Pile casing. 2,391,828; Dec. 25.

Horvath, Joseph, Jr.: *See*—
Wade, E. J., and Horvath.

House, Harrison D., assignor to American Viscose Corporation, Wilmington, Del. Spinning bucket assembly. 2,391,781; Dec. 25.

Housinger, Glenn E., Harlingen, Tex. Device for locking hunting knives in their scabbards. 2,391,574; Dec. 25.

Howard, Burton W., deceased, late of Aguanga, Calif., by Ruby L. Howard, administratrix, Aguanga, Calif. Tire tool. 2,391,626; Dec. 25.

Howard, Ruby L., administratrix: *See*—
Howard, Burton W.

Howard, Styles T., Jeffersonville, Ind. Portable range. 2,391,460; Dec. 25.

Howell, Arthur S., assignor to Stromberg-Carlson Company, Rochester, N. Y. Transducer. 2,391,627; Dec. 25.

Huber, Charlotte, New York, N. Y. Ornamental container. 2,391,420; Dec. 25.

Huber, Louis J., Minneapolis, Minn., assignor to General Mills, Inc. Dehydrated soup. 2,391,829; Dec. 25.

Huber, Matthew W., Chicago, Ill., assignor, by mesne assignments, to The New York Air Brake Company. Reversible engine. 2,391,575; Dec. 25.

Hughes, Walter J., assignor to Infilco Incorporated, Chicago, Ill. Proportioning pump. 2,391,703; Dec. 25.

Hughes, Walter J., assignor to Infilco Incorporated, Chicago, Ill. Sewage comminuting apparatus. 2,391,704; Dec. 25.

Hutchison, Robert L., Roma, Tex. Police weapon. 2,391,782; Dec. 25.

Imperial Knife Company, Inc.: *See*—
Mirando, Michael A., assignor.

Ineson, Clifton H., Oakville, Conn., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Self-locking nut. 2,391,421; Dec. 25.

Infilco Incorporated: *See*—
Green, Walter H., assignor.
Hughes, Walter J., assignor.
Koupal, Robert J., assignor.
Prager, Frank D., assignor.

International Business Machines Corporation: *See*—
Doty, Charles R., assignor.

Ipatieff, Vladimir N.: *See*—
Pines, H., and Ipatieff.

Irwin Foundry & Mine Car Company: *See*—
Attimus, Miles, assignor.

Isenberg, Sampson, assignor to General Luminescent Corporation, Chicago, Ill. Printing method and product. 2,391,705; Dec. 25.

Ivie, James O.: *See*—
Thomas, M. D., and Ivie.

Jack & Heintz, Inc.: *See*—
Goddard, Asa C., assignor.

Jackson, Henry S., Springfield, La. Fuel atomizer. 2,391,422; Dec. 25.

Jackson, Lloyd R., and W. F. Stewart, assignors to Battelle Memorial Institute, Columbus, Ohio. Forming blocking layers on selenium coated plates. 2,391,706; Dec. 25.

Jacobi, Louis, West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Transmission. 2,391,783; Dec. 25.

Jarrell, Sanford J., Norfolk, Va. Boot and shoe. 2,391,707; Dec. 25.

Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Reaction products of hydroxylated polyamines, higher molecular weight carboxylic acids and organic sulphonic acids. 2,391,830; Dec. 25.

Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Cationic active compounds. 2,391,831; Dec. 25.

Jenkinson, Robert L., Teaneck, N. J., assignor to The Marlin Firearms Company, New Haven, Conn. Unloading magazines of firearms. 2,391,423; Dec. 25.

Jensen, Arthur: *See*—
Verrick, W. D., and Jensen.

Jerguson Gage & Valve Company: *See*—
Winton, Lewis B., assignor.

Johns-Manville Corporation: *See*—
Miles, W. S., and Voigt, assignors.
Smolak, George, assignor.

Johnson, Thad C., Clinton, S. C. Steam generator. 2,391,628; Dec. 25.

Johnson, Warren C., Cedar Rapids, Iowa, and D. Kirk, Chicago, Ill., assignors by mesne assignments, to Quaker Oats Company. Carton closing device. 2,391,708; Dec. 25.

Johnston, William E., Weatogue, assignor to The Gray Manufacturing Company, Hartford, Conn. Sound recording and reproducing machine. 2,391,784; Dec. 25.

Johnstone, Theodore H., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Removable core cylinder. 2,391,832; Dec. 25.

Johnstone, Theodore H., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Removable core cylinder. 2,391,833; Dec. 25.

Johnstone, Theodore H., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 2,391,834; Dec. 25.

Jordan, Thomas, Salt Lake City, Utah. Reciprocatory motion apparatus. 2,391,785; Dec. 25.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,391,461; Dec. 25.

Julian, Percy L., Maywood, and E. W. Meyer, Evanston, Ill., assignors, by mesne assignments, to American Lecithin Company, Cleveland, Ohio. Preparation of a phosphatide composition. 2,391,462; Dec. 25.

Kasan, Louis, New York, N. Y. Venetian blind. 2,391,709; Dec. 25.

Katz, Donald L., Ann Arbor, Mich., and T. H. Whaley, Jr., Bartlesville, Okla., assignors to Phillips Petroleum Company. High pressure separation. 2,391,576; Dec. 25.

Kauffmann, Hans O., Eggertsville, and P. H. Margulies, Kenmore, assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Bleaching. 2,391,710; Dec. 25.

Kavanagh, Robert G., assignor to La France Industries, Frankford, Philadelphia, Pa. Producing double faced pile fabrics and loom used in the production thereof. 2,391,835; Dec. 25.

Kazanjian, Souren R., New York, N. Y. Lamp shade retainer. 2,391,711; Dec. 25.

Keller, Curt, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Variable-pitch propeller. 2,391,629; Dec. 25.

Kellogg, M. W., Company, The, et al.: *See*—
Reinhardt, Robert F., assignor.

Kenney, Clarence E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine nozzle structure. 2,391,786; Dec. 25.

Keplinger, Robert B., Canton, and C. A. Fry, Minerva, Ohio. Machine for molding tuyères. 2,391,424; Dec. 25.

Kibler, Louis E., assignor to A. K. Robins & Company, Inc., Baltimore, Md. Lye peeler. 2,391,630; Dec. 25.

Kienle, Roy H., and C. A. Amick, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Color compositions containing salts of monoquinonylacid-amides. 2,391,836; Dec. 25.

King, Ronald D., and N. F. Wood, Portsmouth, England. Making self-locking nuts. 2,391,712; Dec. 25.

King, Victor L., Bound Brook, and H. P. Orem, North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Nitroso beta naphthol composition. 2,391,837; Dec. 25.

Kingerley, Richard W., Jr., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compositions and processes. 2,391,631; Dec. 25.

Kingsbury, Edward J., assignor to Kingsbury Machine Tool Corporation, Keene, N. H. Chip breaking structure. 2,391,463; Dec. 25.

Kingsbury Machine Tool Corporation: *See*—
Kingsbury, Edward J., assignor.

Kirby, Walter G., and L. E. Steinle, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Reclaiming waste polychloroprenes. 2,391,714; Dec. 25.

Kirk, Douglas: *See*—
Johnson, W. C., and Kirk.

Kirk, Roy C.: *See*—
McConica, Thos. H., III, MacPhail, and Kirk.

Kirk, Roy C., C. E. Nelson, and T. H. McConica, III, assignors to The Dow Chemical Company, Midland, Mich. Recovery of magnesium from vapor mixtures. 2,391,713; Dec. 25.

Kleinhans, Earl S., Santa Monica, and W. W. Reaser, Pacific Palisades, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Air conditioning system. 2,391,838; Dec. 25.

Kloss, Elmer C., Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Core box. 2,391,715; Dec. 25.

Knight, Frank H., Cranston, R. I., and R. T. Watts, New York, N. Y., said Watts assignor to said Knight. Union. 2,391,632; Dec. 25.

Koppers Company, Inc.: *See*—
Seymour, William, assignor.
Totzek, Friedrich, assignor.

Korn, Arthur, Hoboken, N. J., J. W. Hoss, and S. L. Ruskin, New York, N. Y. Automatically operated object-locating system. 2,391,633; Dec. 25.

Korn, Harry, Los Angeles, Calif. Self-wiping electric plug connector. 2,391,425; Dec. 25.

Koupal, Robert J., assignor to Infilco Incorporated, Chicago, Ill. Filter. 2,391,716; Dec. 25.

Kramer, Clarence F., Birmingham, and W. G. Nelson, Iron Mountain, assignors to Ford Motor Company, Dearborn, Mich. Gluing fixture. 2,391,426; Dec. 25.

Kresky Manufacturing Company: *See*—
Miller, Clarence A., assignor.

Krysa, Frydryak: *See*—
Walker, G. D., Oulaman, and Krysa.

Kucera, Joseph B., Traer, Iowa. Machine for turning windrowed hemp and the like. 2,391,427; Dec. 25.





Kuhn, Clarence W.: *See*—
Hodgson, H. E., and Kuhn.

La France Industries: *See*—
Kavanagh, Robert G., assignor.

Larsen, James M., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor and liquid contact device. 2,391,464; Dec. 25.

Larson, Swan E., assignor to Geo. D. Roper Corporation, Rockford, Ill. Rotary pump shaft seal. 2,391,577; Dec. 25.

Lawrence, Harold J., Milwaukee, Wis., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Crutch. 2,391,717; Dec. 25.

Lawrence, Howard F., assignor, by mesne assignments, to American Engineering Company, Philadelphia, Pa. Position control mechanism. 2,391,578; Dec. 25.

Lazier, Wilbur A., Wilmington, and G. M. Whitman, Claymont, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of vinyl chloride. 2,391,465; Dec. 25.

Levin, Irvin, Asbury Park, N. J. Adjustable triangle. 2,391,466; Dec. 25.

Levy, Barney B., Middleboro, Mass. Tire. 2,391,579; Dec. 25.

Lewis, Arthur J., Stratford, and L. W. Barnes, Long Hill, assignors to The Baird Machine Company, Stratford, Conn. Washing barrel. 2,391,634; Dec. 25.

Liebel-Flarsheim Company, The: *See*—
Lawrence, Harold J., assignor.

Lindemann, Charles A., Bridgeport, Conn., assignor to General Electric Company. Washing machine. 2,391,718; Dec. 25.

Line Material Company: *See*—
Link, Edwin A., assignor.

Link, Edwin A., South Milwaukee, assignor to Line Material Company, Milwaukee, Wis. Conductor tap-off clamp. 2,391,428; Dec. 25.

Linn, Carl B.: *See*—
Grosse, A. V., and Linn.

Linn, James G., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric current converting system. 2,391,787; Dec. 25.

Lipari, Evelyn Z., New York, N. Y. Device for interchanging bows or ornaments on shoes. 2,391,429; Dec. 29.

Lippincott, Donald K.: *See*—
Goble, R. W., Phillips, and Lippincott.

Lipton, Sarah, New York, N. Y., deceased, Jane L. Orban, administratrix. Anchoring means for flexible members. 2,391,788; Dec. 25.

Llewellyn, Walter E., Nutley, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for cutting filaments. 2,391,719; Dec. 25.

Loepsinger, Albert J., assignor to Grinnell Corporation, Providence, R. I. Supporting means. 2,391,467; Dec. 25.

Long, Robert, assignor to American Porcelain Enamel Company, Muskegon, Mich. Making manifolds. 2,391,468; Dec. 25.

Ludwig, Samuel, Toronto, Ontario, Canada. Footwear. 2,391,720; Dec. 25.

Lumbard, Henry G., Auburn, Maine. Shoemaking. 2,391,789; Dec. 25.

Lundeen, Carl V., Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulation slitting tool. 2,391,721; Dec. 25.

Lundeen, Carl V., Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Portable insulation slitting tool. 2,391,722; Dec. 25.

Macek, Joseph J., Montclair, N. J. Camera and projector. 2,391,430; Dec. 25.

Machol, Morris R.: *See*—
Bay, T. J., and Machol.

Macklanburg, Louis A., Oklahoma City, Okla. Friction device for vertically sliding window sashes. 2,391,431; Dec. 25.

Mackmann, Arthur, and W. F. Ardussi, assignors to Foote Bros. Gear and Machine Corporation, Chicago, Ill. Load handling apparatus. 2,391,580; Dec. 25.

MacPhail, Arthur A.: *See*—
McConica, T. H., III, MacPhail, and Kirk.

Magin, Clifford T., Los Angeles, and L. C. Fetterly, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Treatment of alkyl phenols. 2,391,839; Dec. 25.

Maguire Industries, Incorporated: *See*—
Chodorow, Marvin, assignor.

Mallinckrodt Chemical Works: *See*—
Wallingford, V. H., and Homeyer, assignors.

Mallory, P. R., & Co., Inc.: *See*—
Carlson, Chester F., assignor.
Hensel, Franz R., assignor.

Mann, Cecil A., Dayton, Ohio., assignor to General Motors Corporation, Detroit, Mich. Making iron oxide. 2,391,723; Dec. 25.

Margulies, Paul H.: *See*—
Kauffmann, H. O., and Margulies.

Mark, Louis C., Cranston, R. I. Earring. 2,391,635; Dec. 25.

Marks, Barnard M.: *See*—
Coffman, R. T., and Marks.

Marks Products Co. Inc.: *See*—
Grohsgal, Alexis C., assignor.

Markuson, Arthur C., San Francisco, Calif. Corner construction and finishing bead for walls. 2,391,581; Dec. 25.

Marlin Firearms Company, The: *See*—
Jenkinson, Robert L., assignor.

Marquet, Georges, Lyon, France; vested in the Alien Property Custodian. Dead-centerless crank gear. 2,391,725; Dec. 25.

Marschner, Charles F., Normandy, Mo., and E. W. Bryan, Arcadia, Calif., assignors to McDonnell Aircraft Corporation, St. Louis, Mo. Manufacturing molded plastic die members with electric heating elements embodied therein. 2,391,432; Dec. 25.

Marshall, Joseph C., Baldwin, and H. F. May, Valley Stream, assignors to The Teleregister Corporation, New York, N. Y. Communication and posting system. 2,391,469; Dec. 25.

Martin, Earnest E., Redondo, assignor to Ralph Walsh, Los Angeles, Calif. Spray control valve. 2,391,582; Dec. 25.

Martin, Earnest E., Redondo, assignor to Ralph Walsh, Los Angeles, Calif. Valve device. 2,391,583; Dec. 25.

Martin, Mervin E.: *See*—
Haney, C. L., and Martin.

Martin, Roy A., Hornchurch, and A. W. Say, Upminster, assignors to The Plessey Company Limited, Ilford, Essex, England. Locking device. 2,391,724; Dec. 25.

Martin, Thomas B.: *See*—
Haines, J. F., and Martin.

Martin, Victor S., Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for making retractile cords. 2,391,433; Dec. 25.

Martinsson, Gunnar R. C., assignor to Tuthill Pump Company, Chicago, Ill. Fluid pressure control valve. 2,391,790; Dec. 25.

Maurer, Albert, Ashton, R. I., assignor to Draper Corporation, Hopedale, Mass. Dagger stop. 2,391,726; Dec. 25.

May, Harold F.: *See*—
Marshall, J. C., and May.

May, Richard W., Cedar Rapids, Iowa, assignor to Collins Radio Company. Automatic tuning apparatus. 2,391,470; Dec. 25.

McAfee, Jerry, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Carrying out catalyst reactions. 2,391,434; Dec. 25.

McArthur, Graham S., Portland, Oreg. Gun. 2,391,636; Dec. 25.

McCarthy, Timothy F., Indiana, Pa. Draft operated scraper. 2,391,584; Dec. 25.

McConica, Thomas H., III: *See*—
Kirk, R. C., Nelson, and McConica.

McConica, Thomas H., III, assignor to The Dow Chemical Company, Midland, Mich. Producing magnesium. 2,391,727; Dec. 25.

McConica, Thomas H., III, A. A. MacPhail, and R. C. Kirk, assignors to The Dow Chemical Company, Midland, Mich. Production of alkali metals. 2,391,728; Dec. 25.

McCorquodale, Wilmer E., Jr., Ardentown, Del., assignor to Sun Oil Company, Philadelphia, Pa. Purification of naphthenic acids. 2,391,729; Dec. 25.

McCullough, Jack A.: *See*—
Eitel, W. W., and McCullough.

McDonnell Aircraft Corporation: *See*—
Marschner, C. F., and Bryan, assignors.

McEwen, Norman S., Fort Lauderdale, Fla. Rivet cutter. 2,391,637; Dec. 25.

McHenry, Irving, River Forest, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill. Preparing water-resistant containers. 2,391,791; Dec. 25.

McKnight, William H.: *See*—
Powell, G. M., III, and McKnight.

McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical condenser and dielectric element. 2,391,686; Dec. 25.

McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of electric condensers. 2,391,687; Dec. 25.

McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of electrical condensers. 2,391,688; Dec. 25.

Meakin, Edgar T., San Francisco, Calif. Apparatus for making pellets. 2,391,638; Dec. 25.

Meletti, Adolph, Philadelphia, Pa., assignor to Vacuum Cleaner Corp. of America. Spring-wound cord-controlled take-up reel. 2,391,840; Dec. 25.

Meller, Reginald, Oakland, Calif. Container. 2,391,639; Dec. 25.

Melvin, William T., and R. L. Rougemont, assignors to Reed-Prentice Corporation, Worcester, Mass. Lubricating arrangement for power driven saws. 2,391,730; Dec. 25.

Melzer, Frederick A., Gary, Ind. Grip mechanism for testing machines. 2,391,435; Dec. 25.

Mendelsohn, Bernard E., Brookline, assignor of forty-two and one-half per cent to B. H. Benson, Boston, Mass., and fifteen per cent to I. Fisher, New Haven, Conn. Tire construction. 2,391,841; Dec. 25.

Merla Tool Corporation: *See*—
Walton, Robert O., assignor.

Metropolitan-Vickers Electrical Company Limited: *See*—
Flurschelm, Cedric H., assignor.

Meyer, Edwin W.: *See*—
Julian, P. L., and Meyer.

Mid-States Gummed Paper Co.: *See*—
McHenry, Irving, assignor.

Miles, William S., Hastings-on-Hudson, and P. A. Voigt, Bellerose Manor, assignors to Johns-Manville Corporation, New York, N. Y. Wall construction and fastener therefor. 2,391,792; Dec. 25.

Milius, William S.: *See*—
Moskowitz, A., and Milius.

Miller, August F., assignor to Vac-U-Matic Corporation, Chicago, Ill. Automotive vehicle speed control device. 2,391,586; Dec. 25.

Miller, Clarence A., assignor to Kresky Manufacturing Company, Petaluma, Calif. Oil burner. 2,391,585; Dec. 25.

Miller Engineering Corporation: *See*—
Miller, Raymond J., assignor.

Miller, Raymond J., assignor to Miller Engineering Corporation, Detroit, Mich. Making molds having transition cores. 2,391,587; Dec. 25.

Miller, Theodore J., St. Paul, and R. G. Riedesel, North St. Paul, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Spliced abrasive belt, band, and the like. 2,391,731; Dec. 25.

Miller, William C.: *See*—
Richards, D. L., and Miller.

Miner, W. H., Inc: *See*—
Dath, George E., assignor.

Minerals and Metals Corporation: *See*—
Westling, Carl J., assignor.

Minnesota Mining & Manufacturing Company: *See*—
Miller, T. J., and Riedesel, assignors.

Mirando, Michael A., assignor to Imperial Knife Company, Inc., Providence, R. I. Can opener. 2,391,732; Dec. 25.

Mische, Henry J., Belleville, N. J., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Mechanism for treating wire rope. 2,391,793; Dec. 25.

Miskella, William J., Cleveland, Ohio. Oven-wall panel. 2,391,436; Dec. 25.

Mistele, John W.: *See*—
Pioch, W. F., and Mistele.

Monsanto Chemical Company: *See*—
Dvornikoff, Michael N., assignor.
Zienty, Ferdinand B., assignor.

Moore Business Forms, Inc.: *See*—
Willard, Robert P., assignor.

Moreland, Harry, Huntington, W. Va. Grinding or abrading machine. 2,391,733; Dec. 25.

Morgan, John D., South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y. Lubricating greases. 2,391,842; Dec. 25.

Morris, Donald H.: *See*—
Anderson, E. M., and Morris.

Morris, Ramiel, St. Louis, Mo. Towel cabinet timer. 2,391,471; Dec. 25.

Morton, Robert E., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,391,472; Dec. 25.

Moskowitz, Abram, and W. S. Milius, St. Louis, Mo. Shoe. 2,391,437; Dec. 25.

Mosshart, Donald J.: *See*—
Schultz, A. F., and Mosshart.

Muir, William, Munhall, Pa. Tool driver. 2,391,438; Dec. 25.

Mullen, Charles F., Long Branch, assignor to Central Aircraft Corporation, Keyport, N. J. Automatic control for firearms. 2,391,473; Dec. 25.

Mullins, Joseph F.: *See*—
Ross, W. H., Shipley, Mullins, and Hardesty.

Musher Foundation Incorporated: *See*—
Musher, Sidney, assignor.

Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Food composition. 2,391,474; Dec. 25.

Naratil, John S., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Preparing pellets for sintering. 2,391,588; Dec. 25.

Narracott, Eric S.: *See*—
Fawcett, E. W. M., and Narracott.

Nash-Kelvinator Corporation: *See*—
Phillipp, Lawrence A., assignor.

National Malleable and Steel Castings Company: *See*—
Kloss, Elmer C., assignor.

Navy, United States of America, as represented by the Secretary of: *See*—
Bundy, Francis P., assignor.

Nelson, Charles E.: *See*—
Kirk, R. C., Nelson, and McConica.

Nelson, Walter F.: *See*—
Kramer, C. F., and Nelson.

Nemec, Victor L., Lewistown, Mont. Trap. 2,391,640; Dec. 25.

Newhardt, Joseph B., Berwyn, assignor of one-half to C. H. Angell, Danville, Ill. Buoyant article. 2,391,475; Dec. 25.

New Jersey Zinc Company, The: *See*—
Naratil, John S., assignor.

Newkirk, Daniel L., Inkster, and E. E. Ensign, Ypsilanti, assignors to Ford Motor Company, Dearborn, Mich. Retort construction. 2,391,439; Dec. 25.

New York Air Brake Company, The: *See*—
Huber, Matthew W., assignor.

Niederhauser, Robert J.: *See*—
Spiller, W. R., and Niederhauser.

Nineteen Hundred Corporation: *See*—
Geldhof, P. E., and Ringer, assignors.

Nisenson, Jules, assignor to Publix Metal Products Inc., New York, N. Y. Venetian blind tilter. 2,391,500; Dec. 25.

Nittka, Alfred E., Cleveland, Ohio. Pumping system and apparatus. 2,391,734; Dec. 25.

Nussbaum, Leon, assignor of one-half to Hatim Attari, London, England. Abrasive tool. 2,391,589; Dec. 25.

O'Brien, Francis M., Jr., Miami, Fla. Boring bar. 2,391,794; Dec. 25.

O'Brien, Fred J., Mount Vernon, N. Y. Screen plate. 2,391,501; Dec. 25.

O'Brien, George A., Kansas City, Kan. Bubble cap. 2,391,502; Dec. 25.

O'Hern, Mildred A., Chicago, Ill. Pantie. 2,391,641; Dec. 25.

Ohio Foundry & Manufacturing Company, The: *See*—
Sharpe, William L., assignor.

Oliver, George F. N., assignor to Oliver Pell Control Limited, Woolwich, London, England. Adjustable bracket. 2,391,795; Dec. 25.

Oliver Pell Control Limited: *See*—
Oliver, George F. N., assignor.

Orban, Jane L., administratrix: *See*—
Lipton, Sarah.

O'Reilly, James T.: *See*—
Richards, A. B., and O'Reilly.

Orem, Henry P.: *See*—
King, V. L., and Orem.

Orshansky, Elias, Jr., Cleveland Heights, assignor to The Acrotorque Company, Cleveland, Ohio. Steering control mechanism for vehicles. 2,391,735; Dec. 25.

Ouisnam, Clarence E.: *See*—
Walker, G. D., Ouisnam, and Krysa.

Owens-Illinois Glass Company: *See*—
Belada, John, assignor.
Tracy, Parker C., assignor.

Oxhandler, Samuel, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn. Screen door latch. 2,391,736; Dec. 25.

Pabst, Arthur C., Douglaston, Long Island, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated. Leak sealing compound. 2,391,737; Dec. 25.

Page, Ernest, Upminster, England, assignor to Ford Motor Company, Dearborn, Mich. Apparatus for facilitating the transport of aircraft. 2,391,503; Dec. 25.

Pantages, Steven, New York, N. Y. Thread and stranded wire gauge. 2,391,590; Dec. 25.

Parenti, Joseph S., Buffalo, N. Y. Machine for utilising power. 2,391,476; Dec. 25.

Parker Appliance Company, The: *See*—
Parker, Arthur L., assignor.
Parker, A. L., and Hartley, assignors.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Antiseizing paste for sealing threaded joints and like parts. 2,391,504; Dec. 25.

Parker, Arthur L., and E. C. Hartley, assignors to The Parker Appliance Company, Cleveland, Ohio. Three-way valve. 2,391,505; Dec. 25.

Parker Rust-Proof Company: *See*—
Tanner, Robert R., assignor.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric warp stop motion. 2,391,591; Dec. 25.

Pearson, Gerald L., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistance device. 2,391,506; Dec. 25.

Pennsylvania Railroad Company, The: *See*—
White, Joseph W., assignor.

Peterson, Harold A.: *See*—
Boehne, E. W., and Peterson.

Philco Radio and Television Corporation: *See*—
Bradley, William E., assignor.

Phillipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,391,507; Dec. 25.

Phillips, Ewell C., Dayton, Ohio. Self-sealing fuel tank. 2,391,477; Dec. 25.

Phillips, Oliver V.: *See*—
Goble, R. W., Phillips, and Lippincott.

Phillips Petroleum Company: *See*—
Gerson, Gerhard, assignor.
Katz, D. L., and Whaley, assignors.
Schulze, W. A., Hillyer, and Drennan.
Whaley, Thomas H., assignor.

Pierson, Ralph C., Indianapolis, Ind., assignor to Union Carbide and Carbon Corporation. Flash arrester. 2,391,592; Dec. 25.

Pines, Herman, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of butadiene. 2,391,508; Dec. 25.

Pines, Herman, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of butadiene. 2,391,509; Dec. 25.





Pioch, William F., and G. E. Scarlett, assignors to Ford Motor Company, Dearborn, Mich. Mating fixture. 2,391,510; Dec. 25.

Pioch, William F., and J. W. Mistele, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Machine tool for manufacturing aircraft wings. 2,391,511; Dec. 25.

Plessey Company Limited, The: *See*—
Martin, R. A., and Say, assignor.

Pneumatic Scale Corporation, Limited: *See*—
Everett, Arthur C., assignor.

Ponomareff, Alexander I., Upper Darby, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Blower apparatus. 2,391,512; Dec. 25.

Porter, Joseph J., Fall River, Mass. Safety device. 2,391,593; Dec. 25.

Powell, George M., III, South Charleston, and W. H. McKnight, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Coating paper. 2,391,621; Dec. 25.

Prager, Frank D., Chicago, Ill., assignor to Infilco Incorporated. Liquid treating apparatus. 2,391,738; Dec. 25.

Process Management Company, Inc. et al.: *See*—
Ruthruff, Robert F., assignor.

Provenzano, Gaetano, New York, N. Y. Collapsible enclosed boat. 2,391,594; Dec. 25.

Publix Metal Products Inc.: *See*—
Nisenson, Jules, assignor.

Punte, William F.: *See*—
Coyle, J., and Punte.

Quaker Oats Company: *See*—
Johnson, W. C., and Kirk, assignors.

Quarles, Richard W., Pittsburgh, Pa., and A. K. Doolittle, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Moistureproofing paper. 2,391,620; Dec. 25.

Radio Corporation of America: *See*—
Artzt, Maurice, assignor.
Blain, Albert, assignor.
Fredendall, Gordon L., assignor.
Hillier, James, assignor.
Schade, Otto H., assignor.
Trevor, Bertram, assignor.

Ragupos, Geronimo R., Spokane, Wash. Oyster opening machine. 2,391,739; Dec. 25.

Raley, John H., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Sensitization of hydrogen bromide catalyzed oxidation reactions. 2,391,740; Dec. 25.

Randall, Herman P., Pasadena, Calif. Lock-nut. 2,391,513; Dec. 25.

Range, Bailey E., Armathwaite, Tenn. Pliers. 2,391,796; Dec. 25.

Raspet, August, Locust Valley, N. Y., assignor to Aviation Research and Development Corporation, Fredericksburg, Va. Toy. 2,391,797; Dec. 25.

Rawlings, Franklin N., Westport, Conn., assignor to The Dorr Company, New York, N. Y. Purification of sugar solutions. 2,391,843; Dec. 25.

Read, Roland R., Kirkwood, Mo., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Alkyl phenol compositions. 2,391,798; Dec. 25.

Reaser, Wilbur W.: *See*—
Kleinhans, E. S., and Reaser.

Reece Button Hole Machine Company, The: *See*—
Avis, Samuel W., assignor.

Reed, Jesse C., Dayton, Ohio. Pulley structure for belt-type liquid elevators. 2,391,642; Dec. 25.

Reed-Prentice Corporation: *See*—
Melvin, W. T., and Rougemont, assignors.

Reid, James B., New York, N. Y., assignor to The Dow Chemical Company, Midland, Mich. Protecting magnesium and its alloys from fire. 2,391,844; Dec. 25.

Reid, Wilfred T., Mount Royal, Quebec, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Wing structure for airplanes. 2,391,514; Dec. 25.

Reutter, Frederick R., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Self-locking nut. 2,391,643; Dec. 25.

Rhegas, Peter C., Detroit, Mich. Razor blade holder for sharpening. 2,391,741; Dec. 25.

Richards, Alvin B., Dearborn, and H. S. Atherton, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Insulation. 2,391,515; Dec. 25.

Richards, Alvin B., and J. T. O'Reilly, assignors to Ford Motor Company, Dearborn, Mich. Purification of low melting point alloys. 2,391,516; Dec. 25.

Richards, Dorothy L., Azusa, and W. C. Miller, Alhambra, assignors to Vard Inc., Pasadena, Calif. Nonreflective lens coating. 2,391,595; Dec. 25.

Richardson Company, The: *See*—
Rieser, Oliver O., assignor.

Riedesel, Richard G.: *See*—
Miller, T. J., and Riedesel.

Rieser, Oliver O., Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio. Device for treating storage battery cell covers. 2,391,478; Dec. 25.

Ringer, Luther: *See*—
Geldhof, P. E., and Ringer.

Rivers, Robert, Belmar, N. J. Spring connector for selectors. 2,391,479; Dec. 25.

Roberts, Alvin V., West Haven, Conn., assignor to General Electric Company. Synthetic rubber compositions. 2,391,742; Dec. 25.

Roberts, Robert M.: *See*—
De Simo, M., and Roberts.

Robertshaw Thermostat Company: *See*—
Strobel, Charles K., assignor.

Robertson, H. H. Company: *See*—
Snyder, Purdum M., assignor.

Robins, A. K., & Company, Inc.: *See*—
Kibler, Louis E., assignor.

Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydantoin manufacture. 2,391,799; Dec. 25.

Roper, Geo. D., Corporation: *See*—
Hennessy, John F., assignor.
Larson, Swan E., assignor.

Rosin, Jacob, New York, N. Y. Treatment of sterols. 2,391,743; Dec. 25.

Ross Gear & Tool Company: *See*—
Creson, William K., assignor.

Ross, William H., E. S. Shipley, and J. F. Mullins, Washington, D. C., and J. O. Hardesty, Hyattsville, Md., assignors to the United States of America as represented by the Secretary of Agriculture. Laboratory hammer mill. 2,391,480; Dec. 25.

Rougemont, René L.: *See*—
Melvin, W. T., and Rougemont.

Rowe, Alvin V., Galesburg, Ill., assignor to Rowe Manufacturing Company. Overhead door construction. 2,391,845; Dec. 25.

Rowe Manufacturing Company: *See*—
Rowe, Alvin V., assignor.

Rubel, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Thread take-up for sewing machines. 2,391,517; Dec. 25.

Ruskin, Simon L.: *See*—
Korn, A., Hess, and Ruskin.

Russell, Victor J. S., assignor to S. Smith & Sons (England), Limited, London, England. Electric alarm clock. 2,391,800; Dec. 25.

Rust, Frederick F.: *See*—
Raley, J. H., and Rust.

Ruthruff, Robert F., Chicago, Ill., assignor of one-half to The M. W. Kellogg Company, Jersey City, N. J., and one-half to Process Management Company, Inc., Wilmington, Del. Conversion of hydrocarbons. 2,391,481; Dec. 25.

Ruthruff, Robert F., Chicago, Ill., assignor of one-half to The M. W. Kellogg Company, Jersey City, N. J., and one-half to Process Management Company, Inc., Wilmington, Del. Treatment of hydrocarbons. 2,391,482; Dec. 25.

Salet, Corado R.: *See*—
Toelle, A., and Salet.

Salomon, Allen: *See*—
Wainer, E., and Salomon.

Sargent & Company: *See*—
Oxhandler, Samuel, assignor.

Satchwell, Leonard, Marlow, England. Electric resistance grid. 2,391,744; Dec. 25.

Say, Alan W.: *See*—
Martin, R. A., and Say.

Sayward, John M., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Chlorination of pyrasine. 2,391,745; Dec. 25.

Scarlett, George E.: *See*—
Poich, W. F., and Scarlett.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Electronic tube circuit. 2,391,801; Dec. 25.

Schenker, Abraham W., New York, N. Y. Bed or similar body resting appliance. 2,391,746; Dec. 25.

Schmidt, John E., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Knot tightening device. 2,391,644; Dec. 25.

Schoen, Fred C., Roselle Park, N. J., D. F. Evans, Queens Village, N. Y., and F. C. T. Schoen, Elizabeth, N. J. Marine steering apparatus. 2,391,645; Dec. 25.

Schoen, Fred C. T.: *See*—
Schoen, F. C., Evans, and Schoen.

Schoessow, Earl E., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Penstock and fabricating penstocks. 2,391,747; Dec. 25.

Schuck, Carl L., Philadelphia, Pa., assignor to General Electric Company. Circuit interrupter. 2,391,748; Dec. 25.

Schultz, Arthur F., Springfield, and D. J. Mosshart, Ardmore, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stoker apparatus. 2,391,596; Dec. 25.

Schulze, Walter A., J. C. Hillyer, and H. E. Drennan, Bartlesville, Okla., assignors to Phillips Petroleum Company. Dehydrogenating olefins. 2,391,646; Dec. 25.

Schwarts, Charles, Pittsburgh, Pa. Alkaline detergents. 2,391,647; Dec. 25.

Schwendner, Anthony F., Ridley Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,391,597; Dec. 25.

Scranton, Charles J., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Corn harvester husking roll. 2,391,846; Dec. 25.

Sedgley, Gertrude E.: *See*—
Brown, A. S., and Sedgley.

Selby, Theodore R., Chicago, Ill., assignor to Wilson & Co. Inc. Method of forming continuous strands of animal intestines. 2,391,483; Dec. 25.

Senkus, Murray, Terre Haute, Ind. 5-Nitrohexahydropyrimidines and preparation thereof. 2,391,847; Dec. 25.

Serdich, Theodore, Gary, Ind. Shear. 2,391,598; Dec. 25.

Seybold, Frederick W., Westfield, N. J. Automatic transmission. 2,391,648; Dec. 25.

Seymour, William, Sault Ste. Marie, Ontario, Canada, assignor, by mesne assignments, to Koppers Company, Inc. Apparatus for treating ammonium sulphate crystals. 2,391,484; Dec. 25.

Shafor, Ralph W., New York, N. Y., assignor to The Dorr Company. Sugar refining. 2,391,649; Dec. 25.

Sharp & Dohme, Incorporated: *See*—
Read, Roland R., assignor.
Welch, A. D., and Wright, assignors.

Sharpe, William L., assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio. Fire grate. 2,391,518; Dec. 25.

Shaw, Ernest C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Log barker conveyer. 2,391,802; Dec. 25.

Sheldrick, Laurence S.: *See*—
Sorensen, C. E., and Sheldrick.

Shell Development Company: *See*—
Blackburn, Billee O., assignor.
De Simo, M., and Roberts, assignors.
Hearne, G. W., and Adams, assignors.
Magin, C. T., and Fetterly, assignors.
Raley, J. H., and Rust, assignors.

Shipley, Elias S.: *See*—
Ross, W. H., Shipley, Mullins, and Hardesty.

Silge, Martin, Oakland, Calif. Refractometer. 2,391,599; Dec. 25.

Simmons, John W., Cleveland Heights, Ohio. Resilient fastener. 2,391,650; Dec. 25.

Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter chain. 2,391,485; Dec. 25.

Simon, John, Tramelan, Switzerland. Waterproof push button for timepieces. 2,391,803; Dec. 25.

Slagh, Harold R., Midland, Mich., assignor to The Dow Chemical Company. Ammonolysis of aryl halides. 2,391,848; Dec. 25.

Slagle, Elza A., Cleveland, Ohio. Clock hand remover. 2,391,521; Dec. 25.

Slunder, Charles J., Columbus, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Determining defects in aluminum and aluminum alloy articles. 2,391,522; Dec. 25.

Smith, Chester W., Lynn, Mass., assignor to General Electric Company. Aircraft supercharging arrangement. 2,391,486; Dec. 25.

Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,391,519; Dec. 25.

Smith, Elizabeth E. and W. O., Pittsburgh, Pa. Dental compact. 2,391,651; Dec. 25.

Smith, Nathan D., Aberdeen, Md. Hose clamp. 2,391,804; Dec. 25.

Smith, S., & Sons (England), Limited: *See*—
Russell, Victor J. S., assignor.

Smith, Will O.: *See*—
Smith, E. E. and W. O.

Smith, William L., Lockland, Ohio. Game indicator or score board or the like. 2,391,520; Dec. 25.

Smolak, George, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Making covering elements. 2,391,805; Dec. 25.

Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Machine tool. 2,391,487; Dec. 25.

Snyder, Purdum M., Ben Avon, assignor to H. H. Robertson Company, Pittsburgh, Pa. Bituminous composition and making the same. 2,391,749; Dec. 25.

Snyder, Purdum M., Ben Avon, assignor to H. H. Robertson Company, Pittsburgh, Pa. Bituminous composition. 2,391,750; Dec. 25.

Snyder, Purdum M., Ben Avon, assignor to H. H. Robertson Company, Pittsburgh, Pa. Bituminous composition. 2,391,751; Dec. 25.

Socony-Vacuum Oil Company, Incorporated: *See*—
Pabst, Arthur C., assignor.

Soderquist, Frederick J.: *See*—
Amos, J. L., and Soderquist.

Sorensen, Charles E., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Casting rotors. 2,391,523; Dec. 25.

Sorensen, Charles E., Detroit, and L. S. Sheldrick, assignors to Ford Motor Company, Dearborn, Mich. Vehicle track construction. 2,391,524; Dec. 25.

Speare's, Alden, Sons Co., The: *See*—
Thompson, Willis F., assignor.

Spengler, Walter J., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Coupling means. 2,391,525; Dec. 25.

Sperry Gyroscope Company, Inc.: *See*—
Bench, Lennox F., assignor.

Sperry, Russell L.: *See*—
Thurston, J. T., and Sperry.

Spiller, William R., and R. J. Niederhauser, Dayton, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio. Stitching machine. 2,391,488; Dec. 25.

Spokes, Ray E.: *See*—
Hart, C. S., and Spokes.

Stamm, Alfred J., and H. D. Turner, Madison, Wis., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successor in office. Molding. 2,391,489; Dec. 25.

Standard Products Company, The: *See*—
Friderici, Wayne J., assignor.

Stanolind Oil and Gas Company: *See*—
Dunn, Thomas H., assignor.

Stauffer Chemical Company: *See*—
Belchetz, Arnold, assignor.

Stedman, Russell F.: *See*—
Friedman, B. S., and Stedman.

Steinle, Leo E.: *See*—
Kirby, W. G., and Steinle.

Stern, Max, Kew Gardens, N. Y. Treating aluminum or aluminum alloy scrap. 2,391,752; Dec. 25.

Stevenson, George E., Coquille, Oreg. Tire inflating device. 2,391,652; Dec. 25.

Stewart, Wendell F.: *See*—
Jackson, L. R., and Stewart.

Stone, Earll R., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stoker apparatus. 2,391,600; Dec. 25.

Strobel, Charles K., Pittsburgh, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Safety control and ignition system. 2,391,753; Dec. 25.

Stromberg-Carlson Company: *See*—
Howell, Arthur S., assignor.

Sullivan Machinery Company: *See*—
Simmons, Leon E., assignor.

Sun Oil Company: *See*—
McCorquodale, Wilmer E., Jr., assignor.

Super Electric Products Corp.: *See*—
Goldberg, Simon, assignor.

Swift, Donald D., Hartford, Conn., assignor to M. Swift & Sons, Inc. Goldbeater lubrication material. 2,391,653; Dec. 25.

Swift, Donald D., Hartford, Conn., assignor to M. Swift & Sons, Inc. Goldbeater's lubricant. 2,391,654; Dec. 25.

Swift, M., & Sons, Inc.: *See*—
Swift, Donald D., assignor.

Taborski, Alfred F., Buffalo, N. Y. Necktie. 2,391,655; Dec. 25.

Tanner, Robert R., Bloomfield Village, assignor to Parker Rust-Proof Company, Detroit, Mich. Treated metal sheet and making same. 2,391,656; Dec. 25.

Tavelin, Jacob E., Saratoga Springs, N. Y. Train booster. 2,391,657; Dec. 25.

Taylor, Robert F., Terre Haute, Ind. Reaction products of 1,4-dichloro-2-butene. 2,391,849; Dec. 25.

Teleregister Corporation, The: *See*—
Marshall, J. C., and May, assignors.

Thoma, Meinard F., Fitchburg, Mass. Roll cleaning apparatus for spinning frames and the like. 2,391,754; Dec. 25.

Thomas, Moyer D., and J. O. Ivie, Salt Lake City, Utah, assignors to American Smelting and Refining Company, New York, N. Y. Wind recording apparatus. 2,391,601; Dec. 25.

Thompson, Willis F., Portland, Maine, assignor to The Alden Speare's Sons Co., Cambridge, Mass. Pump. 2,391,806; Dec. 25.

Thornhill, William H., Montreal, Quebec, Canada. Baby carriage. 2,391,658; Dec. 25.

Thurman, Carl C.: *See*—
Eddins, W. N., and Thurman.

Thurston, Jack T., Riverside, and R. L. Sperry, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of refined cyanogen chloride. 2,391,490; Dec. 25.

Titanium Alloy Manufacturing Company, The: *See*—
Walner, E., and Salomon, assignors.

Toelle, August, and C. R. Salet, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Voltage regulator. 2,391,526; Dec. 25.

Totzek, Friedrich, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Inc. Regenerative gas heater. 2,391,491; Dec. 25.

Tracy, Parker C., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Molding machine. 2,391,527; Dec. 25.

Trafford, Charles F., Binghamton, N. Y. Firearm attachment. 2,391,659; Dec. 25.

Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation receiving system. 2,391,807; Dec. 25.

Turchan, Manuel, Dearborn, and C. Walker, Detroit, Mich. Hydraulic duplicating mechanism and exhaust governor. 2,391,492; Dec. 25.

Turner, Harold D.: *See*—
Stamm, A. J., and Turner.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Convertible weft replenishing loom. 2,391,602; Dec. 25.

Tuthill Pump Company: *See*—
Martinsson, Gunnar R.

Twyman, Harold F., Dayton, Ohio, assignor to Chandler-Evans Corporation, South Meriden, Conn. Carburetor. 2,391,755; Dec. 25.

Underwood, James W.: *See*—
D'Alelio, G. F., and Underwood.





Union Carbide and Carbon Corporation: *See*—
Pierson, Ralph C., assignor.

Union Special Machine Company: *See*—
Bagwell, Hardy L., assignor.
Rubel, Charles F., assignor.
Smith, Clarence C., assignor.

United Aircraft Products, Inc.: *See*—
(Cruzan, H., assignor) and Booth.

United Shoe Machinery Corporation: *See*—
Carr, J. W., and Clarke, assignors.
Jorgensen, Bernhardt, assignor.

United States Rubber Company: *See*—
Kirby, W. G., and Steinle, assignors.

Universal Oil Products Company: *See*—
Dryer, Charles G., assignor.
Friedman, B. S., and Stedman, assignors.
Grosse, A. V., and Linn, assignors.
McAfee, Jerry, assignor.
Pines, H., and Ipatieff, assignors.

Universal Winding Company: *See*—
Morton, Robert E., assignor.

Vac-U-Matic Corporation: *See*—
Miller, August F., assignor.

Vacuum Cleaner Corp. of America: *See*—
Meletti, Adolph, assignor.

Vard Inc.: *See*—
Richards, D. L., and Miller, assignors.

Vesely, Josef, Hoddesdon, England. Magazine for firearms. 2,391,756; Dec. 25.

Vesely, Josef, Hoddesdon, England. Firing mechanism for automatic guns. 2,391,757; Dec. 25.

Vincent, Edward T., Ann Arbor, assignor to Continental Motors Corporation, Muskegon, Mich. Fuel atomizer. 2,391,808; Dec. 25.

Volgt, Paul A.: *See*—
Miles, W. S., and Volgt.

Voss, Edward W.: *See*—
Voss, Raymond F., assignor.

Wade, Elmer J., and J. Horvath, Jr., Pittsfield, Mass., assignors to General Electric Company. Protective device. 2,391,758; Dec. 25.

Wagner, Carl J., Detroit, Mich. Surge brake for trailers. 2,391,603; Dec. 25.

Wainer, Eugene, and A. Salomon, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Quick setting cement. 2,391,493; Dec. 25.

Walker, Curtis: *See*—
Turchan, M., and Walker.

Walker, George D., Riveredge, C. E. Oulsnam, and F. Krysa, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Tube holder. 2,391,528; Dec. 25.

Walker, James D., assignor to The American Well Works, Aurora, Ill. Method and apparatus for treating sewage. 2,391,494; Dec. 25.

Walker, Russell T., Bremerton, Wash. Toy. 2,391,529; Dec. 25.

Wallace, Frank C., North Hollywood, assignor to Herman H. Helbush, Los Angeles, Calif. Clamp. 2,391,604; Dec. 25.

Wallingford, Vernon H., Ferguson, and A. H. Homeyer, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Metallation of beta keto esters. 2,391,530; Dec. 25.

Walsh, Ralph: *See*—
Martin, Earnest E., assignor.

Walter, Jules G.: *See*—
Cohn, S., and Walter.

Walton, Robert O., assignor to Merla Tool Corporation, Dallas, Tex. Well flow device. 2,391,605; Dec. 25.

Ward, Ashley F., Cincinnati, Ohio. Baking pan. 2,391,660; Dec. 25.

Warner, Rollin C., New York, N. Y. Safety razor. 2,391,606; Dec. 25.

Warren, Henry E., Ashland, Mass. Balanced valve. 2,391,531; Dec. 25.

Wasem, Jacques, Veyrier, Switzerland. Pedal drive. 2,391,809; Dec. 25.

Waterous Company: *See*—
Wilhelm, Edward A., assignor.

Watkins, Alexander E., and W. H. Easterford, Los Angeles, Calif. Clothes hanger. 2,391,661; Dec. 25.

Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Aircraft structure. 2,391,662; Dec. 25.

Watts, Roy T.: *See*—
Knight, F. H., and Watts.

Webber, Harry R., Norwood, Pa. Pole climbing spur. 2,391,810; Dec. 25.

Weber, Albert J., and E. L. Chrisman, Los Angeles, Calif. Steam spotting unit. 2,391,663; Dec. 25.

Welch, Arnold D., Overbrook Hills, and L. D. Wright, Edgewood Park, Pa., assignors to Sharp & Dohme, Incorporated, Philadelphia, Pa. Nutritional preparations and process. 2,391,850; Dec. 25.

Wemp, Ernest E., Detroit, Mich. Friction member for clutches and brakes. 2,391,495; Dec. 25.

Western Electric Company, Incorporated: *See*—
Landeen, Carl V., assignor.
Martin, Victor S., assignor.

Westinghouse Electric Corporation: *See*—
Ponomareff, Alexander I., assignor.
Schultz, A. F., and Moshart, assignors.
Schwendner, Anthony F., assignor.
Stone, Earll R., assignor.

Westling, Carl J., West Orange, N. J., assignor to Minerals and Metals Corporation, New York, N. Y. Metallurgical apparatus. 2,391,496; Dec. 25.

Whaley, Thomas H., Bartlesville, Okla., assignor to Phillips Petroleum Company. High pressure separation process. 2,391,607; Dec. 25.

Whaley, Thomas H., Jr.: *See*—
Katz, D. L., and Whaley.

White, Joseph W., St. Davids, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Manually-operable auxiliary mechanism for air-brake systems. 2,391,664; Dec. 25.

Whitman, Gerald M.: *See*—
Lazier, W. A., and Whitman.

Widdowson, Albert H.: *See*—
Wildt, E., Holmes, and Widdowson.

Wilcox, Thomas W., Harrow, England, assignor to General Electric Company. Electric circuit interrupter. 2,391,759; Dec. 25.

Wildt and Company: *See*—
Wildt, E., Holmes, and Widdowson, assignors.

Wildt and Company Limited: *See*—
Holmes, Henry H., assignor.

Wildt, Edwin, H. H. Holmes, and A. H. Widdowson, Leicester, England, assignors to Wildt and Company. Knitting machine. 2,391,665; Dec. 25.

Wilhelm, Edward A., assignor to Waterous Company, St. Paul, Minn. Multistage centrifugal pump. 2,391,811; Dec. 25.

Willard, Ellery D., Johnstown, N. Y. Bowling glove. 2,391,851; Dec. 25.

Willard, Robert P., Lewiston, N. Y., assignor to Moore Business Forms, Inc. Record and carbon strip control for writing machines. 2,391,760; Dec. 25.

Wilmotte, Raymond M., Washington, D. C. Direct current amplifier. 2,391,532; Dec. 25.

Wilson & Co. Inc.: *See*—
Selby, Theodore R., assignor.

Wilson, Harland D., Toledo, Ohio. Battery filling and venting means. 2,391,666; Dec. 25.

Wilson, Oliver W., New York, N. Y., and W. D. Foster, Eustis, Fla., said Wilson assignor to said Foster. Film handling apparatus and magazine for use therewith. 2,391,497; Dec. 25.

Winders, Rex R.: *See*—
Geist, A. M., and Winders.

Winn, Willis E., Huntington, Ind. Pipe joint. 2,391,761; Dec. 25.

Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric valve protective system. 2,391,812; Dec. 25.

Winona Tool Mfg. Company: *See*—
Fuglie, Elmer A., assignor.
Fuglie, E. A., and Anderson, assignors.

Winton, Lewis B., Greenwich, Conn., assignor, by mesne assignments, to Jerguson Gage & Valve Company, Somerville, Mass. Liquid level indicator. 2,391,852; Dec. 25.

Wirt, John R., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Workholder for arc-welding apparatus. 2,391,762; Dec. 25.

Wise, Solomon, Shaker Heights, Ohio. Locked filling cap for fuel tanks. 2,391,498; Dec. 25.

Wood, Floyd R., Carter Lake, Iowa. Device for parking airplanes. 2,391,608; Dec. 25.

Wood, Gar, Industries, Inc.: *See*—
Wood, Louis S., assignor.

Wood, Louis S., Grosse Pointe Farms, assignor to Gar Wood Industries, Inc., Detroit, Mich. Power tail gate. 2,391,813; Dec. 25.

Wood, Norman F.: *See*—
King, R. D., and Wood.

Woodall, John H., Woodland, Ga. Machine for making cushions. 2,391,814; Dec. 25.

Woodruff, Albert E., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Substation circuit. 2,391,533; Dec. 25.

Wright, Kenneth A., Los Angeles, Calif. Oil well screen. 2,391,609; Dec. 25.

Wright, Lemuel D.: *See*—
Welch, A. D., and Wright.

Yale & Towne Manufacturing Company, The: *See*—
Johnstone, Theodore H., assignor.

Yerrick, William D., and A. Jensen, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Separator. 2,391,534; Dec. 25.

Yoder, Bertha L., executrix: *See*—
Yoder, Carl M.

Yoder, Carl M., Lakewood, Ohio, deceased, B. L. Yoder, Lakewood, Ohio, executrix. Process of and apparatus for operating on sheet metal. 2,391,499; Dev. 25.

Zelano, Joseph, New York, N. Y. Ventilated clothing. 2,391,535; Dec. 25.

Zienty, Ferdinand B., assignor to Monsanto Chemical Company, St. Louis, Mo. Process for production of sulphanilamide derivatives. 2,391,853; Dec. 25.

Zimmer Manufacturing Company: *See*—
Ettinger, Joe J., assignor.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Azo dyestuffs, Purification of. W. W. Williams. Re. 22,705; Dec. 25.

Flight indicator and control system therefor, Aircraft. F. L. Moseley. Re. 22,704; Dec. 25.

# LIST OF PLANT INVENTIONS

Rose plant. C. G. Duehrsen. Pl. Pt. 664; Dec. 25.

Rose plant. F. H. Howard. Pl. Pt. 665; Dec. 25.

# LIST OF DESIGN INVENTIONS

Airplane and submarine, Combination. H. Harrington. 143,313; Dec. 25.
Airplane or similar article. P. Porcelli. 143,351; Dec. 25.
Atomizer. C. F. Boe. 143,264; Dec. 25.
Atomizer. E. Williams. 143,378; Dec. 25.
Base or similar article, Dresser. W. A. Rundell. 143,354; Dec. 25.
Battery. C. B. Stevens. 143,361–2; Dec. 25.
Bearing and bearing retainer for rotating shaft positioned in a column, Intermediate. L. Aker. 143,258; Dec. 25.
Bib, Child's. M. M. Cameron. 143,268; Dec. 25.
Bottle. F. Frederics. 143,296; Dec. 25.
Box or similar receptacle, Cigarette. E. Burtis. 143,267; Dec. 25.
Bracelet. G. J. Lederer. 143,328; Dec. 25.
Bracelet or similar article. W. W. Hobé. 143,317; Dec. 25.
Bracket, Telephone jack. L. B. Haigh and F. A. Stearn. 143,308–9; Dec. 25.
Brassière. J. J. Lo Cascio. 143,331; Dec. 25.
Bulldozer. H. W. Rockwell. 143,353; Dec. 25.
Cabinet and cigarette container, Combined radio. H. Marienthal. 143,334; Dec. 25.
Cabinet, Combined dispensing and article display. A. E. Aldridge. 143,259; Dec. 25.
Cap for a two-compartment container, Closure. W. D. Elsas, P. Lowengardt, and A. Scheftel. 143,289; Dec. 25.
Car body, Railway. G. A. Jergenson. 143,322–3; Dec. 25.
Car, Railway. G. A. Jergenson. 143,324; Dec. 25.
Carrier, Baby. C. A. De Pirro. 143,281–4; Dec. 25.
Cart, Milk can. O. W. Leonard. 143,329; Dec. 25.
Case, Instrument. R. Holley. 143,319; Dec. 25.
Coaster and ash tray, Combined. G. V. Post. 143,352; Dec. 25.
Compact. P. Harper. 143,311; Dec. 25.
Compact or similar article. Z. Zemby. 143,380; Dec. 25.
Cooker, Pressure. S. W. Farber. 143,291–2; Dec. 25.
Curler or the like, Hair. M. E. Lindsay. 143,330; Dec. 25.
Desk. G. C. Brainard and R. Loewy. 143,265–6; Dec. 25.
Dress. Z. Golden. 143,303–5; Dec. 25.
Earring. F. Morrow. 143,338–9; Dec. 25.
Engine starter. R. M. Heintz. 143,316; Dec. 25.
Escutcheon for sink fittings. H. Dreyfuss. 143,288; Dec. 25.
Fabric. A. Y. Park. 143,343–7; Dec. 25.
Flashlight. E. L. Schofield. 143,357–8; Dec. 25.
Frame, Scaffold. L. C. Oertle, Sr. 143,341; Dec. 25.
Fruit display and container unit, Combined. G. W. Wallace and J. W. Trew. 143,375; Dec. 25.
Game board. A. L. Barrett. 143,261; Dec. 25.
Gas saver. G. F. Goddeau. 143,302; Dec. 25.
Handle or the like, Faucet. H. Dreyfuss. 143,287; Dec. 25.
Handle or the like, Faucet. R. H. Zinkil and H. Dreyfuss. 143,382; Dec. 25.
Handle, Razor. H. H. Kempf. 143,326; Dec. 25.
Head unit for a milking machine. E. B. Thompson and G. A. Estel, Jr. 143,369; Dec. 25.
Heater, Space. D. M. Trilling and G. H. Rich. 143,372; Dec. 25.
Holder, Toothbrush. F. E. Hart. 143,314; Dec. 25.
Horse, Rocking. A. C. De Vorn. 143,285; Dec. 25.
Ironing machine and stand, Combined. A. H. Gerhardt and A. P. Schulz. 143,298; Dec. 25.
Ironing machine, lap board, and stand, Combined. A. H. Gerhardt and A. P. Schulz. 143,299; Dec. 25.
Jacket. Z. Golden. 143,306–7; Dec. 25.
Lamp fixture shield, End section of a fluorescent. B. Schaefer. 143,356; Dec. 25.
Lamp fixture shield, Intermediate section of a fluorescent. B. Schaefer. 143,355. Dec. 25.
Light, Vehicle signal. E. B. Hallman. 143,310; Dec. 25.
Lighter, Cigarette. F. Zigmant. 143,381; Dec. 25.
Lighter, Cigarette and cigar. E. Fisher. 143,295; Dec. 25.
Lighter or similar article. A. Pantzer. 143,342; Dec. 25.
Lighter or similar article, Table. A. S. Weston. 143,377; Dec. 25.
Lighting fixture. J. W. Morrison. 143,336; Dec. 25.
Lighting fixture, Fluorescent. F. Polotaye. 143,350; Dec. 25.
Microphone, Desk. R. L. Stone. 143,363; Dec. 25.
Mixing device. H. Gilbert. 143,301; Dec. 25.
Music box and cigarette container, Combined. H. Marienthal. 143,335; Dec. 25.
Necklace. A. Philippe. 143,349; Dec. 25.
Nozzle attachment for air hose or the like. L. L. Smith. 143,359; Dec. 25.
Opener, Can. M. J. La Forte. 143,327; Dec. 25.
Ornament, Hair. S. Behr. 143,262; Dec. 25.
Padlock. F. Collura. 143,271; Dec. 25.
Pilot turn control unit for aircraft, Automatic. N. B. Murphy. 143,340; Dec. 25.
Pin or similar article, Brooch. W. W. Hobé. 143,318; Dec. 25.
Pin or similar article, Jewelry. F. Morrow. 143,337; Dec. 25.
Pipe, Smoking. H. Abrams. 143,257; Dec. 25.
Pipe, Smoking. G. Trasso. 143,371; Dec. 25.
Plate for a bath supply fitting or the like, Cover. R. H. Zinkil and H. Dreyfuss. 143,383; Dec. 25.
Plate for a beveled panel back lavatory supply and waste fitting or the like, Cover. R. H. Zinkil and H. Dreyfuss. 143,385; Dec. 25.
Plate for a lavatory supply and waste fitting or the like, Cover. R. H. Zinkil and H. Dreyfuss. 143,384; Dec. 25.
Power unit, Dual motor. R. F. Thornton. 143,370; Dec. 25.
Power unit housing, Portable engine. P. Altman. 143,260; Dec. 25.
Power unit housing, Portable engine. W. S. Tandler and F. A. de Weiss. 143,366–8; Dec. 25.
Rack, Necktie. P. Pestyner. 143,348; Dec. 25.
Radio and phonograph table, Combination. H. L. Weisburgh. 143,376; Dec. 25.
Receptacle for infant's food. E. J. Wormley. 143,379; Dec. 25.
Ring, Finger. C. Gantwarg. 143,297; Dec. 25.
Ring, Finger. H. M. Walden. 143,374; Dec. 25.
Sander, Surface. J. L. Feild. 143,293; Dec. 25.
Saucepan. D. T. Bergman. 143,263; Dec. 25.
Spacer, Picture frame. G. W. Vreeland. 143,373; Dec. 25.
Stand, Display. H. C. Macpherson. 143,333; Dec. 25.
Stand or similar article, Display. M. B. Horton. 143,320; Dec. 25.
Stove, Sportsman's. E. H. Stempel and S. Rasmussen. 143,360; Dec. 25.
Submarine and land tank, Combination. R. M. Sutphen. 143,365; Dec. 25.
Switch housing. V. L. Darnell. 143,280; Dec. 25.
Table. D. M. Harriton. 143,312; Dec. 25.
Table, Infant's dressing and rubbing. E. M. Elson. 143,290; Dec. 25.
Teacup. M. L. Hubbard. 143,321; Dec. 25.
Threader and needle card holding device, Combined needle. S. A. De Waltoff. 143,286; Dec. 25.
Toy building block. C. M. Dabrohus. 143,272–9; Dec. 25.
Toy, Figure. A. F. Filer. 143,294; Dec. 25.
Toy figure. E. B. Lumbard. 143,332; Dec. 25.
Toy, Marble runway. G. B. Hatcher. 143,315; Dec. 25.
Tray and cigarette server, or the like, Combined ash. N. E. Kantor. 143,325; Dec. 25.
Tray, Ash. J. B. Canepa. 143,269; Dec. 25.
Tray, Ash. S. L. Gerson. 143,300; Dec. 25.
Tray, Table top. E. A. Storch. 143,364; Dec. 25.
Washing machine. D. Chapman. 143,270; Dec. 25.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1945

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive belt, band, and the like, Spliced. T. J. Miller and R. G. Riedesel. 2,391,731; Dec. 25.
Abrasive tool. L. Nussbaum. 2,391,589; Dec. 25.
Adhesive material. L. Bradshaw and C. L. Stachel. 2,391,387; Dec. 25.
Adjustable bracket. G. F. N. Oliver. 2,391,795; Dec. 25.
Air conditioning system. E. S. Kleinhans and W. W. Reaser. 2,391,838; Dec. 25.
Aircraft structure. M. Watter. 2,391,662; Dec. 25.
Aircraft supercharging arrangement. C. W. Smith. 2,391,486; Dec. 25.
Alarm clock, Electric. V. J. S. Russell. 2,391,800; Dec. 25.
Aldehydes and diazine derivatives, Reaction products of. G. F. D'Alelio and J. W. Underwood. 2,391,683; Dec. 25.
Alkali metals, Production of. T. H. McConica, III, A. A. MacPhail, and R. C. Kirk. 2,391,728; Dec. 25.
Alkyl benzene hydrocarbons, Manufacturing. D. G. Brandt. 2,391,818; Dec. 25.
Alkyl phenol compositions. R. R. Read. 2,391,798; Dec. 25.
Alkyl phenols, Treatment of. C. T. Magin and L. C. Fetterly. 2,391,839; Dec. 25.
Alpha-methylstyrenes, Cracking of. J. K. Dixon. 2,391,821; Dec. 25.
Altimeter, Terrain-level. R. W. Goble, O. V. Phillips, and D. K. Lippincott. 2,391,411; Dec. 25.
Aluminous products, Making. J. A. Heany. 2,391,454; Dec. 25.
Aluminum and aluminum alloy articles, Determining defects in. C. J. Slunder. 2,391,522; Dec. 25.
Aluminum or aluminum alloy scrap, Treating. M. Stern. 2,391,752; Dec. 25.
Ambulatory rotating reduction and fixation splint. R. Anderson. 2,391,537; Dec. 25.
Ammonolysis of aryl halides. H. R. Slagh. 2,391,848; Dec. 25.
Amplifier, Direct current. R. M. Wilmotte. 2,391,532; Dec. 25.
Anchoring means for flexible members. S. Lipton. 2,391,788; Dec. 25.
Animal intestines, Forming continuous strands of. T. R. Selby. 2,391,483; Dec. 25.
Apparatus for cutting filaments. W. E. Llewellyn. 2,391,719; Dec. 25.
Apparatus for facilitating the transport of aircraft. E. Page. 2,391,503; Dec. 25.
Apparatus for making pellets. E. T. Meakin. 2,391,638; Dec. 25.
Apparatus for making retractile cords. V. S. Martin. 2,391,433; Dec. 25.
Apparatus for spinning frames and the like, Roll cleaning. M. F. Thoma. 2,391,754; Dec. 25.
Apparatus for supplying wire from wire supply spools to bending presses. J. S. Barge. 2,391,679; Dec. 25.
Apparatus for treating ammonium sulphate crystals. W. Seymour. 2,391,484; Dec. 25.
Aromatic compounds, Stabilized. D. Curtis. 2,391,552; Dec. 25.
Article, Buoyant. J. B. Newhardt. 2,391,475; Dec. 25.
Atomizer, Fuel. H. S. Jackson. 2,391,422; Dec. 25.
Attachment for domestic cooking ranges, Barbecuing. J. F. Hennessy. 2,391,571; Dec. 25.
Automatic control for firearms. C. F. Mullen. 2,391,473; Dec. 25.
Automatic crank shaft grinding and polishing machine. E. A. Fuglie and H. J. Anderson. 2,391,406; Dec. 25.
Automatic transmission. F. W. Seybold. 2,391,648; Dec. 25.
Automatic tuning apparatus. R. W. May. 2,391,470; Dec. 25.
Auxiliary mechanism for air-brake systems, Manually-operable. J. W. White. 2,391,664; Dec. 25.
Balanced valve. H. E. Warren. 2,391,531; Dec. 25.
Bar: *See*—
Boring bar.
Barrel, Washing. A. J. Lewis and L. W. Barnes. 2,391,634; Dec. 25.
Battery filling and venting means. H. D. Wilson. 2,391,666; Dec. 25.
Battery, Storage. B. A. Daily. 2,391,820; Dec. 25.
Bed or similar body resting appliance. A. W. Schenker. 2,391,746; Dec. 25.
Belts, Making transmission. A. S. Brown and G. E. Sedgley. 2,391,674; Dec. 25.
Berthing place for vessels, Jetty, wharf, and like. A. L. L. Baker. 2,391,612; Dec. 25.
Beverage. J. E. Faulkner. 2,391,559; Dec. 25.
Beverage maker. F. J. Dever. 2,391,397; Dec. 25.
Billiard table. A. F. Debicki. 2,391,395; Dec. 25.
Bituminous composition. P. M. Snyder. 2,391,750–1; Dec. 25.
Bituminous composition and making the same. P. M. Snyder. 2,391,749; Dec. 25.
Bleaching. H. O. Kauffmann and P. H. Margulies. 2,391,710; Dec. 25.
Blind, Venetian. L. Kasan. 2,391,709; Dec. 25.
Blower apparatus. A. I. Ponomareff. 2,391,512; Dec. 25.
Boat, Collapsible enclosed. G. Provenzano. 2,391,594; Dec. 25.
Booster, Thin swath. W. G. Anderson. 2,391,763; Dec. 25.
Boot and shoe. S. J. Jarrell. 2,391,707; Dec. 25.
Boring bar. F. M. O'Brien, Jr. 2,391,794; Dec. 25.
Boring machine, Horizontal. C. B. De Vlieg. 2,391,398; Dec. 25.
Box: *See*—
Core box.
Bracket: *See*—
Adjustable bracket.
Brassière. I. F. Hill. 2,391,417; Dec. 25.
Broken studs, Removing. E. A. Fuglie. 2,391,405; Dec. 25.
Bubble cap. G. A. O'Brien. 2,391,502; Dec. 25.
Bucket assembly, Spinning. H. D. House. 2,391,781; Dec. 25.
Burner: *See*—
Oil burner.
Butadiene, Manufacture of. H. Pines and V. N. Ipatieff. 2,391,508–9; Dec. 25.
Button winding machine. S. W. Avis. 2,391,378; Dec. 25.
By-pass control valve. H. Cruzan and H. T. Booth. 2,391,551; Dec. 25.
Cabinet: *See*—
Collapsible wardrobe cabinet.
Calculating machine. A. J. Fettig. 2,391,825; Dec. 25.
Calculator, Machinist's. E. H. Haviland. 2,391,570; Dec. 25.
Calculator, Time schedule. C. C. Clark. 2,391,771; Dec. 25.
Camera and projector. J. J. Macek. 2,391,430; Dec. 25.
Canine encephalitis, Prevention and treatment of. C. H. Beckman. 2,391,540; Dec. 25.
Cap: *See*—
Bubble cap.
Cap for fuel tanks, Lock filling. S. Wise. 2,391,498; Dec. 25.
Carbon disulphide, Purifying. A. Belchetz. 2,391,541; Dec. 25.
Carburetor. H. F. Twyman. 2,391,755; Dec. 25.
Carriage, Baby. W. H. Thornhill. 2,391,658; Dec. 25.
Carton closing device. W. C. Johnson and D. Kirk. 2,391,708; Dec. 25.
Catalyst reactions, Carrying out. J. McAfee. 2,391,434; Dec. 25.
Cationic active compounds. D. W. Jayne, Jr., and H. M. Day. 2,391,831; Dec. 25.
Cellulosic materials, Treating. C. I. Haney and M. E. Martin. 2,391,569; Dec. 25.
Cement, Quick setting. E. Walner and A. Salomon. 2,391,493; Dec. 25.
Chain: *See*—
Cutter chain.
Charge forming device. G. Gerson. 2,391,410; Dec. 25.
Chip breaking structure. E. J. Kingsbury. 2,391,463; Dec. 25.
Chloride, Production of refined cyanogen. J. T. Thurston and R. L. Sperry. 2,391,490; Dec. 25.
Chlorination of pyraxine. J. M. Sayward. 2,391,745; Dec. 25.
Chloroprene by pyrolysis, Production of. G. W. Hearne and M. L. Adams. 2,391,827; Dec. 25.
Chuck, Collet. W. C. Cope. 2,391,550; Dec. 25.
Circuit: *See*—
Electronic tube circuit. Substation circuit.
Self-pulsing circuit.
Circuit breaker, Fluid blast. C. H. Flurscheim. 2,391,826; Dec. 25.
Circuit interrupter. C. L. Schuck. 2,391,748; Dec. 25.
Clamp: *See*—
Conductor tap-off clamp. Hose clamp.
Clamp. F. C. Wallace. 2,391,604; Dec. 25.
Clipper attachment, Dry shaver. B. F. Flegel. 2,391,695; Dec. 25.
Clock hand remover. E. A. Slagle. 2,391,521; Dec. 25.
Clothes hanger. A. E. Watkins and W. H. Easterford. 2,391,661; Dec. 25.
Clothes post. E. M. Anderson and D. H. Morris. 2,391,536; Dec. 25.
Clothing, Ventilated. J. Zelano. 2,391,535; Dec. 25.

Coil, High frequency. S. Goldberg. 2,391,563; Dec. 25.
Coke ovens, Removal of deposits from the interior surfaces of. A. L. Bruton. 2,391,443; Dec. 25.
Cold cathode fluorescent lamps or the like, Method of and apparatus for making. C. Herzog. 2,391,573; Dec. 25.
Collapsible wardrobe cabinet. I. Blechman. 2,391,614; Dec. 25.
Collar can collar mounting. J. Coyle and W. F. Punte. 2,391,772; Dec. 25.
Collet, Hairspring. W. O. Bennett, Jr. 2,391,816; Dec. 25.
Communication and posting system. J. C. Marshall and H. F. May. 2,391,469; Dec. 25.
Compact, Dental. E. E. and W. O. Smith. 2,391,651; Dec. 25.
Compass, Gyromagnetic. L. F. Beach. 2,391,442; Dec. 25.
Composite material, Forming. A. K. Doolittle. 2,391,619; Dec. 25.
Compositions and processes. R. W. Kingerley, Jr. 2,391,631; Dec. 25.
Conductor tap-off clamp. E. A. Link. 2,391,428; Dec. 25.
Connector: *See*—
Self-wiping electric plug connector.
Connector for selectors, Spring. R. Rivers. 2,391,479; Dec. 25.
Container: *See*—
Ornamental container.
Container. H. A. Eggerss. 2,391,774; Dec. 25.
Container. R. Meller. 2,391,639; Dec. 25.
Containers, Preparing, Water resistant. I. McHenry. 2,391,791; Dec. 25.
Control for percussive tools, Bit. A. G. Decker, Jr. 2,391,553; Dec. 25.
Control for writing machines, Record and carbon strip. R. P. Willard. 2,391,760; Dec. 25.
Control mechanism for vehicles, Steering. E. Orshansky, Jr. 2,391,735; Dec. 25.
Conveyer, Log barker. E. C. Shaw. 2,391,802; Dec. 25.
Copolymers and making, Rubberlike. B. O. Blackburn. 2,391,817; Dec. 25.
Core box. E. C. Kloss. 2,391,715; Dec. 25.
Corn harvester husking roll. C. J. Scranton. 2,391,846; Dec. 25.
Corner construction and finishing bead for walls. A. C. Markuson. 2,391,581; Dec. 25.
Counter portion for shoes. E. A. Cohen. 2,391,445; Dec. 25.
Counter portions, Making. E. A. Cohen. 2,391,446; Dec. 25.
Coupling: *See*—
Hydraulic coupling.
Coupling means. W. J. Spengler. 2,391,525; Dec. 25.
Cover: *See*—
Detachable port cover.
Covering elements, Making. G. Smolak. 2,391,805; Dec. 25.
Crane boom suspension. G. Y. Anderson. 2,391,440; Dec. 25.
Crutch. H. J. Lawrence. 2,391,717; Dec. 25.
Cutter: *See*—
Rivet cutter.
Cutter chain. L. E. Simmons. 2,391,485; Dec. 25.
Cylinder lock. T. H. Johnstone. 2,391,834; Dec. 25.
Cylinder, Removable core. T. H. Johnstone. 2,391,832–3; Dec. 25.
Dagger stop. A. Maurer. 2,391,726; Dec. 25.
Dead centerless crank gear. G. Marquet. 2,391,725; Dec. 25.
Depositor for dough molders, Workpiece. E. O. Engels. 2,391,691; Dec. 25.
Detachable port cover. R. Funk. 2,391,407; Dec. 25.
Detergents, Alkaline. C. Schwartz. 2,391,647; Dec. 25.
Determining the ground speed and/or course of aircraft, Method of and apparatus for. L. de Forest. 2,391,554; Dec. 25.
Device for interchanging bows or ornaments on shoes. E. Z. Lipari. 2,391,429; Dec. 25.
Device for locking hunting knives in their scabbards. G. E. Housinger. 2,391,574; Dec. 25.
Device for parking airplanes. F. R. Wood. 2,391,608; Dec. 25.
Device for treating storage battery cell covers. O. O. Rieser. 2,391,478; Dec. 25.
Device for vertically sliding window sashes, Friction. L. A. Macklanburg. 2,391,431; Dec. 25.
Dienes, Production of. M. De Simo and R. M. Roberts. 2,391,555; Dec. 25.
Dispensing receptacle. E. R. Crebbs. 2,391,617; Dec. 25.
Display container. M. L. Goldbert. 2,391,453; Dec. 25.
Dissipating system for bearings, Heat. T. J. Bay and M. R. Machol. 2,391,670; Dec. 25.
Door switch. D. Conlan. 2,391,549; Dec. 25.
Drain mechanism. P. E. Geldhof and L. Ringer. 2,391,561; Dec. 25.
Drill. J. S. Denison. 2,391,396; Dec. 25.
Drive for valves and the like. H. E. Hodgson and C. W. Kuhn. 2,391,418; Dec. 25.
Drum, Sanding. J. P. Elliott. 2,391,449; Dec. 25.
Drying apparatus. B. R. Andrews. 2,391,764; Dec. 25.
Earring. L. C. Mark. 2,391,635; Dec. 25.
Electric circuit interrupter. T. W. Wilcox. 2,391,759; Dec. 25.
Electric condensers, Stabilization of. D. A. McLean. 2,391,687; Dec. 25.
Electric current converting system. J. G. Linn. 2,391,787; Dec. 25.
Electric resistance grid. L. Satchwell. 2,391,744; Dec. 25.
Electric valve protective system. H. Winograd. 2,391,812; Dec. 25.
Electric warp stop motion. O. V. Payne. 2,391,591; Dec. 25.
Electrical condenser and dielectric element. D. A. McLean. 2,391,686; Dec. 25.
Electrical condensers, Manufacture of. D. A. McLean. 2,391,688; Dec. 25.
Electrical relay. J. F. Ebert. 2,391,400; Dec. 25.
Electrical wiring device. A. M. Geist and R. R. Winders. 2,391,409; Dec. 25.
Electrode construction, Spark plug. C. F. Carlson. 2,391,457; Dec. 25.
Electrode, Spark plug. F. R. Hensel. 2,391,456; Dec. 25.
Electrode, Spark gap. F. R. Hensel. 2,391,458; Dec. 25.
Electromagnetic relay. P. H. Estes. 2,391,692; Dec. 25.
Electron discharge device. J. Hillier. 2,391,780; Dec. 25.
Electron tube. W. W. Eitel and J. A. McCullough. 2,391,690; Dec. 25.
Electronic devices, Producing. C. Herzog. 2,391,572; Dec. 25.
Electronic tube circuit. O. H. Schade. 2,391,801; Dec. 25.
Embossing machine. W. T. Golliwitzer. 2,391,777; Dec. 25.
Engine: *See*—
Reversible engine.
Envelope. A. M. Broudy. 2,391,673; Dec. 25.
Esters, Metallation of beta keto. V. H. Willingford and A. H. Homeyer. 2,391,530; Dec. 25.
Ethers of primary nitro-alkalanes and preparing them. C. T. Bahner. 2,391,815; Dec. 25.
Fabric feeding system. S. Cohn and J. G. Walter. 2,391,547; Dec. 25.
Facsimile apparatus. M. Artzt. 2,391,765; Dec. 25.
Fastener: *See*—
Resilient fastener.
Feed control for lining machines. J. Belada. 2,391,381; Dec. 25.
Film handling apparatus and magazine for use therewith. O. W. Wilson and W. D. Foster. 2,391,497; Dec. 25.
Filter. R. J. Koupal. 2,391,716; Dec. 25.
Firearm attachment. C. F. Trafford. 2,391,659; Dec. 25.
5-Nitronhexahydropyrimidines and preparation thereof. M. Senkus. 2,391,847; Dec. 25.
Fixture, Gluing. C. F. Kramer and W. G. Nelson. 2,391,426; Dec. 25.
Fixture, Mating. W. F. Ploch and G. E. Scarlett. 2,391,510; Dec. 25.
Flash arrester. R. C. Pierson. 2,391,592; Dec. 25.
Flight conveyer, Resilient. H. W. Hapman. 2,391,700; Dec. 25.
Fluid pressure control valve. G. R. C. Martinsson. 2,391,790; Dec. 25.
Fluid pressure pump. W. N. Eddins and C. C. Thurman. 2,391,556; Dec. 25.
Fog producing device. H. W. Causer. 2,391,616; Dec. 25.
Food composition. S. Musher. 2,391,474; Dec. 25.
Footwear. S. Ludwig. 2,391,720; Dec. 25.
Friction element. C. S. Hart and R. E. Spokes. 2,391,416; Dec. 25.
Friction member for clutches and brakes. E. E. Wemp. 2,391,495; Dec. 25.
Fuel atomizer. E. T. Vincent. 2,391,808; Dec. 25.
Game indicator or score board or the like. W. I. Smith. 2,391,520; Dec. 25.
Gas lift pumping apparatus. J. L. Benard. 2,391,542; Dec. 25.
Gate: *See*—
Power tail gate.
Gear: *See*—
Dead centerless crank gear. Power steering gear.
Gear for trailers, Landing. C. Bohlen, Jr. 2,391,384; Dec. 25.
Generator: *See*—
Harmonic generator. Steam generator.
Gluing, Bowling. E. D. Willard. 2,391,851; Dec. 25.
Golf tee. B. A. Coffin. 2,391,392; Dec. 25.
Grate, Fire. W. L. Sharpe. 2,391,518; Dec. 25.
Grinding and lapping machine. E. J. Bullard. 2,391,388; Dec. 25.
Grinding or abrading machine. H. Morcland. 2,391,733; Dec. 25.
Grommet, Shell. W. J. Friderici. 2,391,403; Dec. 25.
Gun. G. S. McArthur. 2,391,636; Dec. 25.
Hanger: *See*—
Clothes hanger.
Harmonic generator. W. E. Bradley. 2,391,386; Dec. 25.
Heat interchange apparatus, Making. J. V. Caron. 2,391,615; Dec. 25.
Heater: *See*—
Regenerative gas heater. Vehicle heater.
Heel attaching machine. J. W. Carr and T. B. Clarke. 2,391,543; Dec. 25.





High pressure separation. D. L. Katz and T. H. Whaley, Jr. 2,391,576; Dec. 25.
High pressure separation process. T. H. Whaley. 2,391,607; Dec. 25.
Holder: *See*—
Self-releasing die holder. Tube holder.
Hose clamp. N. D. Smith. 2,391,804; Dec. 25.
Housing unit. H. O. Chapman and R. Evans. 2,391,544; Dec. 25.
Hydantoin manufacture. A. O. Rogers. 2,391,799; Dec. 25.
Hydraulic coupling. J. F. Gregg. 2,391,413; Dec. 25.
Hydraulic duplicating mechanism and exhaust governor. M. Turchan and C. Walker. 2,391,492; Dec. 25.
Hydrocarbons, Conversion of. R. F. Ruthruff. 2,391,481; Dec. 25.
Hydrocarbons, Processing of. E. W. M. Fawcett and E. S. Narracott. 2,391,775; Dec. 25.
Hydrocarbons, Treatment of. A. V. Grosse and C. B. Linn. 2,391,415; Dec. 25.
Hydrocarbons, Treatment of. R. F. Ruthruff. 2,391,482; Dec. 25.
Igniter for grenades and the like. J. W. Edmands. 2,391,823; Dec. 25.
Illuminating arrangement. F. G. Back. 2,391,611; Dec. 25.
Indicator: *See*—
Liquid level indicator.
Inorganic by-products from waste pulp liquor, Method and apparatus for recovering. E. G. Goodell. 2,391,566; Dec. 25.
Insulation. A. B. Richards and H. S. Atherton. 2,391,515; Dec. 25.
Insulation slitting tool. C. V. Lundeen. 2,391,721; Dec. 25.
Internal combustion engine, Two-stroke cycle. E. M. Fisk. 2,391,402; Dec. 25.
Iron oxide, Making. C. A. Mann. 2,391,723; Dec. 25.
Isomerization of paraffins. C. G. Dryer. 2,391,399; Dec. 25.
Joint: *See*—
Pipe joint.
Knitting machine. E. Wildt, H. H. Holmes, and A. H. Widdowson. 2,391,665; Dec. 25.
Knitting machine, Circular. H. H. Holmes. 2,391,625; Dec. 25.
Knot tightening device. J. E. Schmidt. 2,391,644; Dec. 25.
Labeling machine. A. C. Everett. 2,391,694; Dec. 25.
Laboratory hammer mill. W. H. Ross, E. S. Shipley, J. F. Mullins, and J. O. Hardesty. 2,391,480; Dec. 25.
Latch: *See*—
Screen door latch.
Lens coating, Nonreflective. D. L. Richards and W. C. Miller. 2,391,595; Dec. 25.
Leveler, Roller. R. F. Holtz. 2,391,419; Dec. 25.
Lever for coupling pins, Safety locking. M. Altimus. 2,391,610; Dec. 25.
Liquid level indicator. L. B. Winton. 2,391,852; Dec. 25.
Liquid treating apparatus. F. D. Prager. 2,391,738; Dec. 25.
Liquid treating apparatus and process. W. H. Green. 2,391,697; Dec. 25.
Load handling apparatus. A. Mackmann and W. F. Ardussi. 2,391,580; Dec. 25.
Loader, Front end. W. Armstrong. 2,391,538; Dec. 25.
Lock: *See*—
Cylinder lock.
Lock-nut. H. P. Randall. 2,391,513; Dec. 25.
Locking device. R. A. Martin and A. W. Say. 2,391,724; Dec. 25.
Loom: *See*—
Convertible weft re-plenishing loom.
Low melting point alloys, Purification of. A. B. Richards and J. T. O'Reilly. 2,391,516; Dec. 25.
Lubricant, Goldbeater's. D. D. Swift. 2,391,654; Dec. 25.
Lubricating arrangement for power driven saws. W. T. Melvin and R. L. Rougement. 2,391,730; Dec. 25.
Lubricating greases. J. D. Morgan. 2,391,842; Dec. 25.
Lubrication material, Goldbeater. D. D. Swift. 2,391,653; Dec. 25.
Machine for inserting cartridges into cartridge belts for automatic guns. C. T. Hall and R. W. Harris. 2,391,568; Dec. 25.
Machine for making cushions. J. H. Woodall 2,391,814; Dec. 25.
Machine for molding tuyères. R. B. Keplinger and C. A. Fry. 2,391,424; Dec. 25.
Machine for turning windrowed hemp and the like. J. B. Kucera 2,391,427; Dec. 25.
Machine for utilizing power. J. S. Parenti. 2,391,476; Dec. 25.
Machine tool. I. J. Snader. 2,391,487; Dec. 25.
Machine tool for manufacturing aircraft wings. W. F. Ploch and J. W. Mistele. 2,391,511; Dec. 25.
Magazine for firearms. J. Vesely. 2,391,756; Dec. 25.
Magazines of firearms, Unloading. R. L. Jenkinson. 2,391,423; Dec. 25.
Magnesium and its alloys from fire, Protecting. J. B. Reid. 2,391,844; Dec. 25.
Magnesium from vapor mixtures, Recovery of. R. C. Kirk, C. E. Nelson, and T. H. McConica, III. 2,391,713; Dec. 25.
Magnesium, Producing. T. H. McConica, III. 2,391,727; Dec. 25.
Magnetic multivibrator. M. Chodorow. 2,391,546; Dec. 25.
Magnetostriction transducer. F. P. Bundy. 2,391,678; Dec. 25.
Manifolds, Making. R. Long. 2,391,468; Dec. 25.
Mask, Welder's. T. H. Grindrod and A. E. Church. 2,391,565; Dec. 25.
Mechanism for automatic guns, Firing. J. Vesely. 2,391,757; Dec. 25.
Mechanism for magnetos, Grounding. H. L. Hartzell. 2,391,854; Dec. 25.
Mechanism for switching devices, Gang-operating. C. R. Craig. 2,391,681; Dec. 25.
Mechanism for testing machines, Grip. F. A. Melzer. 2,391,435; Dec. 25.
Mechanism for treating wire rope. H. J. Mische. 2,391,793; Dec. 25.
Metal sheet and making same, Treated. R. R. Tanner. 2,391,656; Dec. 25.
Metallurgical apparatus. C. J. Westling. 2,391,496; Dec. 25.
Molded plastic die members with electric heating elements embodied therein, Manufacturing. C. F. Marschner and E. W. Bryan. 2,391,432; Dec. 25.
Molding. A. J. Stamm and H. D. Turner. 2,391,489; Dec. 25.
Molding machine. P. C. Tracy. 2,391,527; Dec. 25.
Molds having transition cores, Making. R. J. Miller. 2,391,587; Dec. 25.
Motor: *See*—
Servo motor.
Mounting: *See*—
Collar can collar mounting.
Mounting means. K. B. Austin. 2,391,668; Dec. 25.
Mud, Drilling. T. H. Dunn. 2,391,622; Dec. 25.
Multistage centrifugal pump. E. A. Wilhelm. 2,391,811; Dec. 25.
Musical signal device. A. C. Grohsgal. 2,391,698; Dec. 25.
Naphthenic acids, Purification of. W. E. McCorquodale, Jr. 2,391,729; Dec. 25.
Necktie. A. F. Taborski. 2,391,655; Dec. 25.
Needle and making same, Felting. E. P. Foster. 2,391,560; Dec. 25.
Nitroso beta naphthol composition. V. L. King and H. P. Orem. 2,391,837; Dec. 25.
Nut, Self-locking. C. H. Ineson. 2,391,421; Dec. 25.
Nut, Self-locking. F. R. Reutter. 2,391,643; Dec. 25.
Nuts, Making self-locking. R. D. King and N. F. Wood. 2,391,712; Dec. 25.
Nutritional preparations and process. A. D. Welch and L. D. Wright. 2,391,850; Dec. 25.
Object-locating system, Automatically operated. A. Korn, J. W. Hess, and S. L. Ruskin. 2,391,633; Dec. 25.
Oil burner. H. B. Hagg. 2,391,567; Dec. 25.
Oil burner. C. A. Miller. 2,391,585; Dec. 25.
Oil well screen. K. A. Wright. 2,391,609; Dec. 25.
Olefins, Dehydrogenating. W. A. Schulze, J. C. Hillyer, and H. E. Drennan. 2,391,646; Dec. 25.
1,4-dichloro-2-butene, Reaction products of. R. F. Taylor. 2,391,849; Dec. 25.
1,3,5-triazinyl-phenyl-sulphides carrying a metallic radical. E. A. H. Friedheim. 2,391,452; Dec. 25.
Opener, Can. M. A. Mirando. 2,391,732; Dec. 25.
Organic materials, Drying raw. J. M. Baer. 2,391,441; Dec. 25.
Ornamental container. C. Huber. 2,391,429; Dec. 25.
Overhead door construction. A. V. Rowe. 2,391,845; Dec. 25.
Overvoltage hazard in alternating current circuits, Eliminating the switching. E. W. Boehm and H. A. Peterson. 2,391,672; Dec. 25.
Oxygen supplying mask, High altitude. A. H. Bulbulian. 2,391,677; Dec. 25.
Oyster opening machine. G. R. Ragupos. 2,391,739; Dec. 25.
Pad for evaporative coolers. B. Essick. 2,391,558; Dec. 25.
Pan, Bake. R. F. Beerend. 2,391,767; Dec. 25.
Pan, Baking. A. F. Ward. 2,391,660; Dec. 25.
Panel, Oven-wall. W. J. Miskella. 2,391,436; Dec. 25.
Pantie. M. A. O'Hern. 2,391,641; Dec. 25.
Paper, Coating. G. M. Powell, III, and W. H. McKnight. 2,391,621; Dec. 25.
Paper, Moistureproofing. R. W. Quarles and A. K. Doolittle. 2,391,620; Dec. 25.
Paste for sealing threaded joints and like parts, Anti-seizing. A. L. Parker. 2,391,504; Dec. 25.
Pedal drive. J. Wasem. 2,391,809; Dec. 25.
Peeler, Lye. L. E. Kibler. 2,391,630; Dec. 25.
Pellets for sintering, Preparing. J. S. Naratil. 2,391,588; Dec. 25.
Pen, Fountain. M. Boral. 2,391,385; Dec. 25.
Pen, Fountain. E. E. Ejerson. 2,391,557; Dec. 25.
Penstock and fabricating penstocks. E. E. Schoessow. 2,391,747; Dec. 25.
Phase modulation receiving system. B. Trevor. 2,391,807; Dec. 25.
Pile casing. A. Hood. 2,391,828; Dec. 25.

Pile fabrics and loom used in the production thereof, Producing double faced. R. G. Kavanagh. 2,391,835; Dec. 25.
Pipe: *See*—
Tobacco pipe.
Pipe Joint. W. E. Winn. 2,391,761; Dec. 25.
Plaster body and making. X. Bean. 2,391,855; Dec. 25.
Plate, Screen. F. J. O'Brien. 2,391,501; Dec. 25.
Pliers. B. E. Range. 2,391,796; Dec. 25.
Polychloroprenes, Reclaiming waste. W. G. Kirby and L. E. Steinle. 2,391,714; Dec. 25.
Polymerization of organic liquids. R. T. Coffman and B. M. Marks. 2,391,393; Dec. 25.
Portable insulation slitting tool. C. V. Lundeen. 2,391,722; Dec. 25.
Portable range. S. T. Howard. 2,391,460; Dec. 25.
Position control mechanism. H. F. Lawrence. 2,391,578; Dec. 25.
Power steering gear. W. K. Creson. 2,391,819; Dec. 25.
Power tail gate. L. S. Wood. 2,391,813; Dec. 25.
Preparation of a phosphatide composition. P. L. Julian and E. W. Meyer. 2,391,462; Dec. 25.
Preasure sensitive labels, Making. R. S. Avery. 2,391,539; Dec. 25.
Printing method and product. S. Isenberg. 2,391,705; Dec. 25.
Projecting television pictures, Process and appliance for. F. E. Fischer. 2,391,451; Dec. 25.
Propeller control mechanism. J. F. Haines and T. B. Martin. 2,391,699; Dec. 25.
Propeller, Variable pitch. M. Gregor. 2,391,778; Dec. 25.
Propeller, Variable pitch. C. Keller. 2,391,629; Dec. 25.
Proportioning pump. W. J. Hughes. 2,391,703; Dec. 25.
Protective device. E. J. Wade and J. Horvath, Jr. 2,391,758; Dec. 25.
Pulley structure for belt-type elevators. J. C. Reed. 2,391,642; Dec. 25.
Pump: *See*—
Fluid pressure pump.
Multistage centrifugal pump.
Proportioning pump.
Self-priming pump.
Pump. W. F. Thompson. 2,391,806; Dec. 25.
Pumping system and apparatus. A. E. Nittka. 2,391,734; Dec. 25.
Push button for timepieces, Waterproof. J. Simon. 2,391,803; Dec. 25.
Pyrolysis of alkanols. J. L. Amos and F. J. Soderquist. 2,391,667; Dec. 25.
Radiant heater. D. Edge. 2,391,447; Dec. 25.
Razor blade holder for sharpening. P. C. Rhegas. 2,391,741; Dec. 25.
Razor, Safety. R. C. Warner. 2,391,606; Dec. 25.
Reaction products of hydroxylated polyamines, higher molecular weight carboxylic acids and organic sulphonic acids. D. W. Jayne, Jr., and H. M. Day. 2,391,830; Dec. 25.
Receptacle: *See*—
Dispensing receptacle.
Reciprocatory motion apparatus. T. Jordan. 2,391,785; Dec. 25.
Record controlled tape punching machine. C. R. Doty. 2,391,773; Dec. 25.
Recorder, Facsimile. A. Blain. 2,391,768; Dec. 25.
Reel: *See*—
Spring-wound cord-controlled take-up reel.
Refractometer. M. Silge. 2,391,599; Dec. 25.
Refrigerating apparatus. L. A. Philipp. 2,391,507; Dec. 25.
Regenerative gas heater. F. Totzek. 2,391,491; Dec. 25.
Regulator: *See*—
Voltage regulator.
Relay, Self-locking. L. W. Burch. 2,391,444; Dec. 25.
Reproducing television pictures, Method and apparatus for. F. E. Fischer. 2,391,450; Dec. 25.
Resilient fastener. J. W. Simmons. 2,391,650; Dec. 25.
Resistance device. G. L. Pearson. 2,391,506; Dec. 25.
Retainer, Lamp shade. S. R. Kazanjian. 2,391,711; Dec. 25.
Retort construction. D. L. Newkirk and E. E. Ensign. 2,391,439; Dec. 25.
Retractor and drive, Stud bolt. E. Heuer. 2,391,624; Dec. 25.
Reversible engine. M. W. Huber. 2,391,575; Dec. 25.
Rifle, Semiautomatic. R. F. Gerfen. 2,391,562; Dec. 25.
Rivet cutter. N. S. McEwen. 2,391,637; Dec. 25.
Rolling. C. J. Fiscus. 2,391,401; Dec. 25.
Rotary pump shaft seal. S. E. Larson. 2,391,577; Dec. 25.
Rotor, Bladed. F. A. M. Heppner. 2,391,623; Dec. 25.
Rotors, Casting. C. E. Sorensen. 2,391,523; Dec. 25.
Safety control and ignition system. C. K. Strobel. 2,391,753; Dec. 25.
Safety device. R. R. Cramer. 2,391,682; Dec. 25.
Safety device. J. J. Porter. 2,391,593; Dec. 25.
Salts of monoquinonyl-acid-amides, Color compositions containing. R. H. Kienle and C. A. Amick. 2,391,836; Dec. 25.
Sanding machine. J. P. Elliott. 2,391,448; Dec. 25.
Scraper, Draft operated. W. F. McCarthy. 2,391,584; Dec. 25.
Screen: *See*—
Oil well screen.
Screen door latch. S. Oxhandler. 2,391,736; Dec. 25.
Sealing compound, Leak. A. C. Pabst. 2,391,737; Dec. 25.
Sealing mechanism. W. Diesel. 2,391,684; Dec. 25.
Selenium coated plates, Forming blocking layers on. L. R. Jackson and W. F. Stewart. 2,391,706; Dec. 25.
Self-priming pump. R. D. Campbell. 2,391,769; Dec. 25.
Self-pulsing circuit. M. Chodorow. 2,391,545; Dec. 25.
Self-releasing die holder. W. M. Berg. 2,391,671; Dec. 25.
Self-sealing fuel tank. E. C. Phillips. 2,391,477; Dec. 25.
Self-wiping electric plug connector. H. Korn. 2,391,425; Dec. 25.
Sensitization of hydrogen bromide catalyzed oxidation reactions. J. H. Raley. 2,391,740; Dec. 25.
Separator. E. S. Gorton. 2,391,412; Dec. 25.
Separator. W. D. Yerrick and A. Jensen. 2,391,534; Dec. 25.
Servo motor. R. H. Hill. 2,391,702; Dec. 25.
Sewage comminuting apparatus. W. J. Hughes. 2,391,704; Dec. 25.
Sewage, Method and apparatus for treating. J. D. Walker. 2,391,494; Dec. 25.
Sewing machine. H. L. Bagwell. 2,391,379; Dec. 25.
Sewing machine. C. C. Smith. 2,391,519; Dec. 25.
Sewing machines, Thread take-up for. C. F. Rubel. 2,391,517; Dec. 25.
Sharpener, Razor blade. D. Heller. 2,391,701; Dec. 25.
Shear. T. Serdich. 2,391,598; Dec. 25.
Shear, Pneumatic pruning. L. Browning. 2,391,676; Dec. 25.
Sheet metal, Process of and apparatus for operating on. C. M. Yoder. 2,391,499; Dec. 25.
Shock absorber, Friction. G. E. Dath. 2,391,618; Dec. 25.
Shoe. A. Moskowitz and W. S. Milius. 2,391,437; Dec. 25.
Shoe and outsole therefor, and making the same. J. Gregg. 2,391,564; Dec. 25.
Shoe machine. B. Jorgensen. 2,391,461; Dec. 25.
Shoemaking. H. G. Lumbard. 2,391,789; Dec. 25.
Shutter, Camera. T. McG. Aiken. 2,391,377; Dec. 25.
Signaling device. A. D. Baker. 2,391,669; Dec. 25.
Sound recording and reproducing machine. W. E. Johnston. 2,391,784; Dec. 25.
Soup, Dehydrated. L. J. Huber. 2,391,829; Dec. 25.
Spark plug and electrode therefor. F. R. Hensel. 2,391,455; Dec. 25.
Spark plug and electrode therefor. F. R. Hensel. 2,391,459; Dec. 25.
Speed control device, Automotive vehicle. A. F. Miller. 2,391,586; Dec. 25.
Splint, Surgical. J. J. Ettinger. 2,391,693; Dec. 25.
Spotting unit, Steam. A. J. Weber and E. L. Chrisman. 2,391,663; Dec. 25.
Spray control valve. E. E. Martin. 2,391,582; Dec. 25.
Spring-wound cord-controlled take-up reel. A. Meletti. 2,391,840; Dec. 25.
Spur, Pole climbing. H. R. Webber. 2,391,810; Dec. 25.
Stabilization of halogenated compounds. L. Egerton. 2,391,685; Dec. 25.
Stabilization of halogenated compounds. L. Egerton. 2,391,689; Dec. 25.
Steam generator. T. C. Johnson. 2,391,628; Dec. 25.
Steering apparatus, Marine. F. C. Schoen, De W. F. Evans, and F. C. T. Schoen. 2,391,645; Dec. 25.
Stereoscope. L. H. Brown. 2,391,675; Dec. 25.
Sterols, Treatment of. J. Rosin. 2,391,743; Dec. 25.
Stitching machine. W. R. Spiller and R. J. Niederhauser. 2,391,488; Dec. 25.
Stoker apparatus. A. F. Schultz and D. J. Mosshart. 2,391,596; Dec. 25.
Stoker apparatus. E. R. Stone. 2,391,600; Dec. 25.
Stoker apparatus, Spreader. A. F. Schwendner. 2,391,597; Dec. 25.
Structure for airplanes, Wing. W. T. Reid. 2,391,514; Dec. 25.
Substation circuit. A. E. Woodruff. 2,391,533; Dec. 25.
Sugar refining. R. W. Shafor. 2,391,649; Dec. 25.
Sugar solutions, Purification of. F. N. Rawlings. 2,391,843; Dec. 25.
Sulphanilamide derivatives, Production of. F. B. Zienty. 2,391,853; Dec. 25.
Support for gas analysis apparatus, Manifold. G. W. Carlson. 2,391,390; Dec. 25.
Supporting means. A. J. Loepsinger. 2,391,467; Dec. 25.
Surge brake for trailers. C. J. Wagner. 2,391,603; Dec. 25.
Switch: *See*—
Door switch.
Switch circuit for automatic telephone system, Selector. H. E. Grimes. 2,391,414; Dec. 25.
Switch for fluorescent lamp starters, Lock-out. L. W. Cook. 2,391,680; Dec. 25.
Synthesis of wound hormone. J. English, Jr., J. Bonner, and A. J. Haagen-Smit. 2,391,824; Dec. 25.
Synthetic rubber compositions. A. V. Roberts. 2,391,742; Dec. 25.
Table: *See*—
Billiard table.





Tank: *See*—
Self-sealing fuel tank.
Telephone system. K. L. Burgener. 2,391,389; Dec. 25.
Terminal element. K. J. Chichester. 2,391,391; Dec. 25.
Three-way valve. A. L. Parker and E. C. Hartley. 2,391,505; Dec. 25.
Timer, Towel cabinet. R. Morris. 2,391,471; Dec. 25.
Tire. B. B. Levy. 2,391,579; Dec. 25.
Tire construction. B. E. Mendelsohn. 2,391,841; Dec. 25.
Tire inflating device. G. E. Stevenson. 2,391,652; Dec. 25.
Tire tool. B. W. Howard. 2,391,626; Dec. 25.
Tobacco pipe. G. R. Comptois. 2,391,548; Dec. 25.
Tool: *See*—
Abrasive tool.
Insulation slitting tool.
Machine tool.
Portable insulation slitting tool.
Tire tool.
Tool driver. W. Muir. 2,391,438; Dec. 25.
Toy. A. Raspet. 2,391,797; Dec. 25.
Toy. R. T. Walker. 2,391,529; Dec. 25.
Train booster. J. E. Tavelin. 2,391,657; Dec. 25.
Transducer. A. S. Howell. 2,391,627; Dec. 25.
Transmission. L. Jacobi. 2,391,783; Dec. 25.
Transmission system, Intelligence. G. L. Fredendall. 2,391,776; Dec. 25.
Trap. V. L. Nemec. 2,391,640; Dec. 25.
Triangle, Adjustable. I. Levin. 2,391,466; Dec. 25.
Tube: *See*—
Electron tube.
Tube holder. G. D. Walker, C. E. Oulsnam, and F. Krysa. 2,391,528; Dec. 25.
Tubes, Manufacturing. G. E. Barnhart. 2,391,766; Dec. 25.
Turbine nozzle structure. C. E. Kenney. 2,391,786; Dec. 25.
Turbocompressor. A. A. Griffith. 2,391,779; Dec. 25.
2-amino-pyrimidenes, Producing. M. N. Dvornikoff. 2,391,822; Dec. 25.
Undergarment, Combination. B. Du B. Cangelosé. 2,391,770; Dec. 25.
Union. F. H. Knight and R. T. Watts. 2,391,632; Dec. 25.
Unit, Heating. J. Bilan. 2,391,382; Dec. 25.
Unit, Separable packing. E. V. Bloomquist. 2,391,383; Dec. 25.
Unsaturated hydrocarbons from a hydrocarbon mixture, Separation of. B. S. Friedman and R. F. Stedman. 2,391,404; Dec. 25.
Valve: *See*—
Balanced valve.
By-pass control valve.
Fluid pressure control valve.
Spray control valve.
Three-way valve.
Valve control for internal-combustion engines. P. E. Barker. 2,391,380; Dec. 25.
Valve device. E. E. Martin. 2,391,583; Dec. 25.
Vapor and liquid contact device. J. M. Larsen. 2,391,464; Dec. 25.
Vehicle heater. J. Galamb and T. L. Hibbard. 2,391,408; Dec. 25.
Vehicle track construction. C. E. Sorensen and L. S. Sheldrick. 2,391,524; Dec. 25.
Venetian blind tilter. J. Nisenson. 2,391,500; Dec. 25.
Vinyl chloride, Synthesis of. W. A. Lazier and G. M. Whitman. 2,391,465; Dec. 25.
Voltage regulator. A. Toelle and C. R. Salet. 2,391,526; Dec. 25.
Wall construction and fastener therefor. W. S. Miles and P. A. Voigt. 2,391,792; Dec. 25.
Washing machine. C. A. Lindemann. 2,391,718; Dec. 25.
Weapon, Police. R. L. Hutchison. 2,391,782; Dec. 25.
Weft replenishing loom, Convertible. R. G. Turner. 2,391,602; Dec. 25.
Well flow device. R. O. Walton. 2,391,605; Dec. 25.
Wind recording apparatus. M. D. Thomas and J. O. Ivie. 2,391,601; Dec. 25.
Winding machine. R. E. Morton. 2,391,472; Dec. 25.
Wire gauge, Thread and stranded. S. Pantages. 2,391,590; Dec. 25.
Wire twisting device. A. C. Goddard. 2,391,696; Dec. 25.
Wood, Coloring. C. K. Black. 2,391,613; Dec. 25.
Workholder for arc-welding apparatus. J. R. Wirt. 2,391,762; Dec. 25.
Wrench. J. A. Cogbill. 2,391,394; Dec. 25.

# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 25, 1945

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 15: 2,391,488
2— 21: 2,391,851
42: 2,391,417
73: 2,391,770
93: 2,391,535
150: 2,391,655
224: 2,391,641
245: 2,391,429
5— 60: 2,391,746
8— 6.5: 2,391,613
70: 2,391,836
111: 2,391,710
9— 2: 2,391,594
10— 86: 2,391,712
89: 2,391,671
135: 2,391,438
12— 14: 2,391,461
42: 2,391,543
142: 2,391,789
146: 2,391,446
17— 9: 2,391,739
18— 12: 2,391,638
16: 2,391,527
61: 2,391,805
19— 140: 2,391,754
20— 2: 2,391,544
22— 13: 2,391,715
192: 2,391,855
193: 2,391,587
2,391,615
200.5: 2,391,523
23— 14: 2,391,490
200: 2,391,723
230: 2,391,522
24— 19: 2,391,804
143: 2,391,788
263: 2,391,435
25— 33: 2,391,424
26— 55: 2,391,547
28— 4: 2,391,560
77: 2,391,574
29— 33: 2,391,511
148: 2,391,405
156: 2,391,499
2,391,766
30— 22: 2,391,732
34: 2,391,695
68: 2,391,606
91: 2,391,722
229: 2,391,598
33— 199: 2,391,590
226: 2,391,442
34— 15: 2,391,441
57: 2,391,484
68: 2,391,764
36— 11.5: 2,391,720
19.5: 2,391,437
30: 2,391,564
68: 2,391,445
70: 2,391,707
37— 147: 2,391,584
40— 134: 2,391,705
42— 3: 2,391,562
2,391,757
6: 2,391,423
18: 2,391,756
43— 3: 2,391,475
61: 2,391,640
46— 8: 2,391,797
43: 2,391,529
47— 61: Pl. Pt. 664
Pl. Pt. 665
48— 192: 2,391,592
51— 38: 2,391,448
80: 2,391,478
100: 2,391,733
123: 2,391,406
131: 2,391,388
161: 2,391,701
164: 2,391,634
188: 2,391,731

51— 190: 2,391,449
221: 2,391,741
307: 2,391,589
56— 364: 2,391,763
370: 2,391,427
57— 76: 2,391,781
164: 2,391,493
58— 38: 2,391,800
90: 2,391,803
115: 2,391,816
60— 54: 2,391,413
97: 2,391,492
61— 48: 2,391,612
57: 2,391,828
62— 116: 2,391,507
63— 14: 2,391,635
64— 25: 2,391,525
66— 24: 2,391,663
150: 2,391,625
68— 12: 2,391,561
70— 172: 2,391,498
363: 2,391,834
367: 2,391,832
2,391,833
72— 121: 2,391,581
73— 189: 2,391,601
299: 2,391,852
74— 36: 2,391,725
37: 2,391,785
189.5: 2,391,648
333: 2,391,783
407: 2,391,418
75— 3: 2,391,588
66: 2,391,728
67: 2,391,713
2,391,727
77— 1: 2,391,487
3: 2,391,398
5: 2,391,463
58: 2,391,794
67: 2,391,398
81— 6: 2,391,521
46: 2,391,796
53: 2,391,624
88: 2,391,604
121: 2,391,394
85— 36: 2,391,650
86— 48: 2,391,568
87— 31: 2,391,433
88— 1: 2,391,595
14: 2,391,599
17: 2,391,497
24: 2,391,430
29: 2,391,675
32: 2,391,659
89— 1: 2,391,636
28: 2,391,473
93— 2: 2,391,791
6: 2,391,708
95— 60: 2,391,377
98— 1.5: 2,391,486
2: 2,351,408
99— 11: 2,391,850
57: 2,391,559
83: 2,391,474
124: 2,391,829
285: 2,391,397
421: 2,391,571
438: 2,391,767
101— 93: 2,391,825
102— 1: 2,391,403
70: 2,391,823
103— 46: 2,391,556
72: 2,391,642
106: 2,391,811
113: 2,391,769
152: 2,391,703
173: 2,391,575
231: 2,391,542
233: 2,391,605
260: 2,391,734

105— 31: 2,391,657
106— 18: 2,391,749
18: 2,391,750
2,391,751
33: 2,391,737
36: 2,391,416
62: 2,391,454
121: 2,391,493
218: 2,391,837
108— 33: 2,391,792
110— 38: 2,391,600
44: 2,391,578
2,391,596
115: 2,391,597
112— 110: 2,391,378
200: 2,391,519
218: 2,391,379
248: 2,391,517
113— 24: 2,391,664
113: 2,391,381
120: 2,391,656
114— 144: 2,391,645
117— 65: 2,391,619
2,391,621
76: 2,391,620
129: 2,391,468
137: 2,391,844
120— 42: 2,391,557
47: 2,391,385
83: 2,391,392
121— 21: 2,391,676
122— 448: 2,391,628
123— 70: 2,391,402
73: 2,391,380
169: 2,391,455
2,391,456
2,391,457
2,391,458
2,391,459
126— 1: 2,391,460
91: 2,391,447
165: 2,391,518
390: 2,391,660
127— 46: 2,391,649
2,391,843
128— 84: 2,391,537
2,391,693
142: 2,391,677
146: 2,391,565
130— 5: 2,391,846
131— 211: 2,391,548
132— 84: 2,391,651
136— 177: 2,391,820
178: 2,391,666
137— 153: 2,391,551
2,391,790
138— 40: 2,391,586
75: 2,391,409
139— 21: 2,391,835
185: 2,391,726
232: 2,391,602
351: 2,391,591
140— 119: 2,391,686
126: 2,391,679
143— 32: 2,391,730
144— 281: 2,391,426
309: 2,391,489
146— 47: 2,391,630
148— 11.5: 2,391,401
150— 0.5: 2,391,477
151— 7: 2,391,421
2,391,643
21: 2,391,513
152— 252: 2,391,579
342: 2,391,841
421: 2,391,652
153— 32: 2,391,793
54: 2,391,419
154— 2: 2,391,539
28: 2,391,515
29: 2,391,814

157— 6: 2,391,626
158— 91: 2,391,567
92: 2,391,585
113: 2,391,593
117.1: 2,391,753
160— 174: 2,391,709
176: 2,391,500
201: 2,391,845
161— 1: 3,391,718
164— 36: 2,391,721
41: 2,391,637
61: 2,391,719
115: 2,391,773
166— 6: 2,391,609
167— 31: 2,391,798
52: 2,391,552
78: 2,391,540
170—135.6: 2,391,629
162: 2,391,778
163: 2,391,699
171— 95: 2,391,532
209: 2,391,854
312: 2,391,787
2,391,801
173— 273: 2,391,428
363: 2,391,425
175— 30: 2,391,758
41: 2,391,685
2,391,686
2,391,687
2,391,688
2,391,689
294: 2,391,672
336: 2,391,692
350: 2,391,563
177— 7: 2,391,689
2,391,696
353: 2,391,469
2,391,479
386: 2,391,633
2,391,678
178— 7.5: 2,391,450
2,391,451
179— 18: 2,391,414
27: 2,391,398
81: 2,391,533
119: 2,391,627
180— 17: 2,391,735
79.2: 2,391,819
183— 57: 2,391,534
188— 107: 2,391,664
142: 2,391,603
166: 2,391,724
189— 23: 2,391,536
34: 2,391,436
192— 82: 2,391,682
107: 2,391,495
142: 2,391,470
2,391,702
196— 52: 2,391,434
2,391,481
2,391,482
73: 2,391,576
88: 2,391,607
197— 6.6: 2,391,777
134: 2,391,760
198— 33: 2,391,691
103: 2,391,802
170: 2,391,700
200— 54: 2,391,549
87: 2,391,444
90: 2,391,668
104: 2,391,400
114: 2,391,748
122: 2,391,680
146: 2,391,759
148: 2,391,826
153: 2,391,681
166: 2,391,391
201— 48: 2,391,526
63: 2,391,506

201— 69: 2,391,744
202— 19: 2,391,566
38: 2,391,443
40: 2,391,541
204— 56: 2,391,706
206— 1: 2,391,390
58: 2,391,617
207— 10: 2,391,752
209— 75: 2,391,412
397: 2,391,501
210— 5: 2,391,494
16: 2,391,667
2,391,738
122.1: 2,391,716
152: 2,391,704
212— 144: 2,391,440
213— 188: 2,391,610
214— 1: 2,391,510
77: 2,391,813
139: 2,391,538
216— 55: 2,391,694
219— 17: 2,391,762
19: 2,391,432
34: 2,391,382
220— 54: 2,391,772
222— 318: 2,391,806
223— 88: 2,391,661
224— 2: 2,391,574
227— 27: 2,391,810
229— 23: 2,391,639
47: 2,391,774
230— 116: 2,391,779
132: 2,391,512
134: 2,391,623
177: 2,391,476
234— 66: 2,391,766
70: 2,391,765
235— 66: 2,391,570
83: 2,391,771
240— 129: 2,391,711
241— 100: 2,391,480
242— 43: 2,391,472
107: 2,391,840
244— 117: 2,391,662
123: 2,391,514
248— 1: 2,391,420
2,391,466
54: 2,391,467
106: 2,391,528
123: 2,391,795
250— 1: 2,391,411
2,391,554
11: Re. 22,704
20: 2,391,807
27: 2,391,776
27.5: 2,391,690
2,391,780
36: 2,391,396
2,391,545
2,391,546
251— 75: 2,391,531
95: 2,391,505
252— 1: 2,391,462
8.5: 2,391,622
37: 2,391,504
2,391,842
42.1: 2,391,653
2,391,654
46.6: 2,391,631
99: 2,391,647
253— 78: 2,391,786
254— 51: 2,391,644
86: 2,391,384
186: 2,391,580
255— 43: 2,391,553
257— 9: 2,391,838
259— 4: 2,391,496
260— 72: 2,391,683
79: 2,391,742
83: 2,391,393
84.5: 2,391,817

260— 92.7: 2,391,714
112: 2,391,387
208: Re. 22,705
229: 2,391,589
239.6: 2,391,853
242: 2,391,452
250: 2,391,745
251: 2,391,822
2,391,847
309.5: 2,391,799
397.2: 2,391,743
401: 2,391,830
404.5: 2,391,831
475: 2,391,849
483: 2,391,530
485: 2,391,824
514: 2,391,729
533: 2,391,740
581: 2,391,848
614: 2,391,815
621: 2,391,830
655: 2,391,827
656: 2,391,465
668: 2,391,818
669: 2,391,404
2,391,821
680: 2,391,555
2,391,646
681: 2,391,508
2,391,509
2,391,667
683.4: 2,391,399
2,391,415
683.5: 2,391,775
261— 16: 2,391,410
69: 2,391,755
114: 2,391,464
2,391,502
262— 33: 2,391,485
263— 19: 2,391,491
266— 19: 2,391,439
34: 2,391,516
267— 9: 2,391,618
271— 2.3: 2,391,471
273— 6: 2,391,395
84: 2,391,782
136: 2,391,520
274— 9: 2,391,784
279— 50: 2,391,550
280— 33.5: 2,391,503
43: 2,391,658
47: 2,391,608
253: 2,391,809
281— 1: 2,391,673
285— 111: 2,391,747
120: 2,391,632
185: 2,391,761
286— 5: 2,391,383
292— 7: 2,391,407
76: 2,391,431
169: 2,391,736
299— 24: 2,391,558
84: 2,391,663
95: 2,391,582
2,391,583
107.6: 2,391,806
121: 2,391,616
146: 2,391,422
305— 10: 2,391,524
308— 77: 2,391,670
187.1: 2,391,577
311— 11: 2,391,717
312— 144: 2,391,614
151: 2,391,453
315— 120: 2,391,812
200: 2,391,611
316— 19: 2,391,572
2,391,573

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2,391,397: | 99—285 | 2,391,453: | 312—151 | 2,391,571: | 99—421 | 2,391,611: | 315—200 | 2,391,716: | 210—122.1 |
| 2,391,402: | 123— 70 | 2,391,477: | 150—0.5 | 2,391,572: | 316— 19 | 2,391,620: | 117— 76 | 2,391,749: | 106— 18 |
| 2,391,404: | 260—669 | 2,391,493: | 106—121 | 2,391,573: | 316— 19 | 2,391,631: | 252—46.6 | 2,391,750: | 106— 18 |
| 2,391,420: | 248— 1 | 2,391,536: | 189— 23 | 2,391,587: | 22—193 | 2,391,673: | 281— 1 | 2,391,751: | 106— 18 |
| 2,391,439: | 266— 19 | 2,391,543: | 12— 42 | 2,391,593: | 158—113 | 2,391,697: | 210— 16 | 2,391,763: | 56—364 |
| 2,391,443: | 202— 38 | 2,391,558: | 299— 24 | 2,391,598: | 30—229 | 2,391,713: | 22— 13 | 2,391,774: | 229— 47 |
| | | | | | | | | | |
| 2,391,785: | 74— 37 | | | | | | | | |

## CLASSIFICATION OF DESIGNS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D 3— 4: | Des. 143,306 | D33— 7: | Des. 143,265 | D44— 1: | Des. 143,301 | D48—27: | Des. 143,281 | D58— 4: | Des. 143,283 |
| | Des. 143,307 | | Des. 143,266 | | 9: Des. 143,321 | | 32: Des. 143,310 | | Des. 143,284 |
| | 19: Des. 143,286 | | 8: Des. 143,348 | | 10: Des. 143,364 | D49— 1: | Des. 143,270 | | 8: Des. 143,296 |
| | 26: Des. 143,268 | | 14: Des. 143,290 | D45— 4: | Des. 143,317 | | 6: Des. 143,298 | | 25: Des. 143,379 |
| | Des. 143,303 | | Des. 143,312 | | Des. 143,328 | | Des. 143,299 | | 26: Des. 143,289 |
| | Des. 143,304 | D34— 5: | Des. 143,261 | | 9: Des. 143,338 | D50— 8: | Des. 143,271 | D62— 2: | Des. 143,359 |
| | Des. 143,305 | | 15: Des. 143,272 | | Des. 143,339 | D52— 2: | Des. 143,259 | D66— 1: | Des. 143,322 |
| D14— 3: | Des. 143,329 | | Des. 143,273 | | 10: Des. 143,397 | | Des. 143,319 | | Des. 143,323 |
| | Des. 143,353 | | Des. 143,274 | | Des. 143,374 | D54— 1: | Des. 143,341 | | Des. 143,324 |
| | Des. 143,365 | | Des. 143,275 | | 16: Des. 143,349 | | 9: Des. 143,373 | D71— 1: | Des. 143,313 |
| D20— 4: | Des. 143,331 | | Des. 143,276 | | 19: Des. 143,318 | | 13: Des. 143,302 | | Des. 143,351 |
| D22— 2: | Des. 143,327 | | Des. 143,277 | | Des. 143,337 | D55— 1: | Des. 143,260 | D80— 5: | Des. 143,375 |
| | 3: Des. 143,326 | | Des. 143,278 | D46— 1: | Des. 143,258 | | Des. 143,346 | | 9: Des. 143,320 |
| D23— 1: | Des. 143,369 | | Des. 143,279 | D48—16: | Des. 143,336 | | Des. 143,367 | | Des. 143,333 |
| D26— 5: | Des. 143,316 | | Des. 143,285 | | Des. 143,355 | | Des. 143,368 | D81—10: | Des. 143,360 |
| | Des. 143,340 | | Des. 143,294 | | Des. 143,356 | | Des. 143,370 | | Des. 143,372 |
| | 6: Des. 143,361 | | Des. 143,315 | | 23: Des. 143,370 | D56— 4: | Des. 143,334 | D83— 1: | Des. 143,264 |
| | Des. 143,362 | | Des. 143,332 | | 24: Des. 143,357 | | Des. 143,335 | | Des. 143,378 |
| | 13: Des. 143,290 | D37— 1: | Des. 143,293 | | Des. 143,358 | | Des. 143,363 | D85— 2: | Des. 143,267 |
| | Des. 143,308 | D44— 1: | Des. 143,263 | | 27: Des. 143,295 | | Des. 143,376 | | Des. 143,269 |
| | Des. 143,309 | | Des. 143,291 | | Des. 143,342 | D58— 4: | Des. 143,281 | | Des. 143,300 |
| D33— 6: | Des. 143,354 | | Des. 143,292 | | Des. 143,377 | | Des. 143,282 | | Des. 143,325 |
| | | | | | | | | | |
| D85— 2: | Des. 143,252 | | | | | | | | |
| | 8: Des. 143,257 | | | | | | | | |
| | Des. 143,371 | | | | | | | | |
| D86—10: | Des. 143,262 | | | | | | | | |
| | Des. 143,311 | | | | | | | | |
| | Des. 143,314 | | | | | | | | |
| | Des. 143,330 | | | | | | | | |
| | Des. 143,380 | | | | | | | | |
| D91— 3: | Des. 143,287 | | | | | | | | |
| | Des. 143,288 | | | | | | | | |
| | Des. 143,382 | | | | | | | | |
| | Des. 143,383 | | | | | | | | |
| | Des. 143,384 | | | | | | | | |
| | Des. 143,385 | | | | | | | | |
| D92— 1: | Des. 143,343 | | | | | | | | |
| | Des. 143,344 | | | | | | | | |
| | Des. 143,345 | | | | | | | | |
| | Des. 143,346 | | | | | | | | |
| | Des. 143,347 | | | | | | | | |

U. S. GOVERNMENT PRINTING OFFICE: 1945

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

IN RE NORMANN ET AL.

*No. 5,016. Decided July 3, 1945*

[150 F.(2d) 708; 66 USPQ 308]

1. PATENTABILITY—COMMERCIAL SUCCESS.

"Although commercial success may be persuasive in doubtful cases, it is well settled that where it is evident that claims do not define patentable subject matter commercial success is immaterial."

2. SAME—REJECTION BASED ON INTERFERENCE.

The appealed claims *Held* properly rejected as unpatentable over the counts of an interference which appellants lost.

APPEAL from the Patent Office. Affirmed.

*Messrs. Hammond & Littell* (*Mr. Francis G. Cole, Mr. Nelson Littell* and *Mr. Charles P. Pollard* of counsel) for Normann et al.

*Mr. W. W. Cochran* for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 1, 2, 7, 14 to 17, inclusive, 20, 25, and 27) in appellants' application for a patent for an alleged invention relating to the production of higher aliphatic alcohols.

Claims 1, 2, 17, 20, and 27 are sufficiently illustrative of the appealed claims. They read:

1. The process of preparing alcohols comprising reducing a fresh higher aliphatic carboxylic acid having more than five carbon atoms by subjecting the same to hydrogenation.

2. The process of preparing alcohols comprising hydrogenating a freshly prepared higher aliphatic carboxylic acid having more than five carbon atoms at such elevated temperature and pressure as will produce substantially only alcohols.

17. The process comprising subjecting a substantially pure aliphatic carboxylic acid having more than 5 carbon atoms at a high temperature and a high pressure capable of reducing carboxylic groups in the presence of hydrogen and a hydrogenating catalyst thereby producing a higher aliphatic alcohol.

20. The process comprising subjecting a fresh coconut oil fatty acid to a temperature of about 310° C. to 325° C. at a pressure of about 260 atmospheres in the presence of a copper catalyst and of hydrogen.

27. The process of preparing alcohols which comprises subjecting a fresh higher aliphatic carboxylic acid containing between 8 and 18 carbon atoms to a high temperature and pressure adapted to reduce acids to alcohols in the presence of hydrogen and a catalyst essentially comprising metallic copper until reduction of the acid to alcohol has taken place.

The appealed claims were rejected by the tribunals of the Patent Office as being unpatentable over the counts in issue in an interference (No. 72,838) between appellants and one Schmidt—*Normann et al.* v. *Schmidt et al.*, 29 C. C. P. A. (Patents) 822, 125 F.(2d) 162, 52 USPQ 342, 539 O. G. 739—in which appellants were the losing parties.

The counts of the interference related to the production of higher aliphatic alcohols. Of the counts there involved, Nos. 2 and 4 are sufficiently illustrative. They read:

Count 2. The process of preparing alcohols which comprises subjecting a higher aliphatic carboxylic acid containing at least 8 carbon atoms to a high temperature and pressure adapted to reduce acids to alcohols in the presence of hydrogen and a catalyst essentially comprising metallic copper until reduction of the acid to alcohol has taken place.

Count 4. The process of preparing alcohols which comprises subjecting a higher aliphatic carboxylic acid containing between 8 and 18 carbon atoms to a high temperature and pressure adapted to reduce acids to alcohols in the presence of hydrogen and a catalyst essentially comprising metallic copper until reduction of the acid to alcohol has taken place.

It will be observed that the claims here on appeal are limited to a process of preparing alcohols by hydrogenating "*fresh* higher aliphatic carboxylic acid having more than five carbon atoms" (as stated in claim 1), "hydrogenating a *freshly prepared* higher aliphatic carboxylic acid" (as stated in claim 2), hydrogenating a "substantially pure aliphatic carboxylic acid" (as stated in claim 17), hydrogenating "fresh coconut oil fatty acid" by subjecting it "to a temperature of about 310° C. to 325° C. at a pressure of about 260 atmospheres" (as stated in claim 20), and hydrogenating "*fresh* higher aliphatic carboxylic acid containing between 8 and 18 carbon atoms" (as stated in claim 27), whereas, counts 2 and 4 of the interference are somewhat broader in that they *are not limited to fresh or freshly prepared* higher aliphatic carboxylic acids, nor are any of the counts of the interference limited to hydrogenation at any specific temperature or pressure, as called for by appealed claim 20. [Italics supplied.] Appealed claim 7 also contains limitations as to temperature and pressure.

It appears from the record that the Primary Examiner was originally of opinion that only such claims in appellants' application as called for hydrogenation of fresh or freshly prepared carboxylic acid were patentable, and that broader claims which correspond to the counts of the interference were not patentable.

The Board of Appeals was of opinion, however, that the broader claims in appellants' application were patentable and, in so holding, stated, inter alia:

After careful consideration of the record it appears to us that applicants do not state that treatment of impure acids would be technically wholly inoperative but that it is rather a matter of degree or practicable commercial practice because of the impurities rendering the catalytic agent ineffective after a time. We consider that it appears from applicants' specification that there is no highly critical line of demarcation between treating pure acids and acids having a small percentage of impurities and that no sharp line of demarcation as to temperatures and pressures apply.

Thereafter, the interference, involving only the broader claims, was declared by the Primary Examiner.

The principal issue to be decided here is whether the use of fresh acid in the claimed process involves invention over the counts of the interference, which counts, as hereinbefore noted, call for the use of acid broadly.

There is no evidence of record which would support a holding that the claimed process is inoperative if the acid used is not fresh. On the contrary,

in their remarks accompanying an amendment presenting claims which did not specify that the acid was pure or fresh, counsel for appellants stated, among other things:

> As a matter of fact the applicants have carried out the process of the present invention using aged acids and have produced a small percentage of alcohols by such procedure, but the yield is not sufficient to make the process commercially successful. • • • When aged products are present, the quantity of conversion is greatly reduced but the applicants' claims, by authority of a number of decisions, should not be limited to the best or the most satisfactory conditions by which his process may be operated.

Although Schmidt, the successful party in the interference, did not specifically suggest in his application the desirability of using fresh acid, counsel for appellants did not contend, in the interference proceeding, that Schmidt's disclosure was inoperative.

Under the related circumstances, we are unable to concur in the views urged upon us by counsel for appellants that the Patent Office tribunals erred in holding that the distinction between claims reciting the use of acid broadly and claims reciting the use of fresh or pure acid is one of degree only.

[1] It may be, as contended by counsel for appellants, that the use of aged acid is not commercially practicable. However, it does not follow that the use of fresh acid rather than aged acid involves a difference in kind rather than in degree so far as the results obtained are concerned. Although commercial success may be persuasive in doubtful cases, it is well settled that where it is evident that claims do not define patentable subject matter commercial success is immaterial. See *In re Earl Ackenbach*, 18 C. C. P. A. (Patents) 769, 45 F.(2d) 437, 7 USPQ 268, 403 O. G. 789; *In re Day*, 28 C. C. P. A. (Patents) 1002, 118 F.(2d) 352, 49 USPQ 72, 527 O. G. 848; *In re Jannell*, 28 C. C. P. A. (Patents) 1262, 120 F.(2d) 1012, 50 USPQ 51, 533 O. G. 517.

[2] The counts in issue in the interference proceeding were not limited to the use of aged acid or acid containing undesirable aged products in the production of higher aliphatic alcohols, and, as the party Schmidt was held to be the prior inventor of the use of acid broadly, we are of opinion that appellants' discovery that the use of acid which is fresh, or freshly prepared, or substantially pure produces better results than the use of acid which is not strictly fresh, or not freshly prepared, or not substantially pure does not involve invention.

Counsel for appellants stress the fact that the Examiner originally allowed claims limited to the use of fresh acid, and argue that the use of such acid is the essential feature of the invention. It should be noted, however, that, after the Board of Appeals held on appellants' first appeal that there was "no highly critical line of demarcation" between the results obtained by the use of pure acids and acids having a small percentage of impurities and after the decision in the interference proceeding, the Primary Examiner held, and properly so we think, that the limitations in the appealed claims as to "freshness" or "purity" of the acid did not lend patentability to such claims over the counts in the interference.

Appealed claim 20, which is representative of claim 7, specifies particular conditions of temperature and pressure. There is nothing of record to show that those conditions are in any way critical. On the contrary, in support of the amendment hereinbefore referred to, counsel for appellants stated, among other things, that—

> The applicants did not insert any broad ranges of temperature and pressure originally for the following reasons. Having given a specific example, it is within the ability of any chemist skilled in hydrogenation reactions to understand the invention and also to determine the operable ranges of temperature and pressure.

We are of opinion, therefore, that the limitations as to conditions of temperature and pressure in appealed claims 7 and 20 do not lend patentability to those claims.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

---

## U. S. Court of Customs and Patent Appeals

IN RE CORNELL ET AL.

*No. 5,105. Decided July 3, 1945*

[150 F.(2d) 702; 66 USPQ 320]

1. REISSUE—ESTOPPEL.

   "Having thus deliberately withdrawn all claims to the measuring apparatus per se, in response to the Examiner's requirement for division, appellants cannot now successfully contend that their failure to include claims in their patent to the measuring apparatus per se was due to inadvertence, accident, or mistake. We held, therefore, that appellants are not entitled to obtain, by reissue, claims, regardless of scope, which are limited to the liquid measuring apparatus per se, and which they conceded by their acquiescence in the requirement for division they were not entitled to claim in their patent."

2. INTERFERENCE—DECLARATION.

   "Rule 94 of the Rules of Practice in the United States Patent Office provides for the inclusion of original or reissue applications in an interference only when the claims involved are allowable in such applications. Accordingly, the Primary Examiner would have been manifestly wrong had he added appellants' reissue application to the pending interference without first determining whether or not the appealed claims were allowable in that application. Having determined that the appealed claims were not allowable in appellants' reissue application, the Examiner properly refused to add the involved application to the interference."

APPEAL from the Patent Office. Affirmed.

*Messrs. Strauch & Hoffman* (*Mr. James A. Hoffman* and *Mr. William A. Strauch* of counsel) for Cornell et al.

*Mr. W. W. Cochran* (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 22 and 25 to 32, inclusive, in appellants' application (filed January 29, 1943) for the reissue of their patent (No. 2,302,529, issued November 17, 1942) for an invention relating to "a repeating valve shut-off system."



Claim 22 is sufficiently illustrative of the appealed claims. It reads:

> 22. In a liquid dispensing apparatus of the class described comprising in combination a displacement mechanism, a register, and a speed change mechanism connected to be continually driven by said displacement mechanism and connected to continually drive said register, thermostatic means for adjusting said speed change mechanism to compensate for the expanded or contracted condition due to the temperature of the liquid being measured and manually settable means for adjusting the speed of said mechanism in accordance with the coefficient of expansion of said liquid.

Appellants disclose in their reissue application a "repeating valve shut-off system" which is especially adapted for the measured filling of large containers with liquid, such as lubricating oil. The system comprises a pump which receives the liquid to be measured from a main storage tank and forces it through a liquid measuring apparatus or meter and a shut-off valve to the container to be filled. Provision is made for modifying the action of the liquid measuring apparatus or meter in accordance with the temperature of the liquid being measured, so that the measurement will be accurate regardless of the temperature of the liquid.

Appellants also disclose in their involved application a modified device which may be adjusted for measuring liquids having different coefficients of expansion. However, the details of that device are not material here.

The claims on appeal are drawn to a liquid measuring apparatus or meter per se, and do not include means for shutting off the flow of liquid.

In rejecting the appealed claims, the tribunals of the Patent Office stated that, during the prosecution of their original application, appellants deliberately elected to prosecute claims to the combination of a liquid measuring apparatus and a shut-off apparatus, and not to prosecute claims to the measuring apparatus per se, and that, therefore, their failure to obtain claims in their patent to the measuring device per se was not due to inadvertence, accident, or mistake, but rather was the result of deliberate action by them.

Appellants' original application, as filed, contained twenty-five claims, the first twenty-three of which included, in terms of varying scope, the combination of the liquid measuring apparatus and the shut-off or trip mechanism by which the flow of liquid is shut off. Some of those twenty-three claims included the modification by which adjustment might be made for liquids of different coefficients of expansion, while others did not. The two remaining claims (Nos. 24 and 25), which were limited to the modification which permits adjustment in accordance with the coefficient of expansion of the liquid being measured, did not include the shut-off or trip mechanism but were directly solely to a liquid measuring apparatus, as distinguished from the combination of the liquid measuring apparatus and the shut-off mechanism.

Claim 24 is illustrative of the cancelled claims. It reads:

> 24. A temperature compensated fluid measuring system comprising a displacement meter terminating in a meter shaft, a driven shaft, means rotatably connecting said meter shaft to said driven shaft, said means including a train of gears meshing with one another and bodily rotated with the shafts, a ratchet wheel secured to one of the gears, a pawl for intermittently moving the ratchet wheel, an oscillatable arm for moving the pawl, a ring movably mounted about the shafts, said oscillatable arm being oscillated by the ring during each rotation of the shafts, temperature responsive means immersed in the fluid being measured and being mechanically connected to the ring for changing the position of the ring in response to change in temperature, and means including a pointer and scale to so change the connection between the temperature responsive means and the member as to adjust the amount of temperature compensation produced by the temperature responsive means.

In his first action on the original application, the Primary Examiner required division between the combination claims and the claims directed to the measuring apparatus per se, stating that—

> The claims in this application are drawn to two distinct and independent inventions. Thus:
> I. Claims 1 to 23, inclusive, cover apparatus for dispensing predetermined quantities and would be classifiable in Class 221 in Div. 35 • • •.
> II. Claims 24 and 25 cover a temperature compensated fluid meter and would be classifiable in Class 73, Sub. 233 in Div. 36 • • •.
> Division between these groups is required in accordance with rule 42, Rules of Practice. Applicant must limit his claims to a single invention.
> • • • • • • •
> While claims 24 and 25 may cover a subcombination of some of the claims of Group I, yet division is still proper. It is apparent that the device defined in claims 24 and 25 is of general application and is useful, for instance, in operating a register or recorder to give an indication of the volume flow of fluid corrected for temperature variations. In other words, the device defined in claims 24 and 25 has substantial and practical uses independent of the general combination defined in the claims of Group I.

Appellants responded to that action of the Examiner as follows:

> In response to the requirement for division in the Office action of March 29, 1939, applicants herewith elect the claims of Group I, that is, claims 1 to 23, inclusive.
> Claims 24 and 25 are temporarily retained, pending decision as to the advisability of filing a divisional application.
> An action on the merits of the elected claims is respectfully requested.

Thereafter, claims 24 and 25 were rejected by the Examiner on the ground "of misjoinder of inventions."

In response to that action of the Examiner, appellants stated that "Claims 24 and 25 are retained, pending the filing of a divisional application." Thereafter, the Examiner stated that claims 24 and 25 are rejected "on grounds of estoppel as of record." Whereupon, appellants cancelled those claims and their patent eventually issued with claims to the combination of the shut-off or trip mechanism and the liquid measuring apparatus, there being no claims to the liquid measuring device per se.

It is evident from the record that the Examiner's requirement for division was based on the theory that claims limited to the liquid measuring apparatus per se and claims directed to the combination of the measuring apparatus and the shut-off or trip mechanism were for two different inventions. The record also clearly discloses that appellants did not, at any time prior to the issuance of their patent, dispute the correctness of the Examiner's requirement for division, but, on the contrary, acquiesced therein, and elected to prosecute claims directed to the combination of the liquid measuring apparatus and the shut-off or trip mechanism.

[1] Having thus deliberately withdrawn all claims to the measuring apparatus per se, in re-

sponse to the Examiner's requirement for division, appellants cannot now successfully contend that their failure to include claims in their patent to the measuring apparatus per se was due to inadvertence, accident, or mistake. We hold, therefore, that appellants are not entitled to obtain, by reissue, claims, regardless of scope, which are limited to the liquid measuring apparatus per se, and which they conceded by their acquiescence in the requirement for division they were not entitled to claim in their patent. *In re Smyser, Deceased, Etc.*, 30 C. C. P. A. (Patents) 1093, 135 F.(2d) 747, 57 USPQ 402, 555 O. G. 3.

Counsel for appellants argue that "The appealed claims much more closely approximate claim 19 of the orginial patent than cancelled claims 24 or 25 of the original application."

Whether or not that statement of counsel is correct is not of vital consequence here.

Claims 19 and 20 in appellants' patent are drawn to the combination of the shut-off or trip mechanism and the liquid measuring apparatus, which combination appellants elected to claim in their original application. The claims here on appeal are not drawn to the combination of the shut-off mechanism and the liquid measuring apparatus, but are limited to the liquid measuring apparatus per se.

The requirement for division was not, as argued by counsel for appellants, based on the fact that claims 24 and 25 called for liquid measuring apparatus in more detail than some of the claims of the patent, but rather was based on the fact that those claims called for the liquid measuring apparatus per se, and did not include that apparatus in combination with the shut-off or trip mechanism as do the claims of the patent.

Counsel for appellants further contend that since certain of the appealed claims were involved in a pending interference at the time appellants presented them in their reissue application, the Primary Examiner should have added the reissue application to the interference and reserved the question of appellants' right to the allowance of such claims in their reissue application for subsequent determination.

[2] Rule 94 of the Rules of Practice in the United States Patent Office provides for the inclusion of original or reissue applications in an interference only when the claims involved are allowable in such applications. Accordingly, the Primary Examiner would have been manifestly wrong had he added appellants' reissue application to the pending interference without first determining whether or not the appealed claims were allowable in that application. Having determined that the appealed claims were not allowable in appellants' reissue application, the Examiner properly refused to add the involved application to the interference. See *Emmet* v. *Fullagar*, 1907 C. D. 322.

We have carefully considered all of the contentions made here by counsel for appellants but are of opinion, for the reasons hereinbefore stated, that appellants are not entitled to the allowance of the appealed claims in their reissue application.

The decision of the Board of Appeals is affirmed.

Affirmed.

## U. S. Court of Customs and Patent Appeals

IN RE SMITH

*No. 4,997. Decided July 3, 1945*

[150 F.(2d) 700; 66 USPQ 306]

1. APPEAL—REASONS OF APPEAL.
"Claim 19 was rejected by the Examiner, among other reasons, on the ground of indefiniteness; and the Board affirmed the action of the Examiner without specific mention of that ground. Since this ground of rejection is not challenged by appellant in his reasons of appeal, it follows that the decision of the Board as to claim 19 may not be considered by the court."

2. PATENTABILITY—COIN HOLDER.
Certain claims to a coin holder *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

*Mr. Donald L. Brown* (*Mr. Charles Mikulka* of counsel) for Smith.

*Mr. W. W. Cochran* (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

The Board of Appeals of the United States Patent Office allowed claims 1 and 4 in appellant's application for a patent relative to a device designed to be used as a coin holder and affirmed the action of the Primary Examiner in rejecting such of the remaining twenty claims in appellant's application as were presented to the Board for review. From that part of the Board's decision which affirmed the rejection of claims 3, 8, 10, and 19, this appeal is brought.

[1] Before considering the merits of the claims, it is necessary to point out that claim 19 was rejected by the Examiner, among other reasons, on the ground of indefiniteness; and the Board affirmed the action of the Examiner without specific mention of that ground. Since this ground of rejection is not challenged by appellant in his reasons of appeal, it follows that the decision of the Board as to claim 19 may not be considered by the court. See *In re Boyce*, 32 C. C. P. A. (Patents) —, 144 F.(2d) 896, 63 USPQ 80, 568 O. G. 568.

The remaining three claims left for decision read as follows:

3. A device for receiving, retaining and relinquishing coins having a predetermined dimension, said device comprising a trough-shaped element open at least at one end, said open end being at all times exposed, the material of said element being resilient and the side portions of said element forming flanges, at a distance from each other slightly less than said dimension, each of said flanges being integral with the floor of said element and bent as a whole into a curl having its surface convex toward the curl of the opposite flange, whereby said coins may be inserted from the open face of said element, and may be resiliently retained by and between said curls, and may be slid endwise for removal, the floor of said element being arcuate at least in part, whereby force on the back of said element toward a retained coin releases the pressure between said curls and the retained coin.

8. A coin holder, open at least at one end, having an arcuate back, and nipping edges, to form a trough in which coins may be inserted and thereupon held by a nipping grip of and between said edges, and from which trough the coins may be slid endwise of said device for removal, the removal being capable of being eased by pressure as from thumb and finger front and back of the coin and holder the removal of each succeeding coin being through positions held by previously removed coins.

10. A coin holder, open at least at one end, having an arcuate back, and nipping edges, to form a trough in which coins may be inserted and thereupon held by a nipping grip of and between said edges, and from which trough the coins may be slid endwise for removal, the removal being capable of being eased by pressure as from thumb and finger front and back of the coin and holder, and means for attaching to a support.

The references are: Holmes, 202,545, April 16, 1878; Barnes, 1,969,642, December 19, 1933; Kindermann (British), 14,306, June 29, 1916; Jakobsen (Swedish), 81,714, August 16, 1934.

The appealed claims define a coin holder made of resilient material and comprising an elongated strip having a substantially curved shape cross-section joined to parallel walls, the edges of which are rolled or beaded over towards each other with the distance between them slightly less than the diameter of the coin to be held, thus forming a shallow device with an arcuate floor. The coins are placed in the device in an edge-to-edge relation and are held in place by the pressure exercised upon them by the beaded edges of the walls. The application of pressure at the back of the arcuate floor will extend the distance between the opposite flanges or beaded edges of the opposite walls of the device and the pressure on the coin is thus lessened so that the coin may be moved.

The patent to Holmes describes an improvement in coin holding, counting, and delivering devices consisting among other things of an elongated tube of metal or other elastic material, made elliptical in cross-section, or arcuate, and having an opening in one end for the insertion of the coins, and an opening extending continuously along one side, through which the edges of the coins are exposed for the purpose of handling. The tube is made of such size in its smaller diameter as to clasp and hold the coins after insertion with a sufficient degree of friction to prevent the coins from being accidentally shifted or removed while at the same time, owing to the elasticity of the walls, the tube may be compressed in the direction of its largest diameter so as to admit of the insertion of the coins or their ready removal from the tube.

Appellant contends that the Board of Appeals erred in holding that the flat ledge shown in the device defined in the allowed claims was the only novel feature disclosed in his application for a patent and urges that the attaching means defined in the appealed claims for gripping the coins constitutes patentable invention.

The only substantial difference between the patent to Holmes and the appealed claims is that Holmes does not describe the rolled edges. The patent to Jakobsen defines such an edge in a clamp provided with two elastic lobes or projections with inwardly rolled collars, which collars serve to exert pressure on a wire to grip and hold it in position. No invention would be involved in modifying the structure defined in the Holmes patent by adding thereto the rolled edges disclosed in the patent to Jakobsen. That is what appellant has done.

Appellant contends further that Holmes discloses a structure radically different from that defined in the appealed claims inasmuch as the coins in Holmes are held face to face with adjacent coins while in appellant's disclosure the coins are held in edge-to-edge position so that they may be slid endwise for removal from the open end of the device.

It is true, as pointed out by the Examiner, that: these rejected claims read on structure as in Holmes where coins are held with their faces in contact with adjacent coins and are not restricted to structure which holds the coins with their peripheries contacting adjacent coins. • • • The depth of the coin channel is not limited to holding coins with their peripheries in contact but may be of sufficient depth to hold coins with their faces in contact.

Moreover, the statement that the coins are positioned edge-to-edge and that they may be slid endwise through the trough does not make appellant's device patentably different from Holmes.

Since the remainder of the references are only cumulative, it is unnecessary to discuss them.

[2] For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.



## Disclaimers

2,277,365.—*Oscar Stewart Michael*, Foxboro, Mass. MEASURING APPARATUS. Patent dated Mar. 24, 1942. Disclaimer filed Nov. 29, 1945, by the assignee, *The Foxboro Company*.

Hereby enters this disclaimer to claims 7, 8, 9, and 10 of said patent.

2,325,432.—*Waldo P. Simpson*, Lansdowne, and *Clyde E. Stewart*, Upper Darby, Pa. CONTROL SYSTEM. Patent dated July 27, 1943. Disclaimer filed Nov. 14, 1945, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1 and 2 in said patent.

## Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,392,629, 1,543,832, C. P. Dubbs, Process of converting hydrocarbons; 1,543,831, same, Apparatus for treating hydrocarbon oils; 1,764,296, R. Fleming, Method and apparatus for treating hydrocarbons, D. C. Del., Doc. E 893, *Universal Oil Products Co.* v. *Winkler-Koch Engineering Co. et al.* Dismissed Sept. 19, 1944.

1,543,831. (See 1,392,629.) 1,543,832. (See 1,392,629.)

1,645,643. (See Re. 21,550.)

1,721,815, L. Gerstenzang, Process and apparatus for manufacturing medical swabs; 1,921,604, Bunnell & Barnes, Apparatus for manufacturing medical swabs, D. C. N. J., Doc. 3486, *Q-Tips, Inc.*, v. *Swab Mfg. Corp. et al.* Consent decree for injunction Oct. 19, 1945.

1,764,296. (See 1,392,629.)

1,835,883, J. M. Lewis, Helmet, filed Nov. 2, 1945, D. C., E. D. Mich., S. Div., Doc. 5340, *Mine Safety Appliance Co.* v. *Paramount Rubber Co.*

1,844,142, A. E. Barili, Stuffed pastry machine, filed Sept. 27, 1945, D. C., N. D. Calif., S. Div., Doc. 25167–S, *A. E. Barili* v. *Riviera Packing Co. et al.* Claim 4 held infringed Oct. 24, 1945.

1,921,604. (See 1,721,815.)

1,957,335. L. W. Haas, Bleaching agent for flour dough for white bread; Re. 19,712, same, Bleaching agent and process of preparing bleached bread dough; Re. 22,227, Haas & Bohn, Bleaching agent and process of utilizing the same for bleaching flour, filed Oct. 17, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1750, *Dietetic Flour Mills, Inc.*, v. *J. R. Short Milling Co.*

2,063,542, C. Ellis, Diene resin, filed Nov. 7, 1945, D. C. N. J., Doc. 6814, *Ellis-Foster Co.* v. *Reichhold Chemicals, Inc.*

2,082,730. (See 2,258,573.)

2,146,808, G. C. Flint, Vaporizer, filed Oct. 15, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1736, *G. C. Flint* v. *Paasche Airbrush Co.*

2,200,532, V. S. Bond, Bacterial inoculant for leguminous plants, D. C., S. D. Ill., S. Div., Doc. q–62, *Kalo Inoculant Co.* v. *Funk Bros. Seed Co.* Dismissed on merits for want of equity Oct. 10, 1945.

2,208,362, W. F. Engel, Isomerization of hydrocarbons; 2,281,924, DeSimo & McMillan, Executing reactions with the aid of fugitive catalysts; 2,311,713, Thomas & McMillan, Catalyst and process for the preparation thereof, filed Oct. 23, 1945, D. C. Del., Doc. 749, *Phillips Petroleum Co.* v. *Shell Development Co.*

2,215,988, Vivaudou & Lubin, Covered sachet ball, filed Oct. 20, 1945, D. C., S. D. N. Y., Doc. 33/376, *Pomerson Products et al.* v. *Jean Vivaudou Co., Inc., et al.*

2,239,274, L. C. Safir, Robe, filed Oct. 24, 1945, D. C., S. D. N. Y., Doc. 33/393, *Rabhor Co., Inc.*, v. *Royal Robes, Inc.*

2,256,645, F. Kuhlman, Decorative material, D. C., S. D. N. Y., Doc. 27/359, *R. Appel* v. *A. H. Lilling.* Stipulation discontinuing action Oct. 23, 1945.

2,258,573, A. A. Johnson, Manifolding pack; 2,082,730, C. W. Brenn, Manifolding device, filed Aug. 27, 1945, D. C. Ohio (Dayton), Doc. 522, *Autographic Register Co.* v. *The Egry Register Co.*

2,281,924. (See 2,208,362.)

2,300,157, G. R. Hunt, Feather-picking apparatus for fowls, filed Oct. 9, 1945, D. C., S. D. Ohio, W. Div., Doc. 544, *C. B. Mueller et al.* v. *Superior Mfg. Co.* Same, filed Oct. 22, 1945, D. C., N. D. Iowa (Dubuque), Doc. 254, *G. R. Hunt et al.* v. *Farmers Produce Co.*

2,301,571. (See Re. 21,550.)

2,311,713. (See 2,208,362.)

2,352,480. (See Re. 21,550.)

2,352,481. (See Re. 21,550.)

2,367,302, Moore & Kirchmeyer, Bisulphite derivatives of 2-methyl-1,4-naphthoquinone and the like, filed Oct 26, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1812, *Abbott Laboratories* v. *M. G. Farnsworth.*

2,369,275, E. J. Biel, Method of making visors for uniform caps, filed Oct. 29, 1945, D. C., S. D. N. Y., Doc. 33/478, *E. J. Biel* v. *Astercraft Products.*

2,386,590, V. Calhoun, Catamenial device, filed Oct. 27, 1945, D. C., E. D. Mo. (St. Louis), Doc. 4047, *V. Calhoun et al* v. *Gasen Drug Stores, Inc.*

Re. 19,712. (See 1,957,335.)

Re. 21,550, L. A. Hyland, Shielded spark plug; 2,352,480, same, Spark plug; 2,352,481, same, Spark plug structure; 1,645,643, L. H. Crook, Non-grounded transmission line; 2,301,571, E. B. Nowosielski, Electrical apparatus, suit for declaratory judgment filed Oct. 30, 1945, D. C. Del., Doc. 755, *L. H. Crook et al.* v. *Bendix Aviation Corp.*

Re. 22,227. (See 1,957,335.)

Des. 136,181, H. J. Meyer, Rocking horse, D. C. Tenn. (Memphis), Doc. 788, *Victory Wood Products Co. et al* v. *Associated Woodworking Industries et al.* Patent held valid, cause dismissed Sept. 21, 1945.

Des. 137,073, E. J. Brumder, Gardenia mount, D. C., S. D. Calif., C. Div., Doc. 4459–H, *W. A. Rojahn* v. *P. Mallet et al.* Injunction enjoining P. Mallet and H. Goldberger; dismissed as to Underwriters Salvage Co. Sept. 19, 1945.

Des. 138,992, C. Daum, Wall shelf, D. C., S. D. N. Y., Doc. 28/378, *Rabkin Bros.* v. *Handy Andy Specialties Co., Inc., et al.* Stipulation and order of discontinuance Oct. 23, 1945.

T. M. 169,950, M. J. Merkin Paint Co., Inc., Paints, filed Nov. 5, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1898, *M. J. Merkin Paint Co., Inc.*, v. *Cello-Nu Products et al.*

T. M. 380,382, Babs Creations, Inc., Perfumes, face powder, lipsticks, etc., D. C., N. D. Ill., E. Div., Doc. 45c1415, *Babs Creations* v. *Kay Daumit et al.* Cause dismissed with prejudice Oct. 11, 1945.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

*(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)*

**The patents which are owned by Radio Corporation of America have been entered, in accordance with the rules of the United States Patent Office applicable to such entry which are in effect on the date hereof, on the Register of Patents Available for Licensing.**

**These patents are available for licensing for the following apparatus or purposes, among others, (a) radio broadcast receiving sets (including television), (b) electrical phonographs, (c) radio broadcast transmitting apparatus and certain other transmitting and receiving apparatus for commercial use, (d) radio tubes of the type used in radio receiving apparatus, (e) radio tubes of the type used in radio transmitting apparatus, and (f) sound-motion picture apparatus, including 16 mm. recording and reproducing apparatus. Licenses will be granted under the terms and conditions of standard license agreements of Radio Corporation of America presently in effect, copies of which may be obtained from Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N. Y., or under the terms and conditions of revisions of such standard license agreements. Where no standard license agreement is in effect, licenses will be granted on reasonable terms. In addition to the patents owned by Radio Corporation of America, such standard license agreements grant licenses under all other patents under which Radio Corporation of America has the right to grant licenses for the apparatus therein licensed, under the conditions, to the extent and for the term in respect of which Radio Corporation of America can grant such licenses. Included in this latter category are patents of General Electric Company, Westinghouse Electric Corporation, American Telephone and Telegraph Company and N. V. Philips' Gloeilampenfabrieken in the field of radio broadcast receiving sets, and patents of one or more of such companies in other fields.**

Pat. 2,233,255. STEP-EXPOSING MACHINE FOR PHOTO-SENSITIVE MATERIALS. Patented Feb. 25, 1941. Photographic machine for exposing and testing films, plates, papers, etc., useful in the production of photographic wedges and scales. Portable, light weight, and adjustable. (Owner) Philip A. Frjedell, 1629 Telegraph Ave., Oakland, Calif. Group 39—12. Reg. No. 750.

Pat. 2,340,195. AIRPLANE CONSTRUCTION. Patented Jan. 25, 1944. Bridge, provided with openings, is placed between end of fuselage and windshield to receive air from forward air scoop; reduces air resistance and provides convenient means for supplying air for various purposes. (Owner) George A. Maag, University Club, 1135 16th St., N. W., Washington, D. C. Groups 37—21—22. Reg. No. 751.



Pat. 1,912,568. ELECTRIC HEATER AND STOVE. Patented June 6, 1933. Casing has an arrangement of openings, dampers, and slides which may be manipulated to confine the heat within the casing so that food may be cooked or heated therein or hot air deflected into a room for heating purposes. A door provides access to interior so that heating unit, pan-shaped tray and perforated shelves may be removed. A water tank serves as a humidifier and, if desired, may be used for brewing tea. (Owner) Nicholas V. Di Lorenzo, Route 1, Chatham, N. Y. Group 36—21. Reg. 752.

Pat. 2,230,165. FAN ATTACHMENT FOR LAND VEHICLES. Patented Jan. 28, 1941. Attached to axle housing and adapted to be driven by any ground wheel. Has laterally spaced projecting arms with bearings at their free ends into which one end of shaft is journaled. Fan is detachably fastened to opposite end. Sections are telescoped and adjustable. (Owner) William Preston Prock, % Claude England, Lindsay, Okla. Groups 33—73; 35—21—22—42—64. Reg. No. 753.

Pat. 2,205,043. IRON OXIDE BRIQUETTE. Patented June 18, 1940. Produced by mixing comminuted iron oxides with a solution of diluted water-glass and a finely crushed calcareous material, such as limestone or dolomite; used in oxidizing or decarburizing molten metal in furnaces. Methods and quantities given in patent. (Co-owner) Ralph H. Steinberg, 836 W. 71st St., Chicago 21, Ill. Groups 28—99; 29—91. Reg. No. 754.

Pat. 2,281,985. EGG FORK AND OPENER. Patented May 5, 1942. Handle has spring members with U-shaped resilient jaws, having bight portions; end of jaws are arcuately curved and serrated for tightly gripping and holding an egg. Arm portions of jaws used for cutting shell. (Owner) Francis E. Morgan, Box 866, Osburn, Idaho. Groups 33—59—71—73; 34—41; 39—81. Reg. No. 755.

Pat. 2,188,950. SNAP FASTENER. Patented Feb. 6, 1940. Cap with spring inside and plurality of openings on sides into which part of ball-shaped locking members extend and abut against cone-shaped part of fastening member, automatically preventing disconnection. (Owner) Karl A. Mayr, 21 E. 40th St., New York 16, N. Y. Groups 30—41; 33—73; 39—81—99; 40. Reg. No. 756.

Pat. 2,322,811. BOLT. Patented June 29, 1943. Lower side of head has groove encircling shank, semi-circular in cross-section and encompassed by a land having same radius, forming seat without cutting into surface against which it presses and acts as an improved seal for retaining fluid pressures. (Owner) Roland W. Ball, Sheldon Rd., Berea, Ohio. Groups 33—12—59—73—91; 35—42; 40. Reg. No. 757.

Pat. 1,793,278. SPARK INDICATOR FOR INTERNAL-COMBUSTION ENGINES. Patented Feb. 17, 1931. Device comprises visible indicating means and electro-magnetic means energized by excess current emanating from spark plugs, although not directly connected thereto, for indicating proper functioning of ignition system of the motor when spark plugs are in operating condition. Should current fail to reach any particular plug it will be clearly indicated on dashboard. (Owner) Joseph Miller, 103–783, 354 Hunter St., Ossining, N. Y. Groups 36—41; 38—31. Reg. No. 758.

Pat. 2,382,738. DECORATIVE SWITCH MANIPULATOR. Patented Aug. 14, 1945. Device is mounted by springing resilient slide rails into the central opening of a conventional switch plate without special tools and without marring plate. Covers and manipulates switch button while presenting a decorative and attractive appearance. (Owner) Harry E. Mojses. Address all correspondence to Otto Munk, 41 Park Row, New York 7, N. Y. Groups 34—81; 36—19; 40. Reg. No. 759.

Pat. 2,381,021. AIRPLANE. Patented Aug. 7, 1945. Plane having a plurality of propellers mounted on front and back of each wing (10 on each wing) connected inside the wings to a series of parallel longitudinally extending crank shafts and connecting rods which in turn are connected to two main shafts for rotation of propellers in unison. The main shafts are positioned on each side of the wings and are connected to engines by chain and sprocket gearing. (Owner) Jacob C. Wood, Rt. 2, P. O. Box 7, Ragland, Ala. Groups 37—21—22. Reg. No. 760.

Pat. 2,020,154. RAZOR BLADE HOLDER. Patented Nov. 5, 1935. Holder having a split tube with flanges gripping the blade to give a rolling action on the strop or hone by turning the handle between the fingers and thumb thereby imparting a quick and smooth movement as each side of the blade is carried alternately into contact with strop or hone. Predetermined angle is maintained. (Owner) Joseph A. Misener, 1795 Byng Ave., Niagara Falls, Ontario, Can. Groups 31—99; 32—91; 33—51—73; 39—96. Reg. No. 761.

Pat. 2,214,860. BUTTER MOLD AND WRAPPER. Patented Sept. 17, 1940. A rectangular and transparent mold for home use that expells, cuts, and simultaneously provides a wrapper for butter or oleomargarine. Wires sprung into recesses divide butter into quarter sections. (Owner) Harrison C. Niethamer, 6808 Plaska St., Huntington Park, Calif. Groups 26—24; 28—83; 32—29—89; 33—12; 39—81; 40. Reg. No. 762.

Pat. 2,152,018. PLANT SUPPORT OR TRAINER. Patented March 28, 1939. Composed of two simple parts: a circular metal band which may be adjusted by means of holes, and an upright member which locks the band and serves as a stake. Quickly erected it serves to support or train fruit vines, bushes, flowers, etc. Has many varied uses and may be adapted as a construction unit of a trellis, arbor, tree protector, and the like. (Owner) Homer W. Barnhart, 1205 Sippo Ave., S. W., Canton 7, Ohio. Groups 33—73; 40. Reg. No. 763.

Pat. 2,017,227. WHEEL GUARD STRUCTURE. Patented Oct. 15, 1935. Deflector plate to be mounted on the fenders of an automobile to provide a streamlined effect. (Owner) Homer W. Barnhart, 1205 Sippo Ave. S. W., Canton 7, Ohio. Groups 33—72; 38—31. Reg. No. 764.

Pat. 2,288,879. BLOWOUT AND VENTILATING SMOKER'S PIPE. Patented July 7, 1942. Smoking pipe has usual appearance except that stem extends beyond face of bowl. Stem extension has rotatable hollow valve with a number of vents or ports which may be placed in three distinct positions either to allow ventilation, discharge of moisture by blowing, or smoking. Head of extension fitted with finger grip marked with letters so that correct manipulation is facilitated. (Owner) William I. Ballentine, 603 North Maple Drive, Beverly Hills, Calif. Group 39—96. Reg. No. 765.

Pat. 2,189,440. SWITCH MECHANISM. Patented Feb. 6, 1940. Rear warning signal light arranged to operate from the throttle or accelerator or linkage of a vehicle instead of the brake. (Owner) William I. Ballentine, 603 North Maple Drive, Beverly Hills, Calif. Groups 36—41; 38—31. Reg. No. 766.

Pat. 2,272,260. CONTAINER CLOSURE. Patented Feb. 10, 1942. A sanitary closure cap to be attached to collapsible tubes and the like to control the amount of paste, etc., being dispensed. Consists of three parts which are fitted together: an internal cone-shaped valve with an air duct and spout, an external cap with ports, and a retainer collar unit which clamps over and holds the parts together. In use, port and spout are aligned and ribbon of paste or paint is extruded by collapsing tube in the usual way. After cap is sealed by turning openings out of alignment paste or paint remaining in cap does not deteriorate or harden. Made of plastic or the like. (Owner) William I. Ballentine, 603 North Maple Drive, Beverly Hills, Calif. Groups 30—51; 39—81. Reg. No. 767.

Pat. 2,292,955. SELF-LIGHTING CIGARETTE. Patented Aug. 11, 1942. Fitted to the end of a cigarette is a small vented cardboard cylinder with a conical lower end into which is built a match and a striking surface. When end is pushed in, small twists of paper are ignited so that the slow burning will prevent the inhaling of fumes from match when cigarette is drawn on. (Owner) James C. McKissack, 5738 Almeda Rd., Houston, Tex. Groups 21—11; 26—25; 35—54; 40. Reg. No. 768.

Pat. 2,383,142. ROLLER BEARING. Patented Aug. 21, 1945. Double thrust roller bearings adapted to resist heavy thrust loads from either direction and large radial loads. Has outer tapered rollers which cooperate with inner cylindric rollers all within a bearing cage with raceways to maintain rollers in proper position. (Owner) Nicholas Medved, 1494 Canterbury Rd., Westlake, Ohio. Groups 33—73; 35—41—66. Reg. No. 769.

Pat. 2,057,972. CONVERTIBLE CONTAINER. Patented Oct. 20, 1936. A container for foods, cosmetics, medicines, and the like which may be converted into an ornamental flower pot, salt or pepper shaker, and other similar articles. Both the lid and base are separable and may be perforated if necessary. Variations are shown. May be made of plastic, glass, hard rubber, etc. (Owner) Carl E. Pieck, 1032 Scott St., Covington, Ky. Groups 26—91; 30—51; 33—73; 34—99; 39—81. Reg. No. 770.

Pat. 2,098,106. SYRINGE. Patented Nov. 2, 1937. Within barrel of syringe is a compound piston with threaded means to permit adjustment so as to deliver regulated dosage. Lower portion of piston is shaped to fit tapered constriction of barrel, has grooves so that charge may be rendered with a splattering effect. Can be disassembled for cleaning and storage. (Owner) Carl E. Pieck, 1032 Scott St., Covington, Ky. Groups 30—51; 39—15. Reg. No. 771.

Pat. 2,108,692. CONTAINER CLOSURE. Patented Feb. 15, 1938. Cap which fits standard Mason jar serves not only as a seal but by means of a cup attachment (positioned inside container) formed separately or integrally doubles as a measuring device by means of a graduated scale on the side of the cup. May be fitted by threading, etc. May be fabricated of plastic, glass, rubber, etc. Modifications given. (Owner) Carl E. Pieck, 1032 Scott St., Covington, Ky. Groups 26—91; 30—51; 33—73; 34—99; 39—81. Reg. No. 772.

Pat. 2,092,929. PENETRATIVE IMPLEMENT. Patented Sept. 14, 1937. Implement tapers to a sharp point and produces a crescent shaped cut instead of a hole. When used in surgery needle passes through living tissue with minimum resistance. Cutting edge of needle forms flap which aids in holding suture in position and provides resiliency to strain. (Owner) Edward J. Ovington, 143 Federal St., Boston, Mass. Groups 39—15—99. Reg. No. 773.

Pat. 2,170,693. SEAMED ARTICLE AND PROCESS FOR MAKING IT. Patented Aug. 22, 1939. Implement tapers to a sharp point and forms a crescent shaped cut instead of hole. Eye is placed slightly back of tapering portion for use in sewing machine. The cutting edges of needle create flaps which are utilized to form a stronger and more durable seam. Striae of cracks and incipient rents in patent leather usually caused when sewn with ordinary needle are eliminated. (Owner) Edward J. Ovington, 143 Federal St., Boston, Mass. Groups 39—15—99. Reg. No. 774.

Pat. 2,082,402. CAN OPENER ATTACHMENT. Patented June 1, 1937. Consists of T-shaped spring metal band and shield of absorbent material attached to leg of T; top portion of T is bent in a sliding fit around conventional can and bottle opener; when can is opened attachment is slid into position so shield will block or absorb material squirting from can. (Owner) Walter Kusnarowis, 218 Jillson Ave., Woonsocket, R. I. Groups 30—52; 33—59—73; 34—99; 40. Reg. No. 775.

Pat. 2,036,921. COIN CONTROLLED VENDING MACHINE. Patented April 7, 1936. Single article dispensing type with a merchandise ejector slide, a coin slide in alignment with ejector slide; coin slide assembly arranged for manual manipulation and slidably coupled to ejector slide in such a manner that when assembly is moved rearwardly engagement with ejector slide permits a single article to be ejected from storage into delivery chute. (Owner) William J. Christmas, 327 Bryant Road, Warrington, Fla. Groups 35—42—51—73. Reg. No. 776.

Pat. 2,303,098. REFRIGERATED DISPLAY CASE TRAY-HOLDING MEANS. Patented Nov. 24, 1942. Shaped strips which act as supporting means are inserted in display case; strips prevent trays in one row from sliding into other rows; strips are made in step configuration. Inexpensive and apparently present no manufacturing difficulties. Wide variety of display tray patterns can be secured. (Owner) Willis C. Waldo, 96 Fremont St., Claremont, N. H. Groups 25—41; 33—73; 34—31—41; 35—84; 40. Reg. No. 777.

Pat. 1,761,630. CLOTHESPIN. Patented June 3, 1930. Made of wood having split with series of cut-outs of varying sizes and shapes for receiving clothesline and clamping material of different thickness, preventing slipping from line. (Owner) George H. Jentzen, 5824 Meadowview Ave., North Bergen, N. J. Groups 25—99; 33—59; 40. Reg. No. 778.

Pat. 2,220,719. ANIMATED DISPLAY METHOD AND MEANS. Patented Nov. 5, 1940. Display mannequins having eyes that will blink, wink, or move from side to side, operated by mechanical means extending up back of figure to position close to eye openings; lower end connected to operating mechanism, such as spring motor or electric motor, at base of figure. (Owner) George H. Jentzen, 5824 Meadowview Ave., North Bergen, N. J. Groups 36—19—21; 39—41—93. Reg. No. 779.

Pat. 2,148,259. GAME. Patented Feb. 21, 1939. Board and indicator panels are provided with cooperating electrical connections, so arranged that detector member pressed by player in response to questions will close an electric circuit and automatically register a green or red light indicating right or wrong. (Owners) Harry G. Clain, Arthur D. Schneider, and Charles Lichtenstein. Address correspondence to Harry G. Clain, P. O. Box. 207, Church St. Annex, New York 8, N. Y. Groups 39—41; 36—99. Reg. No. 780.



Pat. 2,305,197. FLANGE. Patented Dec. 15, 1942. Flange adapted for use with metal barrels, drums, containers, etc., which can be easily pressed into place and held without welding so as to be fitted with a cover making container leak-proof, etc. Consists of a retaining ring with annular laterally and inwardly turned portions which fit over a body ring and grip the lip of a container opening. Several modifications are shown which adapt the flange to containers requiring threaded or unthreaded covers. (Owner) Harold M. Sheridan, 4214 Spruce St., New Boston, Ohio. Groups 33—64—73. Reg. No. 781.

Pat. 1,852,438. RAZOR BLADE SHARPENER. Patented April 5, 1932. A cup-shaped device having a semi-circular or arc-shaped inner surface, preferably glass, over which each cutting edge of the blade to be sharpened is adapted to pass; means whereby both beveled sides of a double or single edge razor blade may be sharpened in one position of the blade within the holder, and means for contributing an oscillatory movement to the blade within the holder. (Owner) Charles J. Soss, Lasher Road, Bloomfield Hills, Mich. Groups 32—29—39; 33—51; 40. Reg. No. 782.

Pat. 2,174,478. TIE HOLDER AND GUIDE. Patented Sept. 26 1939. Formed of resilient wire, bent at center to provide parallel upwardly extending knot supporting sections, the upper ends of which are connected together by a clip, ends extending laterally of clip forming arcuate-shaped arms in which tie is inserted and clamped to hold tie and knot in position. (Owners) James W. Pugh and Roy D. Worth. Address correspondence to James W. Pugh, 3345 So. Marion St., Englewood, Colo. Groups 33—41; 34—41—52; 39—71; 40. Reg. No. 783.

Pat. 2,311,277. HOOD. Patented Feb. 16, 1943. Transparent cover for bowl with hand openings on either side, permitting food to be chopped without the odor or fumes thereof reaching the face of person preparing food. Openings and portion fitting over bowl are gathered by means of an elastic band. (Owner) Helen J. Williams, 1203 Tucker St., Compton, Calif. Groups 22—52—53; 23—93; 28—51; 40. Reg. No. 784.

Pat. 2,302,476. ELECTRIC IRON. Patented Nov. 17, 1942. Electric iron with built in water container for supplying steam for pressing operations in which water level is automatically controlled. Water supply is fed to container by means outside of iron. Heating element is positioned under tank. Valve controls passage of steam through perforations in bottom of iron onto clothes or out of a port into the air as desired. (Owner) Louis Rubinstein, 614 East 136th St., New York, N. Y. Groups 33—66; 35—81; 36—21. Reg. No. 785.

Pat. 2,073,578. METHOD OF REFINING HYDROCARBON DISTILLATES. Patented Mar. 9, 1937. Reg. No. 786.

Pat. 2,174,510. METHOD OF CONTINUOUSLY HYDROFINING CARBONACEOUS VAPORS WITH SULPHUR SENSITIVE CATALYTIC SURFACES. Patented Oct. 3, 1939. Reg. No. 787.

The two patents listed above relate to the refining of hydrocarbon distillates, particularly to light petroleum distillates and those free or freed of asphaltic materials. The essential feature of this hydrogenation and/or desulphurization is the use of metallic catalysts, such as nickel, together with low pressures and comparatively low temperatures, whereby unstable sulphur compounds are removed or converted into less troublesome compounds, without loss of yield. The process eliminates wholly or partially the use of sulphuric acid and may be used alone or in conjunction with the old methods of refining. Process recited in patent. (Owner) Marion H. Gwynn, Mountain Lakes, N. J. Groups 28; 29.

Pat. 2,191,464. PROCESS FOR ACTIVATING CATALYTIC SURFACES. Patented Feb. 27, 1940. Reg. No. 788.

Pat. 2,319,453. PROCESS FOR ACTIVATING CATALYTIC SURFACES. Patented May 18, 1943. Reg. No. 789.

The two patents listed above relate to a highly active and black fixed catalytic surface useful in the hydrogenation of oils, etc., may be prepared from cobalt or nickel, etc., which is treated while in a porous state to form an adherent surface layer which is moderately catalytic. The surface is then oxydized until highly catalytic by means of a strongly alkaline aqueous solution of hypobromite or hypohalite. The product is useful in hydrofining operations. 2,319,453 activates the catalytic surfaces by means of chlorine dioxide and other halites employing higher temperatures and varying concentrations of the alkali and acid solutions. (Owner) Marion H. Gwynn, Mountain Lakes, N. J. Groups 28; 29.

Pat. 2,270,874. METHOD OF ACTIVATING CATALYTIC SURFACES. Patented Jan. 27, 1942. To accomplish the reactivation of the porous metallic catalyst a vapor of nitric acid is distributed over the surface to form a nitrate. The vapor is withdrawn and by heating, the nitrate is decomposed to a black oxide for use in hydrofining. (Owner) Marion H. Gwynn, Mountain Lakes, N. J. Groups 28; 29. Reg. No. 790.

Pat. 2,315,518. METHOD OF ACTIVATING CATALYTIC SURFACES. Patented Apr. 6, 1943. Achieves reactivation of a catalytic surface by peroxidation at the anode in an electrolytic bath of an aqueous solution of a hydroxide of calcium, barium, etc., to form a higher oxide on the catalytic surface. Several examples are given in the patent. (Owner) Marion H. Gwynn, Mountain Lakes, N. J. Groups 28; 29. Reg. No. 791.

## Notice

International Harvester Company is offering licenses at reasonable royalty under more than 1,000 of its 1243 patents. That company is preparing abstracts of the available patents and will publish a pamphlet stating its patent policy and containing these abstracts.

Further information can be procured by addressing Patent Department, International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

# BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

## RENDERED DURING NOVEMBER, 1945

BARRON-GRAY PACKING CO. *v.* BRUCE'S JUICES, INC., Cancelation No. 4061.

In a decision rendered November 2, 1945 (166 Ms. Dec. 884, 67 USPQ 177) *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the petition of Barron-Gray Packing Co., of San Jose, Calif., to cancel trade-mark registration No. 374,765, issued January 23, 1940, under the provisions of the act of February 20, 1905, to Bruce's Juices, Inc., of Tampa, Fla.

After noting that petitioner's theory of the case is somewhat difficult to comprehend, and quoting from its brief on appeal, it was held assuming all these allegations to have been established as facts, the question at once arises as to whether they constitute statutory grounds for cancelation, which is authorized by section 13 of the act only upon a showing "that the registrant was not entitled to the use of the mark at the date of his application for registration thereof, or that the mark is not used by the registrant, or has been abandoned."

In response to petitioner's argument that respondent's figures are always displayed in connection with a panel, so that the panel is a part of the trade-mark and that its omission from the drawing results in "mutilation," it was held that the design feature of the three waiters is a symbol of origin which is separable from the rest of the figures on the carton and separately registrable, but even if this holding were wrong, and respondent has registered only a portion of its mark, the First Assistant Commissioner was unable to perceive any likelihood of injury to petitioner from that circumstance. Nor is petitioner injured by the fact that respondent decorates its cartons with a variety of figures in a number of different arrangements and postures.

In response to petitioner's argument that respondent has used its registered mark not as a trade-mark, but only for purposes of ornamentation and advertising, because the mark is never affixed to the individual cans in which respondent's fruit juices and vegetable juices are sold, but is affixed to the cartons in which the cans are sold, it was held that section 29 of the act provides that a trade-mark deemed to be "affixed" to an article when it is placed in any manner in or upon either the article itself or the receptacle or package or upon the envelope or other thing in, by, or with which the goods are packed or enclosed or otherwise prepared for sale or distribution, and clearly respondent's carton is a "receptacle or package" in which the cans are "packed or enclosed * * * for sale or distribution;" moreover, it is a matter of common knowledge that such goods may be and frequently are purchased by housewives in case lots, and delivered by grocers in cartons such as those to which respondent's mark is affixed.

It was held that the burden was upon petitioner to allege and prove sufficient facts to establish its asserted injury by the registration it seeks to have canceled, and that petitioner has failed to discharge that burden.

---

STANDARD OIL COMPANY OF NEW JERSEY *v.* THE ALDEN SPEARE'S SONS CO., Opposition No. 22,914.

In a decision rendered November 5, 1945 (166 Ms. Dec. 886, 67 USPQ 220), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Standard Oil Company of New Jersey, of Wilmington, Del., to the application of The Alden Speare's Sons Co., of Cambridge, Mass., for registration of a trade-mark for a cutting lubricant, which consists essentially in the word "Kutkon," the mark having been in use since June 28, 1943. Opposer relied upon its own use, since March, 1916, of the descriptive term "Kutwell" in connection with substantially identical merchandise. It was stipulated that this word had been so widely used by opposer and is so well known in the trade, that the same has acquired a "secondary" meaning, indicating origin in opposer of the goods so marked.

After noting that the Examiner of Interferences was of the opinion that because opposer's mark is descriptive whereas the applicant's mark is arbitrary, the marks when considered as a whole sufficiently distinguish from each other so as to obviate the likelihood of confusion in trade, it was held that, in view of the stipulation, opposer's mark, though descriptive and hence nonregistrable as a technical trade-mark, may properly be regarded as a trade-mark for the purpose of this proceeding. But its descriptive character must nevertheless be considered in determining the question of probable confusion.

It was held that the only resemblance between the marks of the parties resides in the common descriptive syllable "Kut;" for certainly there is no similarity between the syllables "kon" and "well," so that purchasers would not likely be deceived in the origin of the goods merely because of the similarity above referred to .

---

THE PRINTZ BIEDERMAN COMPANY *v.* PRINCESS JUNIOR, INC., Cancelation No. 4334.

In a decision rendered November 7, 1945 (166 Ms. Dec. 888, 67 USPQ 221), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of The Printz Biederman Company, of Cleveland, Ohio, to cancel trade-mark registration No. 359,049, issued August 2, 1938, under the provisions of the act of February 20, 1905, to Princess Junior, Inc., of New York, N. Y. The mark shown in the registration consists essentially of the notation "Princess Junior" prominently displayed over the fanciful picture of a girl beneath which appears the words "Junior Classics," the words "Junior Classics" being disclaimed apart from the mark. Petitioner relied upon a variety of composite trade-marks, registered and unregistered, all dominated by the word "Printzess," and all appropriated to merchandise of the same descriptive properties as that listed in respondent's registration.

It was held that the Examiner correctly found that petitioner has had continuous use of "Printzess" upon its products since more than thirty years prior to respondent's entry into the field.

In response to respondent's argument that because petitioner has departed somewhat from the precise arrangement of its mark as registered, and has added or dropped certain descriptive matter, petitioner apparently has abandoned its marks and should not now be permitted to urge cancelation of appellant's mark, it was held that petitioner's priority of use rendered its registrations unnecessary as a basis for judgment, but since the registrations were all issued under the act of 1905, nonuse of the registered marks would be of no avail to respondent in this proceeding in any event.

In response to respondent's arguments that petitioner deals exclusively in coats and suits, and has manufactured no dresses since 1927, and that it is a generally accepted rule that a coat and suit house never makes dresses and a dress house never makes coats and suits, it was held that the average woman would be likely to assume that her dress and her suit, bearing similar trade-marks, were made by the same concern; moreover, the goods named in three of petitioner's registrations expressly include dresses, so that evidence of petitioner's failure to use the registered marks on this particular item was wholly irrelevant to the issues here involved and should be given no consideration whatsoever in determining the issues in this case.

In response to respondent's contention that petitioner is estopped to maintain this proceeding, because petitioner had knowledge of respondent's registration since the date of its publication in the OFFICIAL GAZETTE in May, 1938, and that a proposed opposition was abandoned after consultation with petitioner's present attorneys, it was held that such knowledge and conduct did not work an estoppel.

In response to respondent's argument that the petition should be dismissed because petitioner has adduced no evidence of actual confusion, it was held that a petitioner for cancelation who relies upon his ownership of a technical trade-mark need only show that he was using such mark when the petition was filed.

It was held that in the instant case, petitioner's registrations are sufficient evidence of its ownership and use of its registered trade-marks; and in addition it has proved actual use of its "Printzess" mark on coats and suits at the time its petition for cancelation was filed.

Although respondent's mark as a whole differs in appearance from each of petitioner's marks, it was held that the dominating words "Princess" and "Printzess" are substantially identical in all respects, and the addition of the word "Junior" in respondent's mark does not serve to distinguish them.

---

J. C. PENNEY COMPANY *v.* B. LOWENSTEIN & BROS., INC., Opposition No. 22,094, Cancelation No. 4193.

In a single decision rendered November 13, 1945 (166 Ms. Dec. 891, 67 USPQ 231), *First Assistant Commissioner Frazer*, after noting that the two cases involve substantially the same question, were submitted on the same record, and were briefed and argued together on appeal, affirmed, in each case, the decision of the Examiner of Interferences sustaining the opposition of J. C. Penney Company, of New York, N. Y., hereinafter designated as appellee, to the application of B. Lowenstein & Bros., Inc., of Memphis, Tenn., hereinafter designated as appellant, for registration of a trade-mark for men's suits, overcoats, sport shirts, jackets, and sweaters, and sustaining the petition of appellee to cancel registration No. 395,763, issued to appellant on June 9, 1942, under the provisions of the act of February 20, 1905, the registered mark being for men's suits and overcoats. The mark of the opposed application consists in the words "Top Flight" separated by the representation of an airplane in flight, beneath which are the words "Clothes" and "Lowenstein's," both disclaimed "except as in the association shown in the drawing of the mark." The only difference between this mark and the registered mark is that in the latter the word "Fashions" is substituted for the word "Clothes." Both marks have been in use since December 1, 1941. Appellee relied upon its earlier use of the unregistered mark "Topflight" for men's shirts.

It was held that it has long been established that men's shirts and the goods to which appellant's marks are appropriated constitute merchandise of the same descriptive properties, within the meaning of the statute.

It was held that the marks of the parties, when applied to such goods, are so nearly similar as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, since manifestly appellant's marks are dominated by the expression "Top Flight," which is substantially identical with appellee's mark "Topflight."

In response to appellant's contention that appellee has failed to prove trade-mark use of its "Topflight" mark, it was held that shirts so labeled have been

sold in appellee's retail stores continuously since early in 1935, for although the proof of these sales is by parol evidence only, the testimony of appellee's witnesses is clear and convincing, relates to a matter peculiarly within their knowledge, and is consistent with the undisputed fact that the merchandise was received for sale by the stores in which they were employed; moreover, the record contains documentary evidence of appellee's use of its mark in advertising continuously from December, 1935, to the time its testimony was taken in July, 1943. And while use in advertising is not proof of trade-mark use, the advertisements in question are corroborative of the testimony that the mark was used on the goods.

---

PHILLIPS-JONES CORPORATION *v.* MAY HOSIERY MILLS, Interference No. 3617.

In a decision rendered November 15, 1945 (166 Ms. Dec. 893, 67 USPQ 238), *First Assistant Commissioner Frazer* denied a petition by May Hosiery Mills, of Nashville, Tenn., from the ruling of the Examiner of Trade-Marks refusing to dissolve an interference declared between the application of Phillips-Jones Corporation, of New York, N. Y., for registration of the word "Blazer" as a trade-mark for men's and boys' outer shirts and pajamas, use being claimed since 1914, and a registration to petitioner of a mark for hosiery, consisting essentially in the same word and claimed to have been used since about August, 1934.

After noting that the parties stipulated in effect that the interference may be dissolved, which stipulation was treated by the Examiner of Interferences as a joint motion to dissolve, and was denied, it was held that the two trade-marks involved are confusingly similar, unless the goods to which they are respectively applied have different descriptive properties; and since the goods of the parties are of the same descriptive properties, both marks may not legally be registered, and the stipulation is of no avail to petitioner, for the parties, by their deeds or agreement, cannot confer upon the Commissioner of Patents the power to do that which he is prohibited from doing under the statute.

---

POLAROID CORPORATION *v.* SUN GLASS INDUSTRIES, INC., Opposition No. 22,914.

In a decision rendered November 16, 1945 (166 Ms. Dec. 895, 67 USPQ 239), *First Assistant Commissioner Frazer* denied the petition of Sun Glass Industries, Inc., of Newark, N. J., whose application for the registration of a trade-mark is involved in an opposition proceeding instigated on the notice of opposition filed by Polaroid Corporation, of Cambridge, Mass., from the rulings of the Examiner of Interferences dismissing petitioner's counterclaim and striking five paragraphs of its answer.

It was held that a cross demand must be pleaded as fully as an original cause of action, and all the facts relied upon must be alleged; in other words, the pleading must be sufficient in itself independently to state a cause of action.

It was further held that petitioner's obvious remedy is to file an amended counterclaim, which it may do, as a matter of course, under rule 15(*a*) of the Rules of Civil Procedure.

After noting that the paragraphs stricken from the answer constitute a collateral attack upon the validity of opposer's registration, it was held that this is clearly contrary to established practice, and evidence in support of such attack could be given no consideration, so that the matter stricken was thus immaterial and impertinent, and the motion to strike was properly granted under rule 12(*f*) of the Rules of Civil Procedure.

---

MONTGOMERY WARD & CO., INCORPORATED, *v.* ANDREW J. MCPARTLAND (ANDREW J. MCPARTLAND, INCORPORATED, ASSIGNEE, SUBSTITUTED), Cancelation No. 4376.

In a decision rendered November 16, 1945 (166 Ms. Dec. 896, 67 USPQ 240), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of Montgomery Ward & Co., Incorporated, of Chicago, Ill., to cancel trade-mark registration No. 326,257, issued July 23, 1935, under the provisions of the act of February 20, 1905, to Andrew J. McPartland (Andrew J. McPartland, Incorporated, Assignee, Substituted), of New Haven, Conn., the registered mark being the notation "Kwixtart," and the goods named in the registration being electric storage batteries.

After noting that the application was passed for publication after being twice rejected upon filing a disclaimer of the individual syllables of the mark apart from each other, in harmony with the then prevailing practice in the Patent Office, and that the petition to cancel was sustained on the ground that the mark, being a mere misspelling of the words "quick start," it was held that the mark is descriptive, and because it is descriptive, McPartland was not entitled to the use of the mark at the date of his application for registration thereof within the meaning of section 13 of the act; and the statute requires that the Commissioner shall cancel the registration.

---

CROMPTON COMPANY *v.* BRADSHAW AND MOORE, LIMITED (WAWAK COMPANY, INC., ASSIGNEE, SUBSTITUTED), Cancelation No. 4508.

In a decision rendered November 19, 1945 (166 Ms. Dec. 899, 67 USPQ 242), *First Assistant Commissioner Frazer* affirmed the ruling of the Examiner of Interferences denying the motion of Crompton Company, of Crompton, R. I., which had sought cancelation of a trade-mark registration issued to Bradshaw and Moore, Limited, of Manchester, England, and assigned to Wawak Company, Inc., of Chicago, Ill., for summary judgment under rule 56 of the Rules of Civil Procedure.

It was held that in the petition to cancel, facts are alleged that would probably entitle petitioner to relief if they were proved; but all material allegations of the petition are denied in the answer, and no testimony has yet been taken; and while the motion is supported in part by certain documentary exhibits, under Patent Office rules they may not properly be considered for that purpose at this stage of the proceeding.

---



EX PARTE SCHULTZ-ROSKY-BLOCK CO., Serial No. 469,696.

In a decision rendered November 19, 1945 (166 Ms. Dec. 900, — USPQ — ), *First Assistant Commissioner Frazer* denied a petition for reconsideration of his decision (579 O. G. 711, 67 USPQ 15), affirming the Examiner's refusal to register the word "Sarby" as a trade-mark on the ground that it is a surname not distinctively displayed.

---

EX PARTE MARGULIS BROTHERS, Serial No. 467,201.

In a decision rendered November 20, 1945 (166 Ms. Dec. 901, 67 USPQ 242), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Margulis Brothers, of St. Louis, Mo., a mark dominated by the word "Marbelle," for slips, pajamas, nightgowns, panties, skirts and jackets, dresses, slacks, slack suits and play suits, in view of each one of six registrations, all issued prior to applicant's claimed date of first use, and all for goods of the same descriptive properties as those listed in the application.

In response to counsel's argument that in some instances the registered marks bear a closer resemblance one to another than to applicant's mark, it was held that that circumstance adds nothing to applicant's right of registration.

After noting that one of the marks is the word "Marcelle" for hosiery and underwear for men, women and children; another is essentially the same word for children's and girls' dresses; "Mirabelle" is registered for men's, women's and children's underwear, and is the dominating word of another registration for dresses and coats for women, misses, and junior misses; "Marble" is registered for hosiery; and "May Belle" for children's dresses, it was held that in sound, at least, each of these marks is very similar to the word of applicant's mark; and it seems highly probable that applicant's use of its mark would cause confusion, or perhaps would merely add to the likelihood of confusion already existing, particularly in relation to the marks that are registered for merchandise substantially identical with certain items described in the application.

---

EX PARTE MARGULIS BROTHERS, Serial No. 467,249.

In a decision rendered November 20, 1945 (166 Ms. Dec. 901, 67 USPQ 243), *First Assistant Commissioner Frazer* affirmed the action of the Examiner refusing to register to Margulis Brothers, of St. Louis, Mo., a trade-mark, which he held to be confusingly similar to a previously registered mark, and appropriated to merchandise of the same descriptive properties. Applicant's mark is the word "Marbeau," printed in script and displayed in association with a design, the goods being described as garments for women, misses and girls, namely, slips, pajamas, nightgowns, housecoats, panties, skirts and jackets, dresses, slacks, slack suits and play suits, use being claimed since about October 16, 1943. The reference mark is the notation "Mi Beau," printed in block letters, for ladies' and misses' party and daytime frocks, which was registered on November 19, 1940.

It was held that manifestly applicant's goods and those of the registration are in part substantially identical, for in relation to feminine wearing apparel "frocks" and "dresses" are synonymous terms.

It was held that while the marks differ in appearance, the word of applicant's mark is too nearly like the registered mark, especially in sound, to be used on the same merchandise concurrently therewith without reasonable likelihood of confusion.

---

EX PARTE ERICK SVEN NORDSTROM, Serial No. 455,025.

In a decision rendered November 26, 1945 (166 Ms. Dec. 903, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had refused to register to Erick Sven Nordstrom, of Snyder, Okla., the notation "Sienna Pink," under the provisions of the act of March 19, 1920, as a trade-mark for granite, on the ground that it was the Examiner's opinion, because both words of the mark relate to color, that the mark as a whole is so purely descriptive of applicant's goods as to be wholly incapable of indicating origin.

It was held that so far as is known, there is no such color as sienna pink, and a fortiori there is no granite of that color, so that while each word may be independently descriptive, their combination thus results in an expression of sufficient incongruity to be registrable under the liberal terms of the 1920 act.

---

EX PARTE PHILIP H. DORN, Serial No. 459,903.

In a decision rendered November 26, 1945 (166 Ms. Dec. 903, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing, in view of four references, to register to Philip H. Dorn, of Boston, Mass., a mark comprising a capital "D," printed in script and intersected by a lightning flash, the mark being appropriated to electrical apparatus, namely: connection boxes, junction boxes, distribution boxes, switches, bells, buzzers, lamp annunciators, fluorescent lighting fixtures, and parts thereof.

It was held that since the four registrations cited by the Examiner are all owned by the same concern, it seems unnecessary to consider more than one of them.

After noting that the mark of this registration is a capital "D," printed in block type and inclosed within a heavy square border, the mark being used for fuses, switches, cut-outs, clips, back-connected

contacts, lugs, and rheostats, and observing that these goods and applicant's are in part identical, it was held that while there are arguable differences between the marks in question, both are dominated by the letter "D," and are thus so nearly alike that their concurrent use would inevitably lead to confusion.

---

EX PARTE SIMON BRENNER, Serial No. 471,968.

In a decision rendered November 27, 1945 (166 Ms. Dec. 904, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Simon Brenner, of Worcester, Ohio, a mark for men's and boys' underwear, which is claimed to have been used since June 16, 1944, the mark comprising a circular design the most prominent feature of which is the letter "K," above and below which occur the notations "Safety-K" and "Front," the words "Safety" and "Front" being disclaimed. The application was rejected in view of a prior registration of the letter "K," displayed in association with a picture of a cowboy riding a bucking broncho, the goods listed in this registration including custom-made underwear, and the registration being dated January 29, 1929.

It was held that the letter "K" is dominant in each mark, and certainly that is true of applicant's mark, for it is well settled that a trade-mark cannot be dominated by disclaimed descriptive words.

In response to applicant's argument that the average purchaser would associate the letter "K" with the broncho and the rider as constituting the registrant's mark, and not merely the letter "K" alone, it was held that nevertheless the letter is a prominent part of the mark, and may well be used alone in calling for the registrant's goods; so that as the two marks appear to be confusingly similar, the Examiner had no alternative but to refuse the registration applied for.

---

NOMA ELECTRIC CORPORATION *v.* WOODI-TOY COMPANY, Opposition No. 23,147.

In a decision rendered November 27, 1945 (166 Ms. Dec. 906, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Noma Electric Corporation, of New York, N. Y., to the application of Woodi-Toy Company, of Los Angeles, Calif., for registration of the notation "Woodi-Kin" as a trade-mark for toys comprising a plurality of elements which may be optionally assembled to form different objects. The mark is claimed to have been used since July 28, 1943; but as applicant took no testimony, the earliest date to which it is here entitled is October 2, 1943, when the application was filed. Opposer owns a trade-mark for pull toys, which was registered August 31, 1943. It is essentially the notation "Noma Woodies," printed in two lines.

After noting that opposer's toys, like applicant's, are made of wood, it was held that though the two items are not identical, they are very closely related merchandise of the same descriptive properties.

It was held that the word "Woodies" is a prominent feature of opposer's mark, and is so nearly similar to applicant's mark as to render the latter nonregistrable; for while both marks must be considered as a whole, and the word "Noma" of opposer's mark is not to be disregarded, nevertheless the two marks are confusingly similar, and the fact that applicant has disclaimed the word "Woodi" does not make them less so.

---

AYERST, MCKENNA & HARRISON LIMITED *v.* WILLIAM R. WARNER & CO., INC., Opposition No. 23,235.

In a decision rendered November 27, 1945 (166 Ms. Dec. 905, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Ayerst, McKenna & Harrison Limited, of New York, N. Y., to the application of William R. Warner & Co., Inc., also of New York, N. Y., for registration of the word "Supplevita" as a trade-mark for a vitamin composition. The opposition was sustained on the ground that applicant's mark is confusingly similar to opposer's trade-mark "Supplamin," previously used and registered for a calcium and phosphorous preparation with vitamins A and D intended as a dietary supplement.

It was held that the two marks are likely to convey the same impression. Nor do they differ sufficiently, either in appearance or in sound, to be used concurrently on competitive merchandise of the character here involved without a reasonable likelihood of confusion.

---

SOCIETE ANONYME MIDO *v.* MEYER & STUDELI SOCIETE ANONYME, Opposition No. 22,115.

In a decision rendered November 29, 1945 (166 Ms. Dec. 910, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Societe Anonyme Mido, of New York, N. Y., to the application of Meyer & Studeli Societe Anonyme, of London, England, for registration of the word "Meda" inclosed within an elliptical border, claimed to have been used since September 25, 1929, as a trade-mark for watches, clocks, and parts thereof. Opposer relied upon its ownership and use of the trade-mark "Mido," registered March 8, 1927, for watches and chronometers, watch movements, watch cases, dials, and parts of watches.

It was held that the goods of the parties are of identical descriptive properties, and that their marks are so nearly similar both in sound and appearance as to be likely to lead to confusion in trade.

In response to applicant's argument that its watches are low priced products for the low income group, while the Mido line is an expensive accurately finished, nationally advertised product, it was held that as the application is not restricted to merchandise of any particular price or quality, the registration would be prima facie evidence of applicant's ownership of the mark for watches of all kinds.

In response to applicant's argument that because it owns a registration of the word "Medana," issued in 1920 and renewed, for the same goods as those here in question, which registration antedates opposer's first use of the "Mido" mark, opposer's rights as to priority are curtailed and restricted, it was held that clearly opposer has established priority with respect to "Meda," and applicant's rights in "Medana" are not in issue; if opposer is impinging upon those rights, applicant has its remedy by cancelation.

In response to applicant's proof that certain other somewhat similar marks have been registered and used by third parties for substantially the same goods, it was held that this state of affairs does not strengthen applicant's case.

---

EX PARTE THE DOBECKMUN COMPANY, Serial No. 441,354.

In a decision rendered November 29, 1945 (166 Ms. Dec. 909, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had refused to register to The Dobeckmun Company, of Cleveland, Ohio, a mark for bread wrappers, sold in roll, sheet, or bag form, the mark being essentially the representation of a rooster.

After noting that because the mark fits into a handsome label color scheme in red, black, and yellow, the Examiner was of the opinion that it does not function as a trade-mark for bread wrappers but merely as an ornamental design, or as a portion of such design, for the wrappers, it was held that a trade-mark may properly be registered even though ornamental, and that certainly there is nothing about a rooster that would suggest a bread wrapper, and that the Examiner erred in refusing to register applicant's mark.

---

EX PARTE THE DRACKETT COMPANY, Serial No. 463,621.

In a decision rendered November 29, 1945 (166 Ms. Dec. 907, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks finally rejecting the application of The Drackett Company, of Cincinnati, Ohio, to register, under the provisions of the act of March 19, 1920, a mark appropriated to a chemical for cleansing drains, sinks, washbowls, etc., the mark consisting of the pictorial representation of a hand pouring the contents of a can into a sink or basin from which extends a conventional drain pipe, a heavy broken line, indicating the path of the substance poured from the can, extending through the drain pipe.

After noting that the Examiner's chief ground of rejection is that applicant's claim of exclusive use during the year next preceding the filing date of the application is inconsistent with the Commissioner's decision in an opposition proceeding, it was held that the decision in the opposition proceeding was rendered August 30, 1934, and the instant application was not filed until September 24, 1943; and the fact that confusingly similar marks, or even identical devices, were in use by others in 1934, is no evidence that they were still in use eight or nine years later.

It was held that the decision in the opposition proceeding is authority for nothing more than a finding that applicant's mark is descriptive, but descriptiveness is no bar to registration under the 1920 act, where, as here, the mark sought to be registered has trade-mark significance.

After noting that the Examiner refused registration on the additional ground that applicant's mark is confusingly similar to the mark of a registration for substantially the same goods, which was issued under the act of 1920 on October 4, 1938, this mark being similar to applicant's to the extent that it includes the representation of a washbasin or sink, but it is dominated by the words "Drain Kleen" and a solid circular background, it was held that the First Assistant Commissioner doubted that confusion would result from the concurrent use of both marks, and if the registrant deems himself injured he can always petition to cancel applicant's registration.

---

EX PARTE THE WM. S. MERRELL COMPANY, Serial No. 472,527.

In a decision rendered November 29, 1945 (166 Ms. Dec. 915, — USPQ —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks refusing registration to The Wm. S. Merrell Company, of Cincinnati, Ohio, of the mark "Ferrocalfate" for a product in capsule form for use in the treatment of mineral and vitamin deficiency.

After noting that the Examiner held the mark to be confusingly similar to the mark "Ferrocol," registered to another in registration No. 349,186, dated August 24, 1937, for a solution and a scale salt containing iron and copper in colloidal form, applied either orally or by injection in cases of extreme chlorosis, anemia and wherever iron therapy is indicated; and that the Examiner also held that the respective goods are of the same descriptive properties, it was held that the Examiner was clearly correct in holding that the goods as named in applicant's application and the goods as named in registration No. 349,186 are goods of the same descriptive properties; and that the marks are similar and that registration was properly refused.

After noting that the Examiner further refused registration in view of another prior registration which, however, was not mentioned in the Examiner's statement on appeal, it was held that the registration not mentioned in the Examiner's statement was deemed to have been withdrawn as a basis for rejecting registration of applicant's mark and will not be considered further.

EX PARTE FULLER LABEL & BOX COMPANY, Serial No. 463,869.

In a decision rendered November 29, 1945 (166 Ms. Dec. 915, — USPQ —), *Assistant Commissioner Van Arsdale* reversed the action of the Examiner of Trade-Marks refusing registration to Fuller Label & Box Company, of Pittsburgh, Pa., of the mark "Chute-A-Pack" for a container with parachute attached for aerial dropping of articles from airplanes and the like, the Examiner having considered the mark merely descriptive of the parachute equipped container to which the mark is applied.

It was held that the mark is highly suggestive, but that it is not so palpably merely descriptive of the goods as to compel refusal of the registration applied for.

---

NUTRISOY COMPANY *v.* ARCHER-DANIELS-MIDLAND COMPANY, Opposition No. 22,866.

In a decision rendered November 29, 1945 (166 Ms. Dec. 917, — USPQ —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Interferences sustaining the notice of opposition filed by Nutrisoy Company, of New York City, N. Y., against the granting of registration to Archer-Daniels-Midland Company, of Minneapolis, Minn., of the word "Nutrisoy" for soybean flour, soybean flakes as an additive for flours and meat extender and soybean grits, use being claimed since March 15, 1937. The notice of opposition asserts use by opposer of the mark "Nutrasoya" for soya products from about the year 1920 until 1939, at which time the spelling of the mark was changed to "Nutrisoy" and the use extended to other soybean products, including canned green soybeans, dried soybeans, meat stretchers and griddle cake mix containing soybean, which use of the mark opposer is still continuing.

It was held that there appears to be no question but that the marks are confusingly similar and the goods to which the marks are applied are goods of the same descriptive properties.

In response to applicant's argument that the record establishes that applicant used its mark on its goods since prior to the date of first use of the mark asserted by the opposer and does not establish the contrary, as held by the Examiner, and further that opposer has failed to establish its legal acquisition of the rights and title of the owners and users of the asserted mark prior to 1942, or the business in which the mark was then used, after reviewing the testimony it was held that the Examiner's ruling as to use of opposer's mark prior to applicant's first use has been adequately established.

EX PARTE GENERAL SHOE CORPORATION, Serial No. 469,333.

In a decision rendered November 30, 1945 (166 Ms. Dec. 913, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had rejected the application of General Shoe Corporation, of Nashville, Tenn., to register a mark under the provisions of the act of March 19, 1920, in view of a copending application under the act of February 20, 1905, to register the same mark for merchandise of the same descriptive properties, the application under the act of 1905, now abandoned, having been filed some five weeks later, but use of the mark being there claimed since June 1, 1943.

After noting that, assuming that claim to be true, the Examiner held that it sufficiently negatived exclusive use of the mark by the present applicant during the year immediately preceding the filing date of its application, it was held that for purposes of ex parte prosecution, dates alleged in an application under either act may properly be accepted; but in an inter partes proceeding, the mere pendency of an application is not competent evidence of use, even as of its filing date, unless such application is directly involved.

It was held that the practice sanctioned by *Ex parte Anchor Sawmills Co.*, 156 Ms. D. 516, and *Ex parte Spanish Trading Corporation*, 156 Ms. D. 572, is unwarranted, and those cases were overruled.

It was held that because there are no interferences between applications under the act of 1920, the only fair way to determine the question of registrability as between conflicting claimants is to allow the case first filed, then reject the later case in view of the registration; the rejected applicant can always petition to cancel, and will doubtless do so if he is able to prove injury; and that opportunity will thus be afforded to investigate such questions as the one here presented, in orderly fashion and without resort to ex parte affidavits that have no probative value.

---

EX PARTE MINNESOTA VALLEY CANNING COMPANY, Serial No. 463,177.

In a decision rendered November 30, 1945 (166 Ms. Dec. 914, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Minnesota Valley Canning Company, of Le Sueur, Minn., the notation "Northern Farm," under the provisions of the act of February 20, 1905, as a trade-mark for canned peas, on the ground that the mark is descriptive of the goods.

# TRADE-MARKS

## OFFICIAL GAZETTE, DECEMBER 25, 1945

[VOL. 581. No. 4]

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.**

**Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.**

**As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

## CLASS 4

### ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 485,806. ARROW ENGINEERING & CHEMICAL CO., INC., Flint, Mich. Filed July 14, 1945.

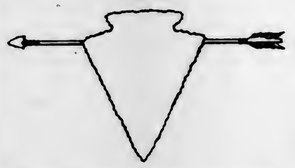
HY-VAL

FOR WRAPPING MACHINE CLEANING PREPARATION, FLOOR SCRUBBING COMPOUND, POWDERED HAND SOAP, PAN WASHING COMPOUND, AND WRAPPING MACHINE DELIVERY BELT DE-WAXING OIL.

Claims use since July 5, 1945.

---

Ser. No. 485,807. ARROW ENGINEERING & CHEMICAL CO., INC., Flint, Mich. Filed July 14, 1945.



FOR WRAPPING MACHINE CLEANING PREPARATION, FLOOR SCRUBBING COMPOUND, POWDERED HAND SOAP, PAN WASHING COMPOUND, AND WRAPPING MACHINE DELIVERY BELT DE-WAXING OIL.

Claims use since July 5, 1945.

---

Ser. No. 486,425. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn. Filed July 28, 1945.

HONITE

FOR ABRASIVE IN PARTICULATE OR PIECE FORM.

Claims use since July 1944.

Ser. No. 487,381. PARFUMS CHARBERT, INC., New York, N. Y. Filed Aug. 21, 1945.

730

FOR SHAVING CREAM, SHAVING SOAP AND TOILET SOAP.

Claims use since July 25, 1945.

## CLASS 6

### CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 476,352. ANGELO AMENTA, trading as A. Amenta & Co., Johnstown, Pa. Filed Nov. 11, 1944.

EXSELRUB

FOR PREPARATION AND BEAUTIFIER FOR THE HAIR AND REMOVER OF LOOSE DANDRUFF FROM THE SCALP.

Claims use since Oct. 8, 1944.

---

Ser. No. 481,749. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Apr. 5, 1945.

AMINOVEN

FOR PHARMACEUTICAL PREPARATION, AN AMINO ACID PRODUCT FOR INTRAVENOUS USES FOR THE TREATMENT OF HYPOPROTEINAEMIA.

Claims use since Mar. 5, 1945.

Ser. No. 483,130. THE ARMAND COMPANY, Des Moines, Iowa. Filed May 9, 1945.

*Pearls in Wine*

FOR LIPSTICK, ROUGE, FACE CREAM, CLEANSING LOTION, AND MAKE-UP.
Claims use since Dec. 2, 1944.

Ser. No. 483,558. TEC CHEMICAL CORPORATION, New York, N. Y. Filed May 18, 1945.

**TECADERMA**

FOR PROTEOLYTIC ENZYME FOR USE AS A LEATHER BATE CONSISTING OF A CHEMICAL ESPECIALLY ADAPTED FOR DELIMING AND REDUCING HIDES TO NORMAL THICKNESS.
Claims use since May 14, 1945.

Ser. No. 484,704. HARRY ROBERTSON, Detroit, Mich. Filed June 18, 1945.

*Penicident*

FOR TOOTH POWDER.
Claims use since May 23, 1945.

Ser. No. 485,957. NICHOLAS MIMIKOS, Detroit, Mich. Filed July 18, 1945.

YOU • • ALONE

FOR PERFUME.
Claims use since May 7, 1945.

Ser. No. 485,988. BENJAMIN LEE COHEN, Camden, N. J. Filed July 19, 1945.

AIDZEMA

FOR MEDICATED SKIN CREAM.
Claims use since July 20, 1941.

Ser. No. 486,333. SARGEANT ACNOID PHARMACEUTICAL CO., INC., East Orange, N. J. Filed July 26, 1945.

**CASTROID**

FOR OINTMENT FOR THE TREATMENT OF HEMORRHOIDS.
Claims use since June 17, 1945.

Ser. No. 486,374. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed July 27, 1945.

**MUSIC AT MIDNIGHT**

FOR PERFUME.
Claims use since May 10, 1945.

Ser. No. 486,407. LEONARD FRIEDBERG, New York, N. Y. Filed July 28, 1945.

**Kissable Skin**

Applicant disclaims sole use of the word "Skin" apart from the mark as shown.

FOR ROUGE, FACE POWDER, PERFUME, TOILET WATER, SACHET IN PERFUMED CONTAINERS, BATH POWDER, BATH SALTS, COLOGNE, CAKE MAKE-UP, LIPSTICK, BRILLIANTINE, BUBBLE BATH, CREAM POWDER BASE, EYE MASCARA, TALCUM POWDER, EYE-BROW PENCIL, HAND CREAM, HAND LOTION, WATER SOFTENER, BLEACH CREAM, FRECKLE CREAM, SOFTENING CREAM, FOUNDATION CREAM, CUTICLE REMOVER, DEPILATORY, EYE SHADOW, EYE LOTION, FACIAL MASK, LEG MAKE-UP, NAIL POLISH, NAIL POLISH BASE COAT, NAIL POLISH REMOVER, SUNBURN PREVENTATIVE, SHAMPOO AND HAIR WAVE LOTION.
Claims use since July 11, 1945.

Ser. No. 486,436. HELENE PESSL, INC., New York, N. Y. Filed July 28, 1945.

MELINDA

FOR FACE POWDER, ROUGE, LIPSTICK, TOOTH PASTE, PERFUME, TOILET WATER, HAND LOTION, SHAMPOO, BUBBLE BATH, A SCENTED LIQUID USED IN THE BATH TO PRODUCE BUBBLES, DUSTING POWDER, HAND MITT CONTAINING BODY POWDER AND LIPSTICK POMADE.
Claims use since July 6, 1945.



Ser. No. 486,492. KERR DENTAL MANUFACTURING COMPANY, Detroit, Mich. Filed July 30, 1945.

**MICROFILM**

FOR CHEMICAL LUBRICANT FOR THE SURFACE OF A MOLD USED IN PRECISION CASTING.
Claims use since June 8, 1945.

Ser. No. 486,928. BROMA C. TOWNS, Huttig, Ark. Filed Aug. 8, 1945.

KLISTOLEUM

FOR PREPARATION FOR THE RELIEF OF CHEST COLDS, BRONCHIAL IRRITATIONS ACCOMPANYING COLDS, AND ACUTE ASTHMA.
Claims use since Apr. 17, 1945.

Ser. No. 486,929. BROMA C. TOWNS, Huttig, Ark. Filed Aug. 8, 1945.

SALISAC

FOR PREPARATION FOR THE RELIEF OF BACKACHE, SORE MUSCLES, HEADACHE AND NEURALGIA WHEN DUE TO EXPOSURE AND FATIGUE.
Claims use since Oct. 20, 1944.

Ser. No. 487,042. THE FIXACO COMPANY, St. Louis, Mo. Filed Aug. 11, 1945.

**FIXACO**

FOR CONFECTION TO BE USED IN THE TREATMENT OF COUGHS, COLDS, SORE THROATS, AND HOARSENESS.
Claims use since June 5, 1924.

Ser. No. 487,101. DAMON S. SCOTT, doing business as The Scott Company, Montgomery, Ala. Filed Aug. 13, 1945.

*Scottene*

FOR HAIR DRESSING.
Claims use since Apr. 1, 1945.

Ser. No. 487,175. COTY, INC., New York, N. Y. Filed Aug. 17, 1945.

LUMEN

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Apr. 7, 1924.

Ser. No. 487,176. COTY, INC., New York, N. Y. Filed Aug. 17, 1945.

SPIRITUELLE

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Apr. 7, 1924.

Ser. No. 487,255. HERCULES POWDER COMPANY, Wilmington, Del. Filed Aug. 18, 1945.

**DYCORO**

FOR CHEMICAL FOR INSECTICIDAL USES.
Claims use since July 27, 1945.

Ser. No. 487,409. ASSOCIATED PRODUCTS, INC., Chicago, Ill. Filed Aug. 22, 1945.

**TWO AGAIN**

FOR FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, AND PERFUME.
Claims use since July 24, 1945.

Ser. No. 487,576. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Aug. 25, 1945.

METADEE

FOR VITAMIN PREPARATION.
Claims use since July 27, 1945.

## CLASS 8

## SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 487,757. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Aug. 30, 1945.

CORSAIR

FOR SMOKING PIPES.
Claims use since Jan. 10, 1945.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 482,703. ROHR AIRCRAFT CORPORATION, Chula Vista, Calif. Filed Apr. 27, 1945.

**FIRO-MIX**

No claim is made to the word "Mix" except in the association shown.

FOR HEAT-RESISTING SEALANTS FOR COVERING AND SEALING JOINTS OF METALLIC PARTS OR OPENINGS THERETHROUGH OR WEAKNESSES THEREIN AND BEING RESISTANT TO DELETERIOUS EFFECTS FROM OPEN FLAME.

Claims use since Dec. 15, 1944.

---

Ser. No. 482,704. ROHR AIRCRAFT CORPORATION, Chula Vista, Calif. Filed Apr. 27, 1945.

**THIO-MIX**

No claim is made to the word "Mix" except in the association shown.

FOR SEALING, GASKETING AND CUSHIONING PASTE COATING MATERIALS, PARTICULARLY PASTE COATING SEALING AND CUSHION COMPOUNDS USED IN SEALING TANKS AND WHERE CUSHION SEALS ARE DESIRED.

Claims use since Dec. 20, 1944.

---

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 472,386. THE KINDT-COLLINS COMPANY, Lakewood, Ohio. Filed July 19, 1944.

**"Master Dowels"**

Applicant disclaims use of the word "Dowels" apart from the mark as shown.

FOR DOWELS USED IN PATTERNS TO PREVENT MOVEMENT BETWEEN PARTS THEREOF.

Claims use since July 1, 1923.

---

Ser. No. 472,389. THE KINDT-COLLINS COMPANY, Lakewood, Ohio. Filed July 19, 1944.

**Metal Master Dowels**

Applicant disclaims use of the words "Metal" and "Dowels" apart from the mark as shown.

FOR DOWELS USED IN PATTERNS TO PREVENT MOVEMENT BETWEEN PARTS THEREOF.

Claims use since July 1, 1923.

---

Ser. No. 488,133. THE TURNER & SEYMOUR MFG. CO., Torrington, Conn. Filed Sept. 7, 1945.

**Hidalift**

FOR SASH BALANCES AND PARTS THEREOF.

Claims use since Aug. 3, 1945.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 474,697. LATROBE ELECTRIC STEEL COMPANY, Latrobe, Pa. Filed Sept. 28, 1944.

**L.P.D.**

FOR STEEL BARS, BILLETS, AND FORGINGS.

Claims use since Mar. 1, 1939.

---

Ser. No. 486,029. ALBERT M. DIEHL, doing business as The Diehl Steel Company, Cincinnati, Ohio. Filed July 20, 1945.

**BLUE STREAK**

FOR HIGH SPEED STEEL IN BAR FORM.

Claims use since June 21, 1945.

---

## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 486,860. LANE TOBACCO, LTD., New York, N. Y. Filed Aug. 7, 1945.

**HOCKEY CLUB**

FOR SMOKING TOBACCO.

Claims use since July 1945.

---

Ser. No. 487,991. CONSOLIDATED CIGAR CORPORATION, New York, N. Y. Filed Sept. 5, 1945.

**El Sidelo**

FOR CIGARS.

Claims use since 1912.

---

Ser. No. 487,995. CONSOLIDATED CIGAR CORPORATION, New York, N. Y. Filed Sept. 5, 1945.

**44**

FOR CIGARS.

Claims use since Feb. 16, 1897.



Ser. No. 488,335. LANE TOBACCO, LTD., New York, N. Y. Filed Sept. 12, 1945.

**NEPTUNE**

FOR SMOKING TOBACCO.

Claims use since Aug. 1, 1945.

---

## CLASS 19

### VEHICLES

Ser. No. 473,494. AIRCRAFT COMPONENTS, INC., Van Nuys, Calif., now by change of name A. C. Mfg. Co., a corporation of California. Filed Aug. 22, 1944.



Applicant disclaims the word "Garden" apart from the mark as shown.

FOR CARTS FOR GARDEN TOOLS.

Claims use since July 28, 1944.

---

Ser. No. 483,231. MONROE AUTO EQUIPMENT COMPANY, Monroe, Mich. Filed May 14, 1945.

**E-Z RIDE**

The word "Ride" is diclaimed apart from the mark.

FOR SPRING SUSPENDED SHOCK ABSORBER CONTROLLED SEATS FOR MOTOR VEHICLES.

Claims use since Apr. 25, 1945.

---

Ser. No. 487,047. HIGGINS INDUSTRIES, INC., New Orleans, La. Filed Aug. 11, 1945.

**INVADER**

FOR MOTOR BOATS.

Claims use since March 1945.

---

## CLASS 20

### LINOLEUM AND OILED CLOTH

Ser. No. 487,319. GAMBLE-SKOGMO, INC., Minneapolis, Minn. Filed Aug. 20, 1945.

**Dura Lux**

FOR FLOOR COVERINGS OF THE LINOLEUM TYPE.

Claims use since January 1943.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 475,038. HARRY AUGEN, doing business as Graphited Lubricants Co., Brooklyn, N. Y. Filed Oct. 7, 1944.

No claim is made to the words "Ignition" and "Mfg. Co." apart from the mark shown.




FOR IGNITION CONTACT POINTS FOR AUTOMOBILE ENGINE DISTRIBUTORS.

Claims use since July 7, 1944.

---

Ser. No. 483,749. UTAH RADIO PRODUCTS COMPANY, Chicago, Ill., assignor to International Detrola Corporation, Detroit, Mich., a corporation of Indiana. Filed May 24, 1945.

**Magicwire**

FOR SOUND RECORDING AND SOUND REPRODUCING EQUIPMENT—NAMELY, APPARATUS FOR ELECTRICALLY RECORDING OR REPRODUCING SOUND OR OTHER SIGNALS UPON WIRE, SPECIFICALLY, WIRE RECORDERS AND REPRODUCERS.

Claims use since Mar. 8, 1945.

---

Ser. No. 485,108. THE WALKER COMPANY, Middleboro, Mass. Filed June 27, 1945.

**BRAILWAY**

FOR ELECTRIC SWITCHES.

Claims use since May 14, 1945.

---

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 486,754. WILLIAM B. COGGIN, INC., Chicago, Ill. Filed Aug. 6, 1945.

**GO-DEVIL**

FOR TOY COASTER WAGONS.

Claims use since Mar. 30, 1945.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 480,820. GARDEX, INC., La Porte, Ind. Filed Mar. 12, 1945.

"Soil-Flow"

The word "Soil" is disclaimed apart from the mark as shown.

FOR GARDEN TOOLS, SPECIFICALLY, HOES, HAND CULTIVATING TOOLS, RAKES, LAWN EDGERS.

Claims use since October 1935.

---

Ser. No. 480,956. METAL CUTTING TOOLS AND MANUFACTURING COMPANY, Detroit, Mich. Filed Mar. 15, 1945.

GUILD

FOR MACHINERY AND TOOLS AND PARTS THEREOF—NAMELY, HIGH SPEED STEEL AND TUNGSTEN CARBIDE TIPPED ROTARY METAL WORKING CUTTING TOOLS, REAMERS, MILLING CUTTERS, SLAB CUTTERS, AND HOBS.

Claims use since Dec. 21, 1944.

---

Ser. No. 484,388. H. R. BASFORD CO., San Francisco, Calif. Filed June 11, 1945.

GRIPSO

FOR WRENCHES AND PLIERS.

Claims use since May 11, 1945.

---

## CLASS 24

### LAUNDRY APPLIANCES AND MACHINES

Ser. No. 481,025. W. C. MORRIS COMPANY, Van Nuys, Calif. Filed Mar. 17, 1945.

PIN—UPS

The word "Pin" is disclaimed apart from the mark as shown.

FOR CLOTHESPINS.

Claims use since Dec. 16, 1944.

## CLASS 25

### LOCKS AND SAFES

Ser. No. 484,418. MISSING LINK KEY SHOP, INC., Miami, Fla. Filed June 11, 1945.

MISSING LINK KEY SHOP INC.

Applicant disclaims use of the words "Key Shop Inc." and the representation of a key, apart from the mark shown.

FOR KEYS, SAFES, AND LOCKS.

Claims use since Jan. 1, 1945.

---

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 488,186. BURKE & JAMES, INC., Chicago, Ill. Filed Sept. 10, 1945.

Solarmatic

FOR PHOTOGRAPHIC CAMERAS AND PHOTOGRAPHIC ENLARGERS.

Claims use since Aug. 1, 1945.

---

## CLASS 27

### HOROLOGICAL INSTRUMENTS

Ser. No. 487,448. UNIMEX COMPANY, New York, N. Y. Filed Aug. 22, 1945.

"UNIMEX"

FOR WATCHES AND PARTS THEREOF.

Claims use since Aug. 3, 1945.

---

Ser. No. 488,409. EMIL LEICHTER, New York, N. Y. Filed Sept. 13, 1945.

ATOMIC

FOR WATCHES.

Claims use since Aug. 20, 1945.



## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 487,627. NOVELTY JEWELRY CORPORATION, New York, N. Y. Filed Aug. 27, 1945.

DU JOUR

FOR SIMULATED PEARLS.

Claims use since Jan. 10, 1945.

---

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 476,429. FREDERICK V. FOWLER, doing business as Stanton Supply Co., Boston, Mass. Filed Nov. 14, 1944.

TEDDY

FOR WAX APPLICATORS AND POLISHERS, THE WAX APPLICATORS AND POLISHERS COMPRISING A PADDED BLOCK HAVING A HANDLE FOR MANUALLY APPLYING THE WAX AND FOR POLISHING FLOORS OR FURNITURE BY BUBBING THE PAD THEREOVER, AND POWDER PUFFS AND DUSTING MITTS.

Claims use since June 3, 1943.

---

Ser. No. 487,242. COLUMBIA PRODUCTS CORPORATION, Brooklyn, N. Y. Filed Aug. 18, 1945.

Blue Bird

FOR POWDER PUFFS.

Claims use since 1925.

---

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 489,039. ARTHUR BROWN, New York, N. Y. Filed Sept. 27, 1945.

TRANSLUMEN

FOR MIRRORED PICTURE FRAMES, MIRRORED BARS, MIRRORED SHOW CASES, MIRRORED END TABLES, AND MIRRORED COUNTER DISPLAY STANDS.

Claims use since Oct. 9, 1944.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 486,289. CHICAGO PRINTED STRING COMPANY, Chicago, Ill. Filed July 26, 1945.

TIE ◆ TIE

FOR DECORATIVE WRAPPING PAPER, AND ENCLOSURE CARDS HAVING BLANK SPACES THEREON TO BE FILLED IN.

Claims use since February 1933.

---

Ser. No. 487,084. KEITH PAPER COMPANY, Turners Falls, Mass. Filed Aug. 13, 1945.

ATOMIC

FOR WRITING AND PRINTING PAPER.

Claims use since Aug. 9, 1945.

---

Ser. No. 487,745. WHITING PAPER COMPANY, Holyoke, Mass. Filed Aug. 29, 1945.

ATOMIC BOND

No claim is made to the word "Bond" apart from the combination as shown.

FOR WRITING PAPER AND ENVELOPES.

Claims use since Aug. 10, 1945.

---

Ser. No. 487,867. PETER J. SCHWEITZER, INC., New York, N. Y. Filed Aug. 31, 1945.

Delaire

FOR WRITING PAPER.

Claims use since December 1944.

---

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 478,125. INDUSTRIAL SURVEYS COMPANY, Chicago, Ill. Filed Jan. 1, 1945.

THE NATIONAL CONSUMER PANEL

No registration rights are claimed for the word "Consumer" apart from the mark shown.

FOR MARKET AND CONSUMER REPORTS AND ANALYSES.

Claims use since Nov. 1, 1941.

Ser. No. 486,361. THE 52 ASSOCIATION INC., New York, N. Y. Filed July 27, 1945.



FOR MONTHLY BULLETIN RELATING TO ORGANIZATION ACTIVITIES AND PURPOSES.
Claims use since Feb. 5, 1945.

## CLASS 39

### CLOTHING

Ser. No. 486,242. COMMERCE MANUFACTURING COMPANY, INC., Commerce, Ga. Filed July 25, 1945.

L&D BEST

No claim is made to the use of the word "Best" apart from the mark as shown.
FOR OVERALLS AND MEN'S PANTS.
Claims use since July 9, 1945.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 473,209. WM. ANDERSON TEXTILE MFG. CO., New York, N. Y. Filed Aug. 12, 1944.

Wm. Anderson

The mark is the facsimile signature of the founder of applicant's business.
FOR PRINTED COTTON PIECE GOODS.
Claims use since 1911.

Ser. No. 488,450. CHATHAM MANUFACTURING COMPANY, Elkin, N. C. Filed Sept. 14, 1945.

"WOOLSHIRE"

FOR BLANKETS MADE OF WOOL, WOOL AND COTTON, OR WOOL, COTTON AND RAYON.
Claims use since Jan. 22, 1945.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 482,560. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa. Filed Apr. 24, 1945.

FAMILY TRAIT RECORDER

FOR DENTAL IMPRESSION TRAYS.
Claims use since Apr. 14, 1945.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 477,391. ALLIED MILLS, INC., Chicago, Ill. Filed Dec. 11, 1944.



Applicant is the owner of Reg. Nos. 241,385 and 342,022.
The lining on the drawing indicates the color red.
FOR DOG FOOD.
Claims use since July 1939.

Ser. No. 484,260. A. S. KAWAMURA, doing business as Sun Marketing Co., Phoenix, Ariz. Filed June 7, 1945.

WESTERN CHIEF

FOR FRESH VEGETABLES.
Claims use since Aug. 12, 1944.



Ser. No. 486,187. ROBERT YOUNG, doing business as The Frances Willard Candy Company, Columbus, Ohio. Filed July 23, 1945.



Frances Willard

The portrait is that of Frances Willard, deceased.
FOR CANDY.
Claims use since July 1, 1911.

Ser. No. 486,206. KARL BAKING COMPANY, Newark, N. J. Filed July 24, 1945.

Dumbarton Oaks

FOR CAKES AND MACAROONS.
Claims use since May 1, 1945.

Ser. No. 486,594. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Aug. 1, 1945.

CADURA

The applicant is the owner of U. S. registration No. 388,633, July 1, 1941.
FOR COFFEE.
Claims use since June 25, 1945.

Ser. No. 487,061. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Aug. 11, 1945.

VANLITE

FOR WHIPPING AND EMULSIFYING AGENT FOR THE FOOD INDUSTRY USED AS AN INGREDIENT OF BAKERY PRODUCTS.
Claims use since July 25, 1945.

Ser. No. 487,411. BESTER PRODUCTS CO., Nashville, Tenn. Filed Aug. 22, 1945.

SAVOROL

FOR POWDERED SEASONING FOR POPCORN.
Claims use since April 1945.

Ser. No. 488,016. CINDERELLA FOODS, Dawson, Ga. Filed Sept. 6, 1945.

Princess Charming

Applicant is the owner of trade-mark registration No. 408,016, dated July 11, 1944.
FOR PEANUT BUTTER.
Claims use since Aug. 1, 1945.

Ser. No. 486,361. THE 52 ASSOCIATION INC., New York, N. Y. Filed July 27, 1945.

52

FOR MONTHLY BULLETIN RELATING TO ORGANIZATION ACTIVITIES AND PURPOSES.
Claims use since Feb. 5, 1945.

## CLASS 39

### CLOTHING

Ser. No. 486,242. COMMERCE MANUFACTURING COMPANY, INC., Commerce, Ga. Filed July 25, 1945.

L&D BEST

No claim is made to the use of the word "Best" apart from the mark as shown.
FOR OVERALLS AND MEN'S PANTS.
Claims use since July 9, 1945.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 473,209. WM. ANDERSON TEXTILE MFG. CO., New York, N. Y. Filed Aug. 12, 1944.

Mrs. Anderson

The mark is the facsimile signature of the founder of applicant's business.
FOR PRINTED COTTON PIECE GOODS.
Claims use since 1911.

Ser. No. 488,450. CHATHAM MANUFACTURING COMPANY, Elkin, N. C. Filed Sept. 14, 1945.

"WOOLSHIRE"

FOR BLANKETS MADE OF WOOL, WOOL AND COTTON, OR WOOL, COTTON AND RAYON.
Claims use since Jan. 22, 1945.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 482,560. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa. Filed Apr. 24, 1945.

FAMILY TRAIT
RECORDER

FOR DENTAL IMPRESSION TRAYS.
Claims use since Apr. 14, 1945.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 477,391. ALLIED MILLS, INC., Chicago, Ill. Filed Dec. 11, 1944.



Applicant is the owner of Reg. Nos. 241,385 and 342,922.
The lining on the drawing indicates the color red.
FOR DOG FOOD.
Claims use since July 1939.

Ser. No. 484,260. A. S. KAWAMURA, doing business as Sun Marketing Co., Phoenix, Ariz. Filed June 7, 1945.

WESTERN CHIEF

FOR FRESH VEGETABLES.
Claims use since Aug. 12, 1944.



Ser. No. 486,187. ROBERT YOUNG, doing business as The Frances Willard Candy Company, Columbus, Ohio. Filed July 23, 1945.



Frances Willard

The portrait is that of Frances Willard, deceased.
FOR CANDY.
Claims use since July 1, 1911.

Ser. No. 486,206. KARL BAKING COMPANY, Newark, N. J. Filed July 24, 1945.

Dumbarton Cakes

FOR CAKES AND MACAROONS.
Claims use since May 1, 1945.

Ser. No. 486,594. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Aug. 1, 1945.

CADURA

The applicant is the owner of U. S. registration No. 388,633, July 1, 1941.
FOR COFFEE.
Claims use since June 25, 1945.

Ser. No. 487,061. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Aug. 11, 1945.

VANLITE

FOR WHIPPING AND EMULSIFYING AGENT FOR THE FOOD INDUSTRY USED AS AN INGREDIENT OF BAKERY PRODUCTS.
Claims use since July 25, 1945.

Ser. No. 487,411. BESTER PRODUCTS CO., Nashville, Tenn. Filed Aug. 22, 1945.

SAVOROL

FOR POWDERED SEASONING FOR POPCORN.
Claims use since April 1945.

Ser. No. 488,016. CINDERELLA FOODS, Dawson, Ga. Filed Sept. 6, 1945.

Princess Charming

Applicant is the owner of trade-mark registration No. 408,016, dated July 11, 1944.
FOR PEANUT BUTTER.
Claims use since Aug. 1, 1945.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 25, 1945

418,441. TOY AIRCRAFT CONSTRUCTION KITS AND PARTS THEREOF. JOE OTT MANUFACTURING CO., Chicago, Ill.
Filed December 8, 1943. Serial No. 465,633. PUBLISHED OCTOBER 16, 1945. Class 22.

418,442. BURNT CLAY BRICK, STEPPING TILE, HOLLOW TILE, AND ROUGHING TILE. COLUMBIA BRICK WORKS, Portland, Oreg.
Filed June 7, 1944. Serial No. 470,963. PUBLISHED OCTOBER 9, 1945. Class 12.

418,443. BURNT CLAY BRICK, STEPPING TILE, HOLLOW TILE, AND ROUGHING TILE. COLUMBIA BRICK WORKS, Portland, Oreg.
Filed June 7, 1944. Serial No. 470,964. PUBLISHED OCTOBER 9, 1945. Class 12.

418,444. DEVICES EQUIPPED WITH DENTAL FLOSS FOR PICKING THE TEETH. JOSEPH E. DEMBENSKI, New York, N. Y.
Filed June 14, 1944. Serial No. 471,208. PUBLISHED OCTOBER 16, 1945. Class 44.

418,445. CAMERA SHUTTERS. ILEX OPTICAL COMPANY, Rochester, N. Y.
Filed July 6, 1944. Serial No. 471,948. PUBLISHED OCTOBER 16, 1945. Class 26.

418,446. CAMERA SHUTTERS. ILEX OPTICAL COMPANY, Rochester, N. Y.
Filed July 6, 1944. Serial No. 471,949. PUBLISHED OCTOBER 16, 1945. Class 26.

418,447. SANITARY NAPKINS. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed August 14, 1944. Serial No. 473,255. PUBLISHED OCTOBER 16, 1945. Class 44.

418,448. PAPERBOARD CARTONS AND BOXES. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed August 16, 1944. Serial No. 473,310. PUBLISHED OCTOBER 16, 1945. Class 2.

418,449. PLASTIC PHOTOGRAPH FRAMES. VARGISH AND COMPANY, New York, N. Y.
Filed September 13, 1944. Serial No. 474,180. PUBLISHED OCTOBER 16, 1945. Class 32.

418,450. MECHANICALLY RECORDED SOUND RECORDS. WOR PROGRAM SERVICE, INC., doing business as WOR Recording Studios, New York, N. Y.
Filed October 20, 1944. Serial No. 475,553. PUBLISHED OCTOBER 16, 1945. Class 36.

418,451. TOILET WATER. CHARLES OF THE RITZ, INC., New York, N. Y., assignor to Associated Products, Inc., Chicago, Ill., a corporation of Illinois
Filed October 30, 1944. Serial No. 475,834. PUBLISHED FEBRUARY 20, 1945. Class 6.

418,452. FINNED TUBING FOR HEAT EXCHANGE PURPOSES. EXTENDED SURFACE, INC., Brooklyn, N. Y.
Filed November 1, 1944. Serial No. 475,947. PUBLISHED JULY 3, 1945. Class 34.

418,453. ADJUSTABLE SEATS, ADJUSTABLE CHAIRS, CONVERTIBLE PIECES OF FURNITURE CAPABLE OF BEING CONVERTED INTO A BED, A CHAIR OR SETTEE AND CUSHIONS FOR USE WITH THE ABOVE DESCRIBED ARTICLES. JOHN M. DORTON, Bonner Springs, Kans.
Filed December 2, 1944. Serial No. 477,152. PUBLISHED OCTOBER 16, 1945. Class 32.

418,454. LEATHER KITS FOR LIPSTICKS, POWDERS, ROUGE AND POWDER PUFFS SOLD WITHOUT THE SAID COSMETIC ARTICLES, CHANGE PURSES, ETC. QUALITY PRODUCTS CO., INC., New York, N. Y.
Filed December 9, 1944. Serial No. 477,378. PUBLISHED OCTOBER 16, 1945. Class 3.

418,455. ARTIFICIAL BAITS, BAITS AND TACKLE BOXES, BAIT AND MINNOW PAILS, BUTT CAPS, CHUGGING RIGS, CORK BALL, CRAB TRAPS, DOCK BELLS, ETC. EDW. K. TRYON COMPANY, Philadelphia, Pa.
Filed December 12, 1944. Serial No. 477,481. PUBLISHED OCTOBER 16, 1945. Class 22.

418,456. ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill.
Filed December 18, 1944. Serial No. 477,700. PUBLISHED OCTOBER 16, 1945. Class 26.

418,457. ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill.
Filed December 18, 1944. Serial No. 477,701. PUBLISHED OCTOBER 16, 1945. Class 26.

418,458. ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill.
Filed December 18, 1944. Serial No. 477,702. PUBLISHED OCTOBER 16, 1945. Class 26.

418,459. PUZZLE IN WHICH THE AIM OR OBJECT IS TO REMOVE A PEG FROM A TAPE WITHOUT FORCE OR CUTTING THE TAPE. KENNETH S. FRANKE, doing business as Kenard Novelty Co., New York, N. Y.
Filed December 30, 1944. Serial No. 478,076. PUBLISHED OCTOBER 16, 1945. Class 22.

418,460. FACE POWDER, FACE MAKE-UP, LIPSTICK, ROUGE, CREAMS FOR THE HANDS AND FACE, AND NAIL POLISH AND NAIL LACQUER FOR FINGER NAILS. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill., now by change of name Associated Products, Inc.
Filed March 8, 1945. Serial No. 480,641. PUBLISHED OCTOBER 2, 1945. Class 6.

418,461. ADHESIVE CEMENT FOR BONDING CORK, LEATHER, LINOLEUM, METAL, PLASTICS, WALLBOARD, AND WOOD. HERBERT J. HERBERT, New York, N. Y.
Filed April 6, 1945. Serial No. 481,786. PUBISHED OCTOBER 16, 1945. Class 5.

418,462. CONVERTIBLE SEATS FOR SMALL CHILDREN. TALLY-HO MANUFACTURING CO., New York, N. Y.
Filed April 6, 1945. Serial No. 481,810. PUBLISHED OCTOBER 16, 1945. Class 32.

418,463. HOOK ADAPTERS OF COMMON METAL FOR PASSING ON TO OR OVER PLAIN BOLTS FOR THE PURPOSE OF ADAPTING THEM FOR USE AS HOOK BOLTS. HENRY LINDSAY LIMITED, Bradford, England.
Filed April 18, 1945. Serial No. 482,292. PUBLISHED OCTOBER 16, 1945. Class 13.

418,464. GREETING CARDS. WILLIAMSBURG PUBLISHING CO. INC., New York, N. Y.
Filed April 20, 1945. Serial No. 482,406. PUBLISHED OCTOBER 2, 1945. Class 38.





418,465. DOLLS. LYDIA JEDWABNIK, doing business as Artistic Dolls Studio, New York, N. Y.
Filed May 10, 1945. Serial No. 483,182. PUBLISHED OCTOBER 16, 1945. Class 22.

418,466. COMPACTS FOR CONTAINING COSMETICS MADE OF PLASTIC AND SOLD IN TRADE EMPTY. PRECISION SPECIALTIES, Los Angeles, Calif.
Filed May 14, 1945. Serial No. 483,841. PUBLISHED OCTOBER 16, 1945. Class 2.

418,467. CONTAINERS FOR MOTION PICTURE FILMS, MADE OF METAL, WOOD, AND LEATHER AND COMBINATIONS THEREOF. CARL DUDLEY, Beverly Hills, Calif.
Filed May 18, 1945. Serial No. 483,517. PUBLISHED OCTOBER 16, 1945. Class 2.

418,468. PAYROLL COMPUTING MACHINES. JACOB HIRSCH, doing business as Bates Accounting Forms Co., New York, N. Y.
Filed May 23, 1945. Serial No. 483,688. PUBLISHED OCTOBER 16, 1945. Class 26.

418,469. TOY DOLLS. M. AILETCHER & Co., Lakewood, N. J.
Filed May 31, 1945. Serial No. 484,005. PUBLISHED OCTOBER 16, 1945. Class 22.

418,470. KNITTED PIECE GOODS MADE OF COTTON, ACETATE RAYON AND COMBINATIONS THEREOF. BLUE RIDGE TEXTILE CO. INC., Bangor, Pa.
Filed June 8, 1945. Serial No. 484,290. PUBLISHED SEPTEMBER 25, 1945. Class 42.

418,471. SHEETS, PILLOW CASES, TABLE LINENS, TOWELS, BEDSPREADS. INTERSTATE DRY GOODS SYNDICATE, Huntington, W. Va.
Filed June 9, 1945. Serial No. 484,346. PUBLISHED SEPTEMBER 25, 1945. Class 42.

418,472. PAPER CUPS. FRANK M. SAYFORD CO. INC., Brooklyn, N. Y.
Filed June 11, 1945. Serial No. 484,429. PUBLISHED OCTOBER 16, 1945. Class 2.

418,473. PERIODICAL PUBLICATION DEVOTED TO FASHIONS. JOSEPH CLYNE, New York, N. Y.
Filed June 13, 1945. Serial No. 484,481. PUBLISHED OCTOBER 2, 1945. Class 38.

418,474. PERIODICAL MAGAZINES PUBLISHING COMIC STRIPS AND SHORT STORIES. KEN CROSSEN, doing business as Fact & Fiction Publications, New York, N. Y.
Filed June 13, 1945. Serial No. 484,484. PUBLISHED OCTOBER 2, 1945. Class 38.

418,475. COMBINATION CONTAINER AND DEVICE FOR DELIVERING MEASURED AMOUNTS OF SOLID, SEMI-SOLID, OR GELATINOUS MATERIALS, ETC. HORTON & CONVERSE, Los Angeles, Calif.
Filed June 13, 1945. Serial No. 484,489. PUBLISHED OCTOBER 16, 1945. Class 44.

418,476. MANUAL CONTROL VALVES AND SOLENOID CONTROL VALVES, LIQUID AND GAS STRAINERS AND FILTERS, AND DEHYDRATORS, USED IN REFRIGERATION EQUIPMENT. STANDARD MACHINE & MANUFACTURING CO., St. Louis, Mo.
Filed June 12, 1945. Serial No. 484,502. PUBLISHED OCTOBER 16, 1945. Class 31.

418,477. FINGER TAPE FOR ALL SPORTS USE, INCLUDING GOLF, BASEBALL, TENNIS, ETC. JOHN W. STEVENS, Sparkill, N. Y.
Filed June 18, 1945. Serial No. 484,716. PUBLISHED OCTOBER 16, 1945. Class 22.

418,478. PIECE GOODS FABRICATED FROM MIXTURES OF RAYON AND FUR, AND RAYON, FUR, AND WOOL. UNIQUE FIBERS, INC., New York, N. Y.
Filed June 22, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 484,918. PUBLISHED SEPTEMBER 25, 1945. Class 42.

418,479. PHOTOGRAPHIC CAMERAS AND PHOTOGRAPHIC ENLARGERS. BURKE AND JAMES, INC., Chicago, Ill.
Filed June 23, 1945. Serial No. 484,933. PUBLISHED OCTOBER 16, 1945. Class 26.

418,480. DUFFLE BAGS, KNAPSACKS, ROVER PACKS OF THE TYPE CONSTRUCTED IN THE MANNER OF A DUFFLE BAG AND PROVIDED WITH A PAIR OF SHOULDER STRAPS, UTILITY BAGS, MUSETTE BAGS, SCHOOL BAGS, AND SEA BAGS. EMPIRE SPORTING GOODS MANUFACTURING CO., INC., New York, N. Y.
Filed July 7, 1945. Serial No. 485,529. PUBLISHED OCTOBER 16, 1945. Class 3.

418,481. BRANDY. PADRE VINEYARD COMPANY, Los Angeles, Calif.
Filed July 7, 1945. Serial No. 485,538. PUBLISHED OCTOBER 9, 1945. Class 49.

418,482. WINES. PADRE VINEYARD COMPANY, Los Angeles, Calif.
Filed July 7, 1945. Serial No. 485,539. PUBLISHED OCTOBER 9, 1945. Class 47.

418,483. SKIS AND SKI BINDINGS AND PARTS THEREOF. THE GROSWOLD SKI COMPANY, INC., Denver, Colo.
Filed July 9, 1945. Serial No. 485,570. PUBLISHED OCTOBER 16, 1945. Class 22.

418,484. MONTHLY MAGAZINE. THE AMERICAN RADIO RELAY LEAGUE, INC., West Hartford, Conn.
Filed July 10, 1945. Serial No. 485,622. PUBLISHED OCTOBER 9, 1945. Class 38.

418,485. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. DR. PEPPER COMPANY, Dallas, Tex.
Filed July 10, 1945. Serial No. 485,629. PUBLISHED OCTOBER 2, 1945. Class 45.

418,486. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS FOR MAKING THE SAME. DR. PEPPER COMPANY, Dallas, Tex.
Filed July 10, 1945. Serial No. 485,630. PUBLISHED OCTOBER 2, 1945. Class 45.

418,487. ACRYLIC TEETH. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill.
Filed July 13, 1945. Serial No. 485,758. PUBLISHED OCTOBER 16, 1945. Class 44.

418,488. CARPETS AND RUGS. BELGORDOS INC., New York, N. Y.
Filed July 14, 1945. Serial No. 485,811. PUBLISHED SEPTEMBER 25, 1945. Class 42.

418,489. DOLLS. MAE B. MURPHY, Chicago, Ill.
Filed July 16, 1945. Serial No. 485,879. PUBLISHED OCTOBER 16, 1945. Class 22.

418,490. ARCH SUPPORTS. THE SCHOLL MFG. CO., INC., Chicago, Ill.
Filed July 21, 1945. Serial No. 486,121. PUBLISHED OCTOBER 16, 1945. Class 44.

418,491. BREWERS' GRITS USED FOR MAKING MALT BEVERAGES. KELLOGG COMPANY, Battle Creek, Mich.
Filed July 25, 1945. Serial No. 486,260. PUBLISHED OCTOBER 9, 1945. Class 48.

418,492. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, PROTEIN FIBRES AND MIXTURES THEREOF. CREST FABRICS CORP., New York, N. Y.
Filed July 27, 1945. Serial No. 486,354. PUBLISHED SEPTEMBER 25, 1945. Class 42.

418,493. COATED FABRICS. TEXTILEATHER CORPORATION, Toledo, Ohio.
Filed August 30, 1945. Serial No. 487,811. Class 42.

# TRADE-MARK REGISTRATIONS RENEWED

45,197. **BANK NOTES.** PERIODICAL IN MAGAZINE FORM. Registered Aug. 8, 1905. LEVEY BROS. & Co. Re-renewed Aug. 8, 1945, to Shield Press, Incorporated, Indianapolis, Ind., a corporation of Indiana. Class 38.

45,469. **REPRESENTATION OF THE UPPER HALF OF MAN'S HEAD WEARING A CAP.** REMEDY FOR COUGHS, COLDS, CROUP, BRONCHITIS, AND LUNG TROUBLES. Registered Aug. 22, 1905. CAPUDINE CHEMICAL COMPANY, Raleigh, N. C., a corporation of North Carolina. Re-renewed Aug. 22, 1945. Class 6.

46,254. **MEXICAN PECAN—OKAS.** CANDY. Registered Sept. 12, 1905. WALTER BROWNLEY. Re-renewed Sept. 12, 1945, to Brownley's, Washington, D. C., a trust estate. Class 46.

46,468. **"PHOENIX," ETC. AND DRAWING.** LEATHER BELTING. Registered Sept. 19, 1905. NEW YORK LEATHER BELTING CO., New York, N. Y. Re-renewed Sept. 19, 1945, to Groton & Knight Company, Worcester, Mass., a corporation of Massachusetts. Class 35.

46,477. **C. A. P.** POWDERED ACID PHOSPHATE OF LIME. Registered Sept. 19, 1905. PROVIDENT CHEMICAL WORKS. Re-renewed Sept. 19, 1945, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware. Class 6.

46,851. **H. T.** POWDERED ACID PHOSPHATE OF LIME. Registered Oct. 10, 1905. PROVIDENT CHEMICAL WORKS. Re-renewed Oct. 10, 1945, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware. Class 6.

48,569. **"TK," ETC. AND DRAWING.** BITTER WINES. Registered Jan. 2, 1906. JOSEPH TRINER. Re-renewed Jan. 2, 1946, to Joseph Triner Corporation, Chicago, Ill., a corporation of Illinois. Class 47.

48,928. **REPRESENTATION OF A FOUR-LEAF CLOVER.** POCKET-KNIVES AND RAZORS. Registered Jan. 16, 1906. ADOLPH KASTOR & BROS. Re-renewed Jan. 16, 1946, to Adolph Kastor & Bros., Inc., New York, N. Y., a corporation of New York. Class 23.

49,065. **REPRESENTATION OF TWO ENTWINED WINGED SERPENTS, ETC.** COTTON PIECE GOODS. Registered Jan. 23, 1906. CLARENCE WHITMAN & Co. Re-renewed Jan. 23, 1946, to Clarence Whitman & Sons, Inc., New York, N. Y., a corporation of New York. Class 42.

49,460. **"ARCADE" AND DRAWING.** FILES AND RASPS. Registered Feb. 6, 1906. ARCADE FILE WORKS, Anderson, Ind. Re-renewed Feb. 6, 1946, to Nicholson File Company, Providence, R. I., a corporation of Rhode Island. Class 23.

49,750. **SHAWMUT.** COTTON PIECE GOODS. Registered Feb. 13, 1906. TREMONT & SUFFOLK MILLS, Lowell, Mass. Re-renewed Feb. 13, 1946, to Nashua Manufacturing Company, Boston, Mass., a corporation of New Hampshire. Class 42.

49,769. **"FORBES SILVER CO. QUADRUPLE" AND DESIGN.** SILVER-PLATED HOLLOW WARE. Registered Feb. 13, 1906. INTERNATIONAL SILVER COMPANY, Meriden, Conn., a corporation of New Jersey. Re-renewed Feb. 13, 1946. Class 28.

49,825. **BARBOUR SILVER CO.** SILVER-PLATED HOLLOW WARE. Registered Feb. 20, 1906. INTERNATIONAL SILVER COMPANY, Meriden, Conn., a corporation of New Jersey. Re-renewed Feb. 20, 1946. Class 28.

50,091. **"HELIX" AND DRAWING.** NEEDLES. Registered Mar. 6, 1906. CHARLES H. CROWLEY, New York, N. Y. Re-renewed Mar. 6, 1946. Class 40.

50,145. **"CARTER'S RAILROAD OVERALLS" AND DRAWING.** OVERALLS. Registered Mar. 6, 1906. H. W. CARTER & SONS, Lebanon, N. H., a firm. Re-renewed Mar. 6, 1946. Class 39.

50,166. **"A. W. CO." AND DRAWING.** WOOLEN CLOTHS. Registered Mar. 6, 1906. AMERICAN WOOLEN COMPANY, Boston, Mass. Re-renewed Mar. 6, 1946, to American Woolen Company, Boston, Mass. and New York, N. Y., a corporation of Massachusetts. Class 42.

50,291. **"RED CROSS BRAND" AND DESIGN.** CANNED VEGETABLES AND FRUITS. Registered Mar. 6, 1906. STEPHEN J. SENECA. Re-renewed Mar. 6, 1946, to Chas. B. Silver & Son, Havre de Grace, Md., a partnership. Class 46.

50,295. **REX.** LARD. Registered Mar. 6, 1906. THE CUDAHY PACKING CO., Chicago, Ill. and South Omaha, Nebr. Re-renewed Mar. 6, 1946, to The Cudahy Packing Company, Chicago, Ill., a corporation of Maine. Class 46.

50,882. **"NICHOLSON U. S. A." AND DRAWING.** FILES AND RASPS AND HANDLES AND HOLDERS THEREFOR. Registered Apr. 3, 1906. NICHOLSON FILE COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed Apr. 3, 1946. Class 23.

201,149. **"WAVE BRAND" ETC. AND DRAWING.** CANNED FISH IN OLIVE OIL, SALT, VINEGAR, AND IN PICKLE. Registered July 21, 1925. JOAQUIN IRIONDO AZUMENDI, Ondarroa, Spain. Renewed July 21, 1945. Class 46.

203,402. **RED CAP.** FURNITURE POLISH. Registered Sept. 15, 1925. C. M. KIMBALL COMPANY, Winthrop, Mass. Renewed Sept. 15, 1945, to C. M. Kimball Company, Boston, Mass., a corporation of Massachusetts. Class 16.

203,403. **REPRESENTATION OF BOTTLE CAP COLORED RED.** FURNITURE POLISH. Registered Sept. 15, 1925. C. M. KIMBALL COMPANY, Winthrop, Mass. Renewed Sept. 15, 1945, to C. M. Kimball Company, Boston, Mass., a corporation of Massachusetts. Class 16.

203,624. **CRYSTALLOID.** TRANSPARENT GELATINE PAPER. Registered Sept. 22, 1925. MID-STATES GUMMED PAPER CO., Chicago, Ill. Renewed Sept. 22, 1945, to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware. Class 37.

204,094. **"WILCKES MARTIN WILCKES" ETC. AND DRAWING.** LAMPBLACK AND CARBON-GAS BLACK. Registered Oct. 6, 1925. WILCKES MARTIN WILCKES COMPANY, New York, N. Y. Renewed Oct. 6, 1945, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware. Class 1.

204,204. **"BARCO" AND DESIGN.** TARTARIC AND CITRIC ACIDS, ALCOHOL, DENATURED, BAKING POWDER, BLUING, AMMONIA, GLYCERIN, AND CREAM OF TARTAR. Registered Oct. 13, 1925. B. A. RAILTON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Oct. 13, 1945. Classes 6 and 46.

204,239. **VACATION.** TEXTILE ARTICLES—NAMELY, HOSIERY. Registered Oct. 13, 1925. BEAR BRAND HOSIERY CO., Chicago, Ill. Renewed Oct. 13, 1945, to Bear Brand Hosiery Co., Kankakee and Chicago, Ill., a corporation of Illinois. Class 39.

204,766. **SENTINEL.** BABBITT, LEAD, BRONZE, AND BRASS. Registered Oct. 27, 1925. FERRE, INC., St. Louis, Mo. Renewed Oct. 27, 1945, to Aaron Ferer & Sons Co., Omaha, Nebr., a corporation of Nebraska. Class 14.

204,934. **"SUNNY BARCO" AND DESIGN.** PAPER ITEMS—NAMELY, DOILIES, MANILLA PAPER, PAPER NAPKINS, PAPER TOWELS, WATERPROOF WRAPPING PAPER, WAX PAPER, WRAPPING PAPER. Registered Oct. 27, 1925. B. A. RAILTON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Oct. 27, 1945. Class 37.





206,027. **"CHAMPION" AND DRAWING.** NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. Registered Nov. 24, 1925. PHILLIPS BROTHERS. Renewed Nov. 24, 1945, to The Phillips Brothers Bottling Company, Baltimore, Md., a corporation of Maryland. Class 45.

206,146. **"CHAMPION" AND DRAWING.** MALT BEVERAGES. Registered Nov. 24, 1925. PHILLIPS BROTHERS. Renewed Nov. 24, 1945, to The Phillips Brothers Bottling Company, Baltimore, Md., a corporation of Maryland. Class 48.

206,612. **ASPIR-GRAN.** ACETYL SALICYLIC ACID. Registered Dec. 8, 1925. MONSANTO CHEMICAL WORKS. Renewed Dec. 8, 1945, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware. Class 6.

206,613. **SANTAMINE, ETC.** GERMICIDES, DISINFECTANTS, DEODORANTS, AND CHLORAMINE T. Registered Dec. 8, 1925. MONSANTO CHEMICAL WORKS. Renewed Dec. 8, 1945, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware. Class 6.

206,629. **"MENTHOLDYNE KILLS" AND DRAWING.** ANODYNE ANTISEPTIC. Registered Dec. 8, 1925. ALDUS ARTHUR HOOPMAN, doing business as The Mentholdyne Company. Renewed Dec. 8, 1945, to Albert F. Cottin, Seattle, Wash. Class 6.

206,886. **ARKTITE.** ELECTRIC PLUGS AND PLUG RECEPTACLES. Registered Dec. 15, 1925. CROUSE-HINDS COMPANY, Syracuse, N. Y., a corporation of New York. Renewed Dec. 15, 1945. Class 21.

207,236. **"MAVOLINE" AND DESIGN.** LUBRICATING OILS, GREASES AND COMPOUNDS IN THE NATURE OF LUBRICANTS. Registered Dec. 22, 1925. INDIAN REFINING COMPANY, INCORPORATED, Lawrenceville, Ill. and New York, N. Y. Renewed Dec. 22, 1945, to The Texas Company, New York, N. Y., a corporation of Delaware. Class 15.

207,302. **TRIPLE-O.** OVERALLS. Registered Dec. 29, 1925. ALEXANDER BROS. COMPANY, Savannah, Ga., a corporation of Georgia. Renewed Dec. 29, 1945. Class 39.

207,506. **"KLOK-LAX" AND DRAWING.** LAXATIVE CATHARTIC TABLETS. Registered Jan. 5, 1926. THE SWIFT SPECIFIC COMPANY. Renewed Jan. 5, 1946, to S. S. S. Co., Atlanta, Ga., a corporation of Georgia. Class 6.

207,675. **REPRESENTATION OF A CIRCLE DESIGN.** PARAFFIN WAX FOR WASHING PURPOSES AND HARNESS OIL. Registered Jan. 5, 1926. STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J. Renewed Jan. 5, 1946, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware. Class 4.

207,933. **CALIBOX.** FRUIT COOKIES. Registered Jan. 12, 1926. SUNNYKLIME FOOD PRODUCTS CO., Minneapolis, Minn. Renewed Jan. 12, 1946, to Charles R. Ulmen, Hollywood, Calif. Class 46.

207,960. **REPRESENTATION OF A RED STAVE IN BARREL.** GUMS, SIZINGS, AND PASTES MADE FROM STARCHES. Registered Jan. 12, 1926. HURON MILLING COMPANY, Harbor Beach, Mich., a corporation of Michigan. Renewed Jan. 12, 1946. Class 5.

208,254. **DURIAN.** WHEAT FLOUR. Registered Jan. 26, 1926. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash., a corporation of Washington. Renewed Jan. 26, 1946. Class 46.

208,406. **RELIANCE.** INNER TUBES FOR PNEUMATIC VEHICLE TIRES, SAID INNER TUBES BEING COMPOSED WHOLLY OR IN PART OF RUBBER. Registered Feb. 2, 1926. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed Feb. 2, 1946. Class 35.

208,409. **"LITTLE SWISS" AND DRAWING.** IMPORTED SWISS GRUYÈRE CHEESE. Registered Feb. 2, 1926. C. E. ZUERCHER & Co., Chicago, Ill., a firm. Renewed Feb. 2, 1946. Class 46.

208,431. **OIL-VENT.** PISTON RINGS. Registered Feb. 2, 1926. PACIFIC PISTON RING CO. Renewed Feb. 2, 1946, to Pacific Piston Ring Company, Los Angeles, Calif., a copartnership. Class 35.

208,471. **"COLLEGE CLUB" AND DRAWING.** COFFEE. Registered Feb. 2, 1926. LEXINGTON COFFEE COMPANY. Renewed Feb. 2, 1946, to S. O. Whitenack, Lexington, Ky. Class 46.

208,487. **PACIFIC.** PISTON RINGS. Registered Feb. 2, 1926. PACIFIC PISTON RING CO. Renewed Feb. 2, 1946, to Pacific Piston Ring Company, Los Angeles, Calif., a copartnership. Class 35.

208,686. **TRU-SPAR.** READY-MIXED PAINTS, ENAMELS, STAINS, AND VARNISHES. Registered Feb. 9, 1926. TRUSCON STEEL COMPANY, doing business as The Truscon Laboratories, Detroit and Hamtramck, Mich. Renewed Feb. 9, 1946, to Truscon Laboratories, Inc., Detroit, Mich., a corporation of Michigan. Class 16.

208,762. **REPRESENTATION OF ATLAS ON PACKING BOX.** PACKING CASES, SHIPPING CASES, SHOOKS, KNOCKDOWN BOXES, FURNITURE BOXES, AND BUTTER TUBS. Registered Feb. 9, 1926. ATLAS PLYWOOD CORPORATION, Boston, Mass., a corporation of Massachusetts. Renewed Feb. 9, 1946. Class 2.

208,790. **"OATEX."** TOILET PREPARATION—NAMELY, FACE CREAM. Registered Feb. 9, 1926. THE MATH-OL INFLAMMACINE CO., INC., Rochester, N. Y., a corporation of New York. Renewed Feb. 9, 1946. Class 6.

208,886. **RAYTHEON.** RECTIFIER TUBES. Registered Feb. 9, 1926. AMERICAN APPLIANCE CO., Cambridge, Mass. Renewed Feb. 9, 1946, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware. Class 21.

209,071. **OLD FAITHFUL.** PAPER-WRAPPED PENCILS, CRAYONS, CHALK CRAYONS, PRESSED CRAYONS, WAX CRAYONS, PASTEL CRAYONS, AND PENCILS. Registered Feb. 16, 1926. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed Feb. 16, 1946. Class 37.

209,108. **"LOOMITE" AND DESIGN.** SPECIAL TALC, USED PRIMARILY IN WATERPROOFING AND STRENGTHENING CONCRETE. Registered Feb. 16, 1926. W. H. LOOMIS TALC CORPORATION, Gouverneur, N. Y., a corporation of New York. Renewed Feb. 16, 1946. Class 12.

209,297. **BRIOSCHI.** EFFERVESCENT BEVERAGE SALTS. Registered Feb. 23, 1926. ACHILLE BRIOSCHI & Co. INC., New York, N. Y., a corporation of New York. Renewed Feb. 23, 1946. Class 6.

209,298. **"A B" IN MONOGRAM AND DRAWING.** EFFERVESCENT BEVERAGE SALTS. Registered Feb. 23, 1926. ACHILLE BRIOSCHI & Co. INC., New York, N. Y., a corporation of New York. Renewed Feb. 23, 1946. Class 6.

209,299. **"COLGATE'S HANDY GRIP" ETC. AND DESIGN.** SHAVING SOAP AND SHAVING STICK. Registered Feb. 23, 1926. COLGATE & COMPANY. Renewed Feb. 23, 1946, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

209,300. **"LORETTE MILLS" AND DRAWING.** COTTON PIECE GOODS—VIZ, SHEETINGS. Registered Feb. 23, 1926. WHITNEY MFG. Co., Whitney, S. C. Renewed Feb. 23, 1946, to Deering, Milliken & Co. Inc., New York, N. Y., a corporation of New York. Class 42.

209,328. **7-11.** WHEAT FLOUR. Registered Feb. 23, 1926. HURST-BOILLIN CO., Clarksville, Tenn. Renewed Feb. 23, 1946, to Kellogg Company, Battle Creek, Mich., a corporation of Delaware. Class 46.

209,346. **"MA-MADE BREAD ETC." AND DESIGN.** BREAD. Registered Feb. 23, 1926. FIRCH BAKING COMPANY, INC., Erie, Pa., a corporation of Pennsylvania. Renewed Feb. 23, 1946. Class 46.

209,440. **CHARM SHOP.** HOUSEHOLD FURNITURE—NAMELY, TABLES, CHAIRS, DESKS, TELEPHONE STANDS, STOOLS, CHESTS, FRAMES, MIRRORS, CABINETS, AND AQUARIUM STANDS. Registered Feb. 23, 1926. L. BEMBERGER & CO., Newark, N. J., a corporation of New Jersey. Renewed Feb. 23, 1946. Class 32.

209,496. **MIKE KINNEY.** PAMPHLETS AND PERIODICALS PUBLISHED FROM TIME TO TIME. Registered Feb. 23, 1926. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Feb. 23, 1946. Class 38.

209,533. **"REDBIRD" AND DRAWING.** FERTILIZERS. Registered Feb. 23, 1926. SOUTHERN FERTILISER & CHEMICAL COMPANY, Savannah, Ga., a corporation of Georgia. Renewed Feb. 23, 1946. Class 10.

209,661. **DANDY.** SEEDS—NAMELY, TIMOTHY, CLOVER, ALSIKE, ALFALFA, RED TOP, BLUE GRASSES, RAPE, VETCHES, AMBER CANE, PEAS, BEANS, MILLETS, POP CORN, GRASS SEEDS, AND GRASS-SEED MIXTURES, SEED CORN, AND SEED GRAINS. Registered Mar. 2, 1926. THE STANFORD SEED COMPANY, INC., Buffalo, N. Y., a corporation of New York. Renewed Mar. 2, 1946. Class 1.

209,665. **"FLOOR-SHINE" AND DRAWING.** PAINT ENAMELS, PASTE AND READY-MIXED PAINTS, VARNISH, VARNISH STAINS, GOLD AND ALUMINUM PIGMENTS, PREPARED LIQUID SHELLAC, WOODWORK AND FURNITURE POLISH, OILS FOR DRESSING WOODWORK, AND FLOOR AND FURNITURE WAX. Registered Mar. 2, 1926. FLOOR SHINE PAINT & VARNISH COMPANY. Renewed Mar. 2, 1946, to Grace L. Scott, St. Louis, Mo. Class 16.

209,668. **ALBAPOL.** CLEANSER AND POLISHER FOR VARNISHED AND ENAMELED SURFACES IN GENERAL, INCLUDING AUTOMOBILES, FURNITURE, AND WOODWORK. Registered Mar. 2, 1926. L. C. SMITH & CO., Vinalhaven, Maine, a corporation of Maine. Renewed Mar. 2, 1946. Class 16.

209,744. **HUMYDROLE.** HUMIDIFYING CHEMICAL COMPOUND. Registered Mar. 2, 1926. ATMOS PRODUCTS CORPORATION. Renewed Mar. 2, 1946, to Mortimer J. Stammelman, doing business as The Atmos Products Co., New York, N. Y. Class 6.

209,747. **"OUTLAW FOR MEN WHO RIDE HARD" AND DRAWING.** RIDING PANTS OR RIDING TROUSERS. Registered Mar. 2, 1926. A. B. FRANK COMPANY, San Antonio, Tex., a corporation of Texas. Renewed Mar. 2, 1946. Class 39.

209,758. **GREYTEX.** COTTON PIECE GOODS. Registered Mar. 2, 1926. J. L. STIFEL & SONS. Renewed Mar. 2, 1946, to J. L. Stifel & Sons, Inc., Wheeling, W. Va., a corporation of West Virginia. Class 42.

209,773. **"HEISE'S FEEDS" AND DESIGN.** HORSE AND DAIRY FEED, STOCK FEED, POULTRY FEED, AND PEARL MEAL. Registered Mar. 2, 1926. HEISE BROTHERS, Orleans, Ind., a firm. Renewed Mar. 2, 1946. Class 46.

209,802. **LAKEVIEW.** SEEDS—NAMELY, TIMOTHY, CLOVER, ALSIKE, ALFALFA, RED TOP, BLUE GRASSES, RAPE, VETCHES, AMBER CANE, PEAS, BEANS, MILLETS, POPCORN, GRASS SEEDS, GRASS-SEED MIXTURES, SEED CORN, AND SEED GRAINS. Registered Mar. 2, 1926. THE STANFORD SEED COMPANY, INC., Buffalo, N. Y., a corporation of New York. Renewed Mar. 2, 1946. Class 1.

209,837. **SUNNYCAL. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT.** Registered Mar. 2, 1926. IRWINDALE CITRUS ASSOCIATION, Irwindale, Calif. Renewed Mar. 2, 1946, to Irwindale Citrus Association, Irwindale, Calif., and Covina, Calif., a corporation of California. Renewed Mar. 2, 1946. Class 46.

209,869. **DANDY CUP. COFFEE.** Registered Mar. 2, 1926. YOUNG & GRIFFIN COFFEE CO. INC. Renewed Mar. 2, 1946, to Old Dutch Mills, Inc., New York, N. Y., a corporation of New York. Class 46.

209,870. **"DR. WHITES'S" AND DRAWING.** COLD CREAM, BLOOD AND NERVE TONIC, PILLS USED FOR THE TREATMENT OF COLD AND GRIPPE; A PREPARATION USED TO REMOVE CORNS, WARTS, AND CALLI; TOOTHACHE DROPS, FEMALE CONES USED FOR THE TREATMENT OF FEMALE DISORDERS; A PREPARATION USED FOR THE TREATMENT OF SORE AND INFLAMED LUNGS, COUGHS, COLDS, BRONCHITIS, ASTHMA, WHOOPING COUGH, AND SPASMODIC CROUP; AND CERTAIN OTHER NAMED MEDICINAL PREPARATIONS. Registered Mar. 2, 1926. FIRST NATIONAL LABORATORIES, INC., Lehighton, Pa., a corporation of Pennsylvania. Renewed Mar. 2, 1946. Class 6.

209,884. **REPRESENTATION OF ATLAS ON PACKING BOX.** PLYWOOD PANELS AND DIMENSION VENEER. Registered Mar. 2, 1926. ATLAS PLYWOOD CORPORATION, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 2, 1946. Class 12.

209,885. **ATLAS.** PLYWOOD PANELS AND DIMENSION VENEER. Registered Mar. 2, 1926. ATLAS PLYWOOD CORPORATION, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 2, 1946. Class 12.

209,886. **ATLAS.** PACKING CASES, SHIPPING CASES, SHOOKS, KNOCKDOWN BOXES, FURNITURE BOXES, AND BUTTER TUBS. Registered Mar. 2, 1926. ATLAS PLYWOOD CORPORATION, Boston, Mass., a corporation of Massachusetts. Renewed Mar. 2, 1946. Class 2.

209,893. **"SPRING PUTTEES" AND DRAWING.** WRAPPING FOR VEHICLE SPRINGS. Registered Mar. 2, 1926. IRVING FLORMAN, New York, N. Y. Renewed Mar. 2, 1946. Class 35.

209,926. **"GOLDEN CROSS" AND DESIGN.** CANNED CORN. Registered Mar. 2, 1926. BIG STONE CANNING CO. Renewed Mar. 2, 1946, to Big Stone Canning Co., Ortonville, Minn., a corporation of Delaware. Class 46.

209,971. **REPRESENTATION OF A FEMALE FIGURE.** HOSIERY. Registered Mar. 2, 1926. HOLEPROOF HOSIERY CO., Milwaukee, Wis., a corporation of Wisconsin. Renewed Mar. 2, 1946. Class 39.

210,128. **TEDDY.** TEXTILE BLANKETS. Registered Mar. 9, 1926. THE ESMOND MILLS. Renewed Mar. 9, 1946, to The Esmond Mills, Incorporated, Esmond, Smithfield, R. I., a corporation of Delaware. Class 42.

210,129. **CHICK.** TEXTILE BLANKETS. Registered Mar. 9, 1926. THE ESMOND MILLS. Renewed Mar. 9, 1946, to The Esmond Mills, Incorporated, Esmond, Smithfield, R. I., a corporation of Delaware. Class 42.

# REISSUES

## DECEMBER 25, 1945

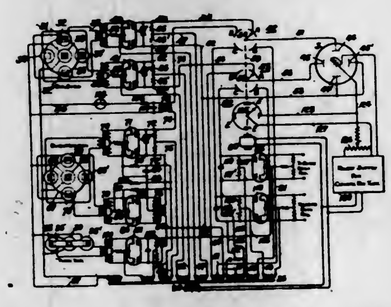
**22,704**

### AIRCRAFT FLIGHT INDICATOR AND CONTROL SYSTEM THEREFOR

**Francis L. Moseley, Osborn, Ohio, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**

**Original No. 2,262,033, dated November 11, 1941, Serial No. 101,274, September 17, 1936. Application for reissue December 14, 1943, Serial No. 514,261**

**42 Claims. (Cl. 250—11)**



30. In the radio-aided guiding of an aircraft carrying a gyroscopic device indicative of an orientation factor, the method which comprises producing on the aircraft a plurality of visual images indicative by their positions with respect to each other of the position and the orientation of the aircraft about a plurality of axes, and controlling the positions of said visual images in accordance with said gyroscopic device and with energy radiated from the landing field.

**22,705**

### PURIFICATION OF AZO DYESTUFFS

**William W. Williams, Albany, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Original No. 2,374,063, dated April 17, 1945, Serial No. 444,885, May 28, 1942. Application for reissue July 6, 1945, Serial No. 603,595**

**7 Claims. (Cl. 260—208)**

1. In the manufacture of trisazo dyestuffs in which an interior monazo component consisting of tetrazotized benzidine mono-coupled in acid medium with an amino-naphthol-disulfonate is thereafter coupled in alkaline medium with the diazo of an arylamine and with an azo dye coupling component of a group consisting of arylamines and hydroxy aryl compounds, the method of removing supervenient constituents which comprises making a suspension of an azo compound thus formed in a water solution in which the hydrogen ion concentration is sufficient to show distinct acidity to Congo red paper, heating at about 93°–97° C. until the supervenient material is extracted from the azo compound, and then filtering for isolating the azo compound, said solution being acidified with an acid of the group consisting of sulfuric, hydrochloric, acetic and phosphoric.

# PLANT PATENTS

## GRANTED DECEMBER 25, 1945

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

**664**

### ROSE PLANT

**Carl George Duehrsen, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.**

**Application December 16, 1944, Serial No. 568,486**

**1 Claim. (Cl. 47—61)**

The new and distinct variety of hybrid tea rose plant substantially as herein shown and described, characterized particularly by its outstanding vigor of growth; its apparently complete resistance to mildew and blackspot; its long, perfectly shaped bud; and its fragrant flowers having a distinctive light yellow color.

**665**

### ROSE PLANT

**Frederick Huber Howard, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.**

**Application December 16, 1944, Serial No. 568,485**

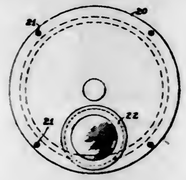
**1 Claim. (Cl. 47—61)**

The new and distinct variety of hybrid tea rose plant herein shown and described, characterized particularly by its intensely healthy and vigorous growth, its free blooming habit; its perfectly formed bud; and its flowers having intense fragrance, distinctive bright pink color and open form.

# PATENTS

GRANTED DECEMBER 25, 1945

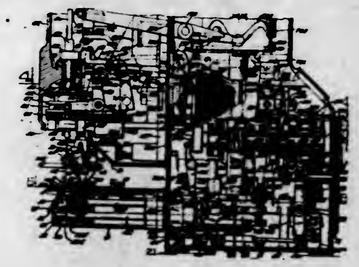
**2,391,377**
**CAMERA SHUTTER**
**Thomas McG. Aiken, Pittsburgh, Pa.**
**Application May 22, 1944, Serial No. 536,663**
**5 Claims. (Cl. 95—60)**



1. Shutter apparatus for use in conjunction with the exposure aperture of a camera, comprising a casing, a pair of shutter members mounted therein for rotation relative to each other, and having openings therethrough that are moved past the aperture during rotation of the members, to permit passage of light through the aperture when the openings are alined with one another at the aperture, a rotatably-mounted shaft, a coiled power spring surrounding the shaft and having its inner end fixedly secured to the shaft, a rotatably-mounted spring housing surrounding the spring and secured to the outer end thereof, transmission gear wheels arranged to transmit rotative movements from the shaft to the shutter members at different relative rates, and to bring said openings into registry at the aperture for an exposure at a predetermined rotative position of the shaft, stop members on the casing and the housing, respectively, arranged to limit rotative movements of the housing in one direction, during turning of the shaft to tension the power spring, but relatively yieldable to allow rotation of the housing in the opposite direction, a stud on the housing, a stud on one of the gear wheels positioned to engage the stud on the housing when the shutter openings have passed out of registry with the aperture, during rotation of the gear wheels by the power spring, thereby rotating the housing in the opposite direction, a light shield, and means automatically operated during movement of the gear wheels following an exposure, for moving the shield from an inoperative position into position to close the aperture.

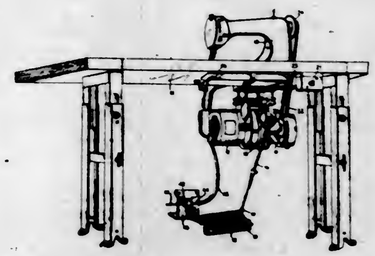
**2,391,378**
**BUTTON WINDING MACHINE**
**Samuel W. Avis, deceased, late of Wellesley, Mass., by Harriette M. Avis, administratrix, Wellesley, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a corporation of Maine**
**Application May 19, 1943, Serial No. 487,568**
**64 Claims. (Cl. 112—110)**

2. In a button winding machine, a support for material to which a button is secured by stitches forming a thread shank, a clamp closable against the material on said support, a thread guide operable to rotate about said thread shank to wind a thread about said shank, and also move in the direction of its rotary axis to distribute the thread



windings over said shank, and means to operate said guide while said clamp is closed.

**2,391,379**
**SEWING MACHINE**
**Hardy L. Bagwell, Ware Shoals, S. C., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application November 21, 1942, Serial No. 466,439**
**3 Claims. (Cl. 112—218)**

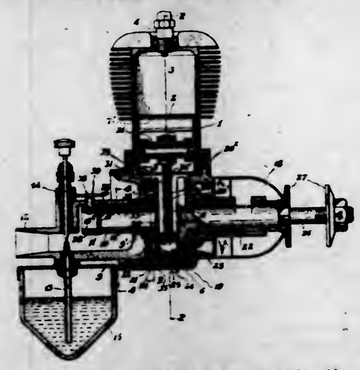


1. In apparatus of the class described a lock-stitch sewing machine having a rotary hook, power operated means for driving said machine, manually controlled means for delivering power to said power operated means, a treadle having a substantial range of movement for controlling the operation of said machine by said power operated means, means for delivering a blast of air against said rotary hook, a valve for controlling the operation of said air delivering means, an operating lever connected with said valve, and adjustable means on said lever arranged to be engaged by said treadle at a selected point in its range of movement to open said valve as an incident to operation of the machine, said means being capable of adjustment to bring about opening of said valve prior to engagement of the clutch.



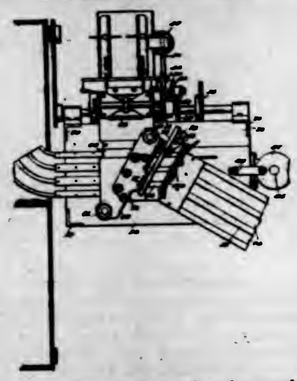


**2,391,380**
**VALVE CONTROL FOR INTERNAL-COMBUSTION ENGINES**
**Percy E. Barker, Pepper Pike Village, Ohio**
**Application November 30, 1944, Serial No. 565,286**
**11 Claims. (Cl. 123—73)**



7. A valve control for internal combustion engines comprising a cylindrical casing having a port, a sleeve valve rotatably mounted in the casing and having a port registrable with the casing port, a disk rotatably secured to the sleeve, a rotatable crank-shaft, crank and crank-pin, the disk having a plurality of elongated arcuate slots spaced apart equal angular distances and adapted to be intersected by the crank-pin, a spring member secured to the disk, rotatable therewith, and having deformable portions thereof intersecting the respective paths of movement of the crank-pin in the respective slots and of sufficient resistance to deformation to produce normal rotation of the disk through the spring, and manually-operable means for imposing a drag on the rotation of the sleeve to permit movement of the pin in the slot against the resistance of the deformable spring portions.

**2,391,381**
**FEED CONTROL FOR LINING MACHINES**
**John Belada, Glassboro, N. J., assignor to Owens-Illinois Glass Company, a corporation of Ohio**
**Application March 25, 1943, Serial No. 436,148**
**1 Claim. (Cl. 112—113)**



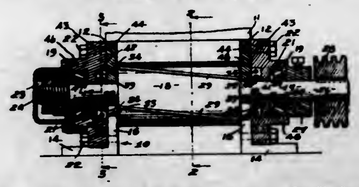
A lining machine comprising in combination, feed rolls for feeding lining material to an assembly station, a motor, driving connections between the motor and feed rolls including a dog and ratchet, means for holding the dog out of driving engagement with the ratchet, an electromagnet operable when energized to move the dog into engagement with the ratchet, a plurality of channels, means for advancing rows of closure devices through said channels to the assembly station, rocker bars individual to said channels and mounted to swing into and out of the paths of the closure devices in the channels, an electrical control circuit for the electromagnet, switches individual to said channels and connected in series in said circuit, and means actuated by said rocker bars for holding said switches open while the rocker bars are projected into the path of the closure devices and for closing said switches when the rocker bars are actuated by the closure devices.

**2,391,382**
**HEATING UNIT**
**John Bilas, Flint, Mich.**
**Application November 5, 1943, Serial No. 509,063**
**2 Claims. (Cl. 219—34)**



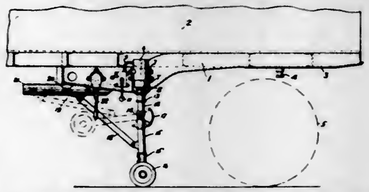
2. A heating unit comprising a plurality of polygonal plates of material having low electrical conductivity, by one of their edges said plates being joined to effect radial formation, said plates upon their faces being provided with a continuous groove, and a metallic wire of high resistance imbedded in said groove.

**2,391,383**
**SEPARABLE PACKING UNIT**
**Evert Victor Bloomquist, Wausau, Wis.**
**Application November 11, 1944, Serial No. 563,034**
**1 Claim. (Cl. 286—5)**



In a supporting member for a shaft having formed therein a first opening for receiving said shaft and a second opening normal to said first opening and extended through said first opening, a packing unit receivable in said second opening and comprised of mating half sections adapted to encircle said shaft, said packing unit having a central bore with an annular groove in the side wall thereof adapted to receive a packing material, and with the portions of said bore at opposite sides of said groove being of a different diameter, and means for clamping said half portions about said shaft, with the clamping action forcing the packing material against said shaft, and outwardly from the packing unit, through the portion of said bore of smaller diameter, against the side wall of said second opening adjacent to said smaller diameter bore portion.

**2,391,384**
**LANDING GEAR FOR TRAILERS**
**Charles Bohlen, Jr., Jenkintown, Pa.**
**Application March 17, 1944, Serial No. 526,873**
**7 Claims. (Cl. 254—86)**



1. In a landing gear for trailers, in combination, a cylinder, a piston in said cylinder, means for supplying fluid under pressure to said cylinder, a rod slidably supported in line with said piston and adapted for end contact therewith but free to move out of contact therewith, a leg pivotally connected to said rod and means for moving said leg about its pivotal connection with said rod.

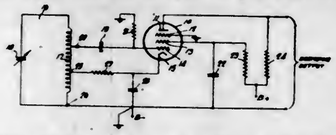
**2,391,385**
**FOUNTAIN PEN**
**Max Boral, New York, N. Y.**
**Application September 16, 1944, Serial No. 554,430**
**6 Claims. (Cl. 120—47)**



1. In a fountain pen, a barrel, a transverse partition defining a forward ink chamber and a rear pump chamber and provided with an aperture establishing communication between said chambers, a reciprocable piston mounted in said pump chamber, means controlled by the piston reciprocation for creating a suction in the pump chamber which draws ink rearwardly from a filling source into said ink chamber, and a separator slidably mounted in said ink chamber and adapted to float on the ink therein to prevent said ink from entering said pump chamber through said aperture.

**2,391,386**
**HARMONIC GENERATOR**
**William E. Bradley, Northampton, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application July 2, 1943, Serial No. 493,265**
**5 Claims. (Cl. 250—36)**

1. A variable frequency oscillation generator comprising an amplifying device having input and output terminals, a frequency-determining resonant tank circuit tunable through a range of oscillation frequencies, and a feed-back path connecting said output terminals with said resonant circuit, said input terminals being coupled to said

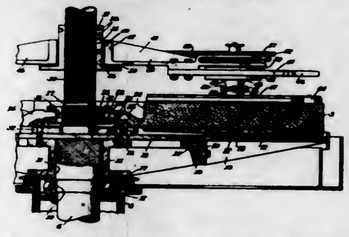


resonant circuit, said feed-back path including a fixed-constant filter designed to pass efficiently the aforementioned range of oscillation frequencies and to substantially reject all harmonics of all said oscillation frequencies.

**2,391,387**
**PROCESS OF MAKING ADHESIVE MATERIAL**
**Lawrence Bradshaw, Bainbridge, N. Y., and Charles Logan Stachel, Detroit, Mich., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application October 12, 1942, Serial No. 461,780**
**6 Claims. (Cl. 260—112)**

1. A process of treating insoluble dried blood selected from the group consisting of fertilizer blood and feeding blood, which comprises mixing such insoluble blood with a caustic alkali, and water in an amount sufficient to dissolve such caustic alkali, such treatment being conducted at a temperature not substantially above 180° F., and drying the mixture, the proportion of caustic alkali and the amount of any heating being sufficient to cause the conversion of the major part of said insoluble dried blood into the soluble condition.

**2,391,388**
**GRINDING AND LAPPING MACHINE**
**Earl J. Bullard, Altadena, Calif.**
**Application July 5, 1943, Serial No. 493,531**
**3 Claims. (Cl. 51—131)**

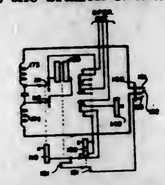


1. In a grinding and lapping machine, the combination of: a lap composed of independent sectors arranged in continuous annular relationship, and means for varying the angle of each sector relative to a horizontal plane.

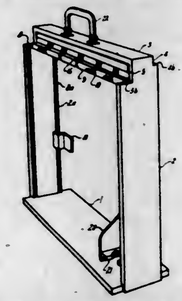
**2,391,389**
**TELEPHONE SYSTEM**
**Karl L. Burgener, Villa Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application August 4, 1944, Serial No. 548,077**
**9 Claims. (Cl. 179—27)**

1. In a telephone system, a two way trunk extending from a branch exchange to a main exchange, means for seizing the trunk and extending connections thereover in either direction, a relay normally connected to one conductor of the trunk and operated when the trunk is seized at the main exchange to busy the trunk at the branch exchange, means responsive to the seizure of the trunk at the branch exchange for disconnecting said relay from said one conductor and for making the trunk busy at the main exchange end, and means responsive to the release of a connection extended over the trunk from the branch exchange for connecting said relay to both conductors of the trunk line to hold the trunk busy at the branch exchange until it is cleared at the main exchange.





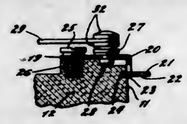
**2,391,390**
**MANIFOLD SUPPORT FOR GAS ANALYSIS APPARATUS**
**George W. Carlson, Bridgeville, Pa., assignor to Burrell Technical Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 17, 1943, Serial No. 502,839**
**2 Claims. (Cl. 206—1)**



1. A container for portable gas analysis equipment consisting of a base having a pair of relatively narrow uprights cut out at the top, said uprights having grooves for receiving sliding panels, a manifold support for connecting pipettes and the like extending across said uprights in alignment with said cut-out portions mounted in a manner to be exposed at the top and front of said case, and panels slidingly mounted in said uprights and having extending tops interacting with said cut-out portions to completely close the container in assembled position.

**2,391,391**
**TERMINAL ELEMENT**
**Kenneth J. Chichester, Flushing, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York**
**Application February 25, 1944, Serial No. 523,805**
**2 Claims. (Cl. 200—166)**

2. In a relay having an insulating material portion, a terminal element comprising two parallel end sections with an intermediate section at right angles to each end section and one end section having an aperture, a bolt passing through said aperture for attaching said element to said



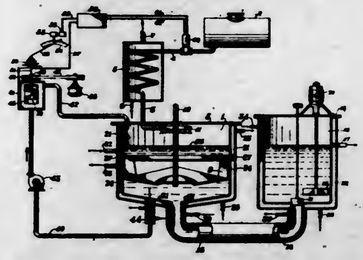
portion, a contact carried by said end section, a tab extending from said intermediate section in alinement with the remaining end section, and a recess in said portion receiving said tab.

**2,391,392**
**GOLF TEE**
**Bruce A. Coffin, Peabody, Mass.**
**Application April 7, 1944, Serial No. 529,916**
**3 Claims. (Cl. 120—83)**



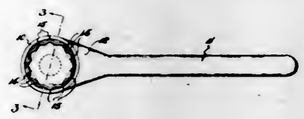
1. A golf tee pointed at one end and having a coating at the pointed end of a substance capable of marking on a piece of paper or the like.

**2,391,393**
**POLYMERIZATION OF ORGANIC LIQUIDS**
**Raphael T. Coffman, North Arlington, and Bernard M. Marks, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application October 23, 1943, Serial No. 507,412**
**5 Claims. (Cl. 260—83)**



1. Process of continuously polymerizing a monomeric polymerizable liquid organic compound to form a syrup of polymer dissolved in monomer, which process comprises adding to a syrup of polymer dissolved in monomer contained in a reaction vessel at an elevated temperature to induce polymerization of monomer, monomer at such temperature and rate that the temperature and viscosity of said syrup in said reaction vessel are maintained substantially constant, and simultaneously withdrawing from said reaction vessel syrup in quantity equal to the quantity of monomer being introduced, and cooling said syrup immediately upon withdrawal from said reaction vessel.

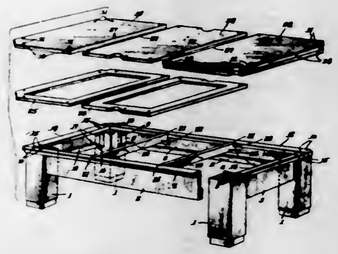
**2,391,394**
**WRENCH**
**Joseph A. Cegbill, Fanwood, N. J.**
**Application March 7, 1944, Serial No. 525,349**
**5 Claims. (Cl. 81—121)**



1. A wrench of the socket type comprising an annular head frame having a hand lever affixed thereto for extension therefrom, and means disposed within said head frame adapted to form a polygonal socket orifice, said latter means comprising socket forming elements of sheet metal bent to provide a series of angularly related socket wall sections and assembled to define a socket orifice of desired shape, the apices of external angles of said socket forming elements being disposed to impinge upon and being affixed to said head frame.

---

**2,391,395**
**BILLIARD TABLE**
**Alfred F. Debicki, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware**
**Application June 5, 1942, Serial No. 445,839**
**7 Claims. (Cl. 273—6)**



2. In a billiard table, a blind rail, a top rail secured thereto and extending outwardly beyond the outer vertical face of the blind rail, an apron disposed with its upper edge engaging the under side of the top rail, said apron having a downwardly facing shoulder on its inner face, and a supporting member fastened to the blind rail and extending outwardly therefrom under said shoulder to support the apron.

---

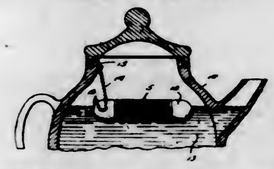
**2,391,396**
**DRILL**
**John S. Denison, Mellen, Wis.**
**Application April 27, 1942, Serial No. 440,648**
**2 Claims. (Cl. 77—67)**

1. In a drill, a cylindrical body, a conical working end on said body, said body having a plurality of helical flutes provided in its working end, a corresponding plurality of cutting lips formed on said end, the cutting edges of all of said lips being straight and meeting substantially at the vertex of said conical end, the included angle of said conical end being within the range between 65° and 120°, said flutes terminating at a predetermined distance from said vertex.



---

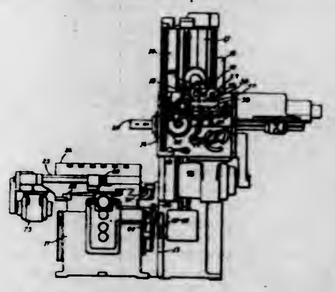
**2,391,397**
**BEVERAGE MAKER**
**Franklin J. Dever, Columbus, Ohio**
**Application June 5, 1944, Serial No. 538,745**
**4 Claims. (Cl. 99—320)**



1. A beverage making container of the class described comprising a tubular member of foraminous material and adapted to contain the beverage making ingredients, and float members detachably connected at each end of said tubular member.

---

**2,391,398**
**HORIZONTAL BORING MACHINE**
**Charles B. De Vlieg, Detroit, Mich.**
**Application September 29, 1942, Serial No. 460,111**
**19 Claims. (Cl. 77—3)**

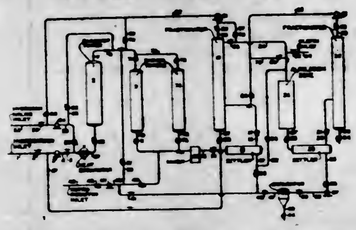


12. A horizontal boring machine having, in combination, a horizontal bed and an upright column in rigid relative relation, a horizontal spindle bar mounted on the column on an axis at 90° with respect to the length of the bed, a saddle slidable lengthwise on the bed, a work platen slidable on the bed saddle in a plane parallel with the spindle axis, the spindle bar being located approximately midway between the ends of the bed, the work platen and the bed saddle being of substantially the same dimension measured lengthwise of the bed and the work platen being movable with respect to the bed saddle only in said plane parallel with the spindle axis whereby to eliminate overhang of the work platen beyond either end of the bed saddle at any working position of the bed saddle with respect to the spindle bar, and mechanism for imparting rapid traverse movement to the work platen while maintaining the bed saddle fixed on the bed and for automatically locking the work platen to the bed saddle at a pre-selected stop position in the approach of the work platen to the spindle bar.

---



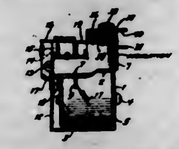
**2,391,399**
**ISOMERIZATION OF PARAFFINS**
**Charles G. Dryer, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application July 6, 1942, Serial No. 449,849**
**6 Claims. (Cl. 260—683.4)**



1. A process for producing saturated branched chain hydrocarbons which comprises subjecting a less branched chain paraffin to contact with an aluminum halide catalyst in the presence of hydrogen halide under isomerizing conditions, commingling the reaction products with a nitro-paraffin solvent, separating the desired isomeric hydrocarbon from unconverted hydrocarbon and the aluminum halide-nitro-paraffin solution, commingling said separated isomeric hydrocarbon with olefinic hydrocarbons and contacting the mixture in the presence of hydrogen halide under alkylating conditions with the aluminum halide nitro-paraffin solution formed as previously set forth.

---

**2,391,400**
**ELECTRICAL RELAY**
**Joseph F. Ebert, Hollis, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York**
**Application September 12, 1942, Serial No. 458,173**
**8 Claims. (Cl. 200—104)**



1. In a relay, a magnetically conductive frame consisting of a cross member and two leg members extending from the ends thereof in the same direction and at right angles to said cross member with one leg member constituting a base for supporting said frame, a coil fixed to said cross member with its axis at right angles thereto and located between said leg members, a hinge formed at the end of said other leg member, an insulating plate secured to said other leg member, a contact member on said insulating plate, an armature fitted on said hinge and substantially parallel to said cross member, a contact arm carried by and insulated from said armature and overlying said insulating plate for co-operation with said contact member, and a spring biasing said armature away from said coil.

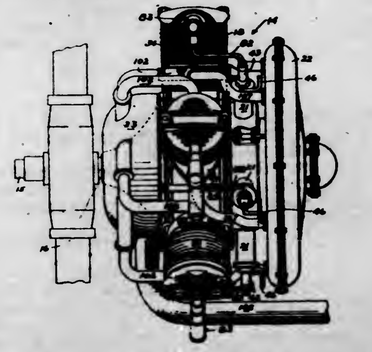
---

**2,391,401**
**METHOD OF ROLLING**
**Charles J. Fiscus, Arnold, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application April 11, 1945, Serial No. 587,826**
**2 Claims. (Cl. 148—11.5)**

1. The method of producing from an ingot or billet of aluminum base alloy containing about 3 to 10 per cent by weight of tin, a hot rolled slab which will not liquate excessively when annealed at 600° to 850° F., which comprises preheating said ingot or billet for a period of about 1 to 12 hours at temperatures of about 575° to 650° F. and thereafter rolling the thus preheated ingot or billet to slab form at rolling temperatures within the range of about 300° to 450° F.

---

**2,391,402**
**TWO-STROKE CYCLE INTERNAL-COMBUSTION ENGINE**
**Edwin M. Fisk, Mission San Jose, Calif.**
**Original application May 19, 1941, Serial No. 394,097, now Patent No. 2,334,185, dated November 16, 1943. Divided and this application November 15, 1943, Serial No. 510,353**
**4 Claims. (Cl. 123—65)**

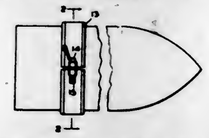


1. In a two-stroke cycle internal combustion engine, a cylinder provided intermediate its ends with an exhaust port and a pair of air inlet ports mutually spaced axially of the cylinder, said exhaust and inlet ports being located at opposite sides of the cylinder, a structurally separate member complementarily and sealedly engaging the cylinder side and providing a discharge passage having its intake end in registration with said exhaust port, a structurally separate member complementarily and sealedly engaging the cylinder side opposite the first member and providing a branched air supply passage having the discharge ends of its branches in registration with the different air inlet ports, a check valve in the air supply passage to the inlet port nearest the cylinder head for automatic opening

when the pressure at the intake side thereof exceeds the pressure in the cylinder, and means directly cooperative between the members to releasably clamp them to the cylinder.

---

**2,391,403**
**SHELL GROMMET**
**Wayne J. Friderici, Port Clinton, Ohio, assignor to The Standard Products Company, Detroit, Mich., a corporation of Ohio**
**Application January 27, 1941, Serial No. 376,167**
**4 Claims. (Cl. 102—1)**



1. Tie means for a rifling band protective grommet of the type wherein the grommet has a metal supporting strip, and a relatively soft, non-metallic covering layer carried on said supporting strip, and wherein said tie means is adapted to retain said grommet in encircling relationship on said rifling band, said tie means comprising loop means connected with one end portion of said strip, the other end portion of said strip having a tab integral therewith, said tab having a free end portion extending outwardly at an angle from said strip to provide an entrance thereunder for said loop means, and said tab being provided, immediately adjacent its connection to said strip, with a tunneled recess to receive the free end of said loop means, said tab having a reinforced portion and a non-reinforced portion, said non-reinforced portion being adjacent said tunneled recess, said tab being readily bendable at the non-reinforced portion to release said tie means, and hence permit said grommet to be readily removed from said rifling band.

---

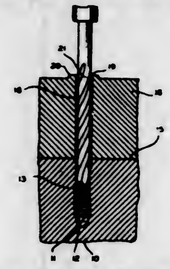
**2,391,404**
**PROCESS FOR THE SEPARATION OF AN UNSATURATED HYDROCARBON FROM A HYDROCARBON MIXTURE**
**Bernard S. Friedman and Russell F. Stedman, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application September 28, 1942, Serial No. 459,941**
**13 Claims. (Cl. 260—677)**

1. A process for the separation of an unsaturated hydrocarbon from a hydrocarbon mixture containing the same which comprises contacting the mixture with a solution of a silver salt in a water-soluble organic compound selected from the group consisting of glycols and glycol ethers.

---

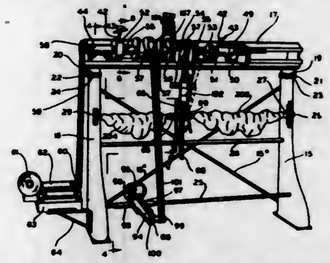
**2,391,405**
**METHOD OF REMOVING BROKEN STUDS**
**Elmer A. Fuglie, Winona, Minn., assignor to Winona Tool Mfg. Company, Winona, Minn., a corporation of Minnesota**
**Application October 28, 1942, Serial No. 463,722**
**2 Claims. (Cl. 29—148)**

1. The method of removing broken stud bolt ends, which consists in holding the member adapted to be fastened by the stud bolt with its bolt hole in normal position over the broken stud bolt end, applying in said hole a sleeve having an outer diameter substantially that of the hole and an inner diameter that of the cylinder outlined by the bottoms of the stud threads, guiding a drill bit of substantially the diameter of the inner diameter of the sleeve through said sleeve to center the bit upon the top of the broken end, operating the drill to remove the body portion of the stud end so as to leave the threads separated and in the threads of the stud bolt hole, and thereafter removing the separated threads to leave the bolt hole threads free end ready to receive a stud bolt.



---

**2,391,406**
**AUTOMATIC CRANKSHAFT GRINDING AND POLISHING MACHINE**
**Elmer Alvin Fuglie and Hilton John Anderson, Winona, Minn., assignors to Winona Tool Mfg. Company, Winona, Minn., a corporation of Minnesota**
**Application June 4, 1943, Serial No. 489,708**
**9 Claims. (Cl. 51—123)**

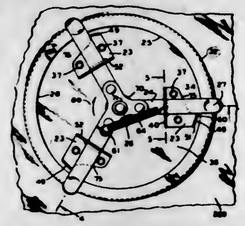


7. In a crankshaft grinder, means for holding a crankshaft including a pair of aligned chuck shafts with means for locking the crankshaft thereto, said chuck shafts and crankshaft being mounted for combined rotary and longitudinal movements, means for rotating the chuck shafts and the crankshaft held thereby, a gear connected to one of the chuck shafts and rotated thereby, means connected with said gear including a threaded shaft for moving the chuck shafts and crankshaft held by them longitudinally when the latter are being driven, and means for reversing the direction of rotation of said gear to cause reversal of rotation of the threaded shaft and effect reversing of the direction of longitudinal movement of the chuck shafts and crankshaft.

---

**2,391,407**
**DETACHABLE PORT COVER**
**Rudolph Funk, Hagerstown, Md.**
**Application June 10, 1943, Serial No. 490,297**
**2 Claims. (Cl. 292—7)**

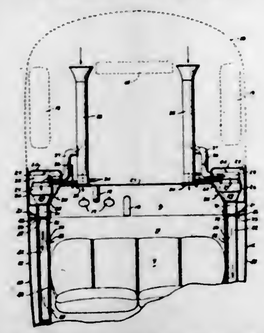
1. A detachably engageable cover plate for use with a surface having a port, comprising: a cover element having a periphery; a plurality of guide elements connected to said cover element; said guide elements including an outer guide member adapted to engage the edge of said port, and an inner guide member having an orifice; a plurality of latching fingers slidably disposed within said guide members; said outer guide members acting to place and position the cover element with respect to the edge of said port; said latching fingers being shiftable outwardly to engage the edge of said port and inwardly to disengage the edge of said port.



---



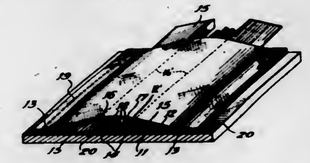
**2,391,408**
**VEHICLE HEATER**
**Joseph Galamb, Detroit, and Thomas L. Hibbard, Birmingham, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application January 29, 1944, Serial No. 520,368**
**2 Claims. (Cl. 98—2)**



1. In a heater arrangement for motor vehicles, having an engine compartment, a passenger space, said compartment and space being separated by a toeboard and dashboard therebetween, a cowl over said dashboard and toeboard and terminating on either side in a door supporting pillar, a heater housing extending forwardly from the dashboard and toeboard and beneath said cowl and extending into but closed to said engine compartment, and separated from the passenger space by a panel extending between said pillar and said dashboard, a heater and fan means mounted within said heater housing, a port in said panel adjacent the top of said housing to admit air from the interior space of said vehicle thereto, an inlet in said housing to admit fresh air from the exterior of said vehicle to said housing and heater means, and a duct extending through said pillar from said housing for the delivery of warm air from said heater, and at least one outlet in said duct to discharge heated air from said duct into said passenger space.

---

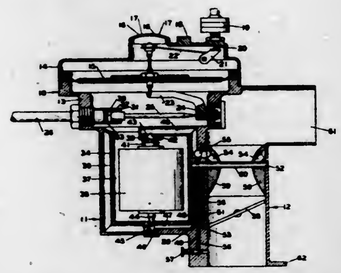
**2,391,409**
**ELECTRICAL WIRING DEVICE**
**Alex M. Geist and Rex R. Winders, Lincoln, Nebr.**
**Application January 24, 1944, Serial No. 519,424**
**10 Claims. (Cl. 138—75)**



1. A duct for insulated electrical conductors comprising, an elongated member having a longitudinal channel in its top face to receive the conductors therein, the top surface of said member being inclined from the top edges of the channel walls downwardly and outwardly toward the longitudinal edges of said member, and a flap disposed to overlie the inclined top surfaces and bridge the channel.

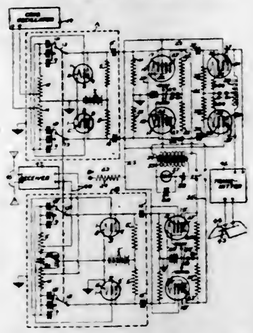
---

**2,391,410**
**CHARGE FORMING DEVICE**
**Gerhard Gerson, Keego Harbor, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application July 14, 1941, Serial No. 402,417**
**7 Claims. (Cl. 261—16)**



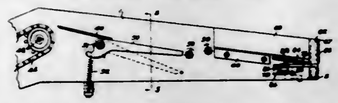
1. A charge forming device for utilizing hydrocarbon fuel, at least certain components of which possess a superatmospheric vapor pressure, comprising a vaporization chamber wherein, on pressure reduction, vaporization of the high pressure components of said fuel to form a gaseous fuel portion and a liquid fuel portion takes place, means maintaining a substantially constant pressure in the vaporization chamber, carburetion means for said gaseous and liquid fuel portions, a passage for the gaseous fuel portion and a passage for the liquid fuel portion leading from the vaporization chamber to the carburetion means, whereby fuel flow is induced in accordance with air-flow through said carburetion means, a float for said vaporization chamber, a valve for each of said passages operably connected with said float for controlling the flow of liquid and gaseous fuel portions to said carburetion means in accordance with the liquid level in said vaporization chamber.

2,391,411
**TERRAIN-LEVEL ALTIMETER**
Ralph W. Goble and Oliver V. Phillips, Long Beach, and Donald K. Lippincott, San Francisco, Calif., assignors to Leo M. Harvey, La Canada, Calif.
Application January 24, 1941, Serial No. 375,792
20 Claims. (Cl. 250—1)



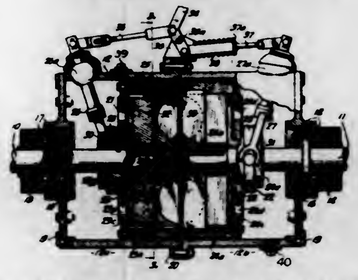
1. A terrain-level radio altimeter comprising a master oscillator, of relatively low frequency, a radio transmitter of relatively high frequency, means for modulating said transmitter with a signal developed by said oscillator, a directive antenna system fed by said transmitter, a receiver adapted for the reception of signals from said transmitter, an antenna feeding said receiver and shielded from direct radiation from said transmitter antenna but receptive to reflected waves therefrom, means for developing from the reflected signals received by said receiver from said transmitter an oscillation substantially equal in amplitude and wave form as the oscillations supplied to said transmitter by said master oscillator, and means for determining the phase difference of said oscillations.

2,391,412
**SEPARATOR**
Edward S. Gorton, Waterville, Maine
Application September 29, 1942, Serial No. 460,104
1 Claim. (Cl. 209—75)



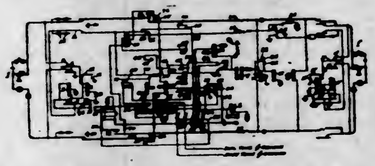
In a stone separating mechanism for a vegetable harvesting machine, the combination of a platform which receives vegetables, said platform being inclined downwardly, a set of spaced levers which receive vegetables and stones from said platform, said levers being inclined downwardly from and constituting in effect a prolongation of said platform in the direction of travel of the vegetables under the influence of gravity, said levers being separately fulcrumed to rock independently in vertical, parallel planes from their normal, downwardly inclined arrangement to a greater inclination under the influence of stones relatively heavier than the vegetables, yielding means to restore said levers to their normal inclination, a vegetable forwarding roller which receives vegetables and remaining stones from said levers, said roller rotating in a direction to continue the travel of the vegetables, and a stone rejecting roller which rotates in a reverse direction and is separated from said forwarding roller by a space through which remaining stones pass.

2,391,413
**HYDRAULIC COUPLING**
James F. Gregg, Laramie, Wyo.
Application June 19, 1942, Serial No. 447,683
4 Claims. (Cl. 60—54)



4. A hydraulic coupling comprising a fluid-tight housing, a hydraulic fluid within the housing, a drive shaft extending through one end of the housing, a driven shaft extending through the other end of the housing, an impeller mounted on the drive shaft, a runner mounted on the driven shaft, said runner including a neutralising disk secured to the shaft and having radial slots in one face thereof, said slots defining sectors and the faces of the sectors having a concave profile, a wheel including a rim slidably but non-rotatably mounted on the neutralizing disk, registering axial grooves in the periphery of the neutralizing disk and wheel rim, balls in said grooves, a hub slidably but nonrotatably mounted on the shaft and radial vanes connected to the hub and rim adapted to slide in the slots of the neutralizing disk, said rim and hub holding the vanes in alignment with the slots in the neutralizing disk and transmitting power from the vanes to the driven shaft through the rim and neutralizing disk, and means for moving the wheel axially on said neutralizing disk.

2,391,414
**SELECTOR SWITCH CIRCUIT FOR AUTOMATIC TELEPHONE SYSTEMS**
Harlan E. Grimes, Mount Orab, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 6, 1942, Serial No. 513,025
13 Claims. (Cl. 179—18)



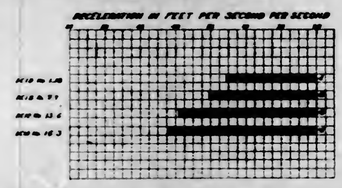
1. In an automatic telephone system, a selector switch circuit for completing a talking circuit between a calling subscriber's line and a trunk for furthering the circuit toward a desired subscriber's line, multiple private contacts for the trunk which are separate from the multiple talking circuit contacts, means for maintaining an identifying electrical condition on the multiple private contacts of the trunk to indicate the busy condition of the trunk and a different identifying electrical condition to indicate the idle condition of the trunk, a test relay for the selector switch circuit the energizing circuit and actuation condition of which is changed when the private wiper of the selector switch arrives upon one of the private multiple contacts of an idle trunk, another relay winding connected between the talking strands of said selector switch circuit by the changed condition contacts of said test relay, said other relay winding being energized over a circuit including both of the talking circuit wipers of the selector switch circuit and the multiple talking circuit contacts of an idle trunk, means for moving the wipers of the selector switch circuit successively over multiple contacts of busy trunks, contacts responsive to the energization of said other relay winding for stopping the movement of the selector switch wipers on the idle multiple contacts of a trunk, whereby the selector switch circuit wipers will continue movement past the multiple contacts of an idle trunk unless the talking circuit wipers of the selector complete connection with multiple talking circuit contacts of an idle trunk.



2,391,415
**TREATMENT OF HYDROCARBONS**
Aristid V. Grosse, Haverford, Pa., and Carl B. Linn, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 27, 1944, Serial No. 537,730
11 Claims. (Cl. 260—683.4)

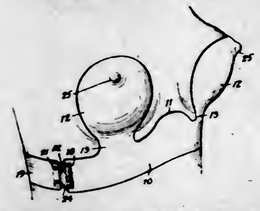
6. A process for the production of high anti-knock motor fuel hydrocarbons which comprises polymerizing a normally gaseous olefin of at least 3 carbon atoms to form a normally liquid polymer thereof, and then reacting said polymer with isobutane, to form an isoparaffin boiling in the gasoline range.

2,391,416
**FRICTION ELEMENT**
Clinton Sheldon Hart, Northfield, Minn., and Ray E. Spokes, Ann Arbor, Mich., assignors to American Brake Shoe Company, Wilmington, Del., a corporation of Delaware
Application May 17, 1943, Serial No. 487,234
4 Claims. (Cl. 106—36)



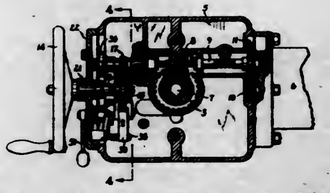
1. The method of making a friction element which comprises heating heat-polymerizable vegetable drying oil at a temperature of not substantially less than 500° F. nor substantially more than 600° F. until said oil has become highly viscous and tacky but is substantially free of gel formation and is completely soluble in petroleum thinner and has an acid number substantially in excess of 2.5, intimately mixing the thus heat-polymerized vegetable drying oil as a bonding agent with friction material, forming the mixture thus prepared into friction element shapes, and then heating said friction element shapes to effect the cure of the bond.

2,391,417
**BRASSIÈRE**
Iver F. Hill, Stratford, Conn.
Application September 29, 1944, Serial No. 556,353
2 Claims. (Cl. 2—42)



1. In a brassière, an integral structure of moulded plastic material, or the like, comprising a supporting band portion and an initially cupped pocket portion extending upwardly from said band portion and connected thereto by a contracted neck portion, said pocket portion at its lower part being curved outwardly and upwardly with respect to said band portion, and a reinforcing means of relatively increased stiffness disposed in said neck portion along the curve between said band and pocket portions.

2,391,418
**DRIVE FOR VALVES AND THE LIKE**
Howard E. Hodgson and Clarence W. Kuhn, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Original application April 10, 1939, Serial No. 267,142. Divided and this application March 30, 1942, Serial No. 436,262
15 Claims. (Cl. 74—467)

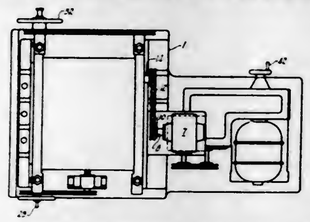


1. The combination with a power drive for valves and the like, of a manual operating mechanism for an element of said drive, comprising a manual operating member rotatable in opposite directions and a gear drive from said member to said element normally in a state to disconnect said member from said element and including means responsive to rotation of said member in either direction to connect said member to said element, but only if said element is then substantially at rest.

2,391,419
**ROLLER LEVELER**
Raymond F. Heltz, Canonsburg, Pa., assignor to Edward W. Vess, Dormont, Pa.
Application June 2, 1944, Serial No. 538,446
6 Claims. (Cl. 153—54)

1. A sheet roller leveler comprising in combination a plurality of superposed laterally spaced

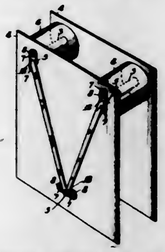
sprocket chains having journal pins extending across and connected to said chains, leveling rollers journaled on said pins, said chain rollers constituting a pass between the upper and lower rolls for the sheets to be straightened, backing plates of a width to support substantially the full



length of the leveler rolls constituting pressure abutments for the bottom rolls of the upper chains and the top rolls of the lower chains, means for varying the tension on said roller chains, means for adjusting said upper and lower rollers relative to each other, and drive mechanism for said upper and lower chains.

---

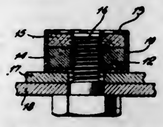
**2,391,420**
**ORNAMENTAL CONTAINER**
**Charlotte Huber, New York, N. Y.**
**Application July 26, 1944, Serial No. 547,484**
**2 Claims. (Cl. 46—11)**



1. An ornamental receptacle formed by a front panel and a rear panel connected by three spacers in V shaped arrangement, and with securing elements passing through the spacers and panels, the space between the panels forming an article receiving space, and the lower central spacer forming a load carrying support and the side spacers forming side supports.

---

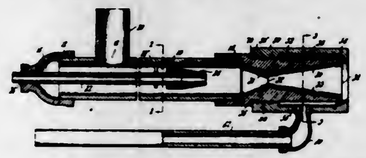
**2,391,421**
**SELF-LOCKING NUT**
**Clifton H. Ineson, Oakville, Conn., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York**
**Application July 16, 1943, Serial No. 494,964**
**3 Claims. (Cl. 151—7)**



1. A self-locking nut comprising in combination a casing having a base provided with an aperture and side members so arranged that the casing is polygonal in transverse cross-section, a nut member and an elastic locking member positioned within said casing and each member having its sides shaped so as to fit snugly the sides of the casing, said casing having at each corner a symmetrically arranged extension bent inwardly over said locking member to retain said nut member and locking member within the casing and each extension being of greatest extent along a line connecting opposite corners of said nut and throughout its entire extent being uninterrupted from one casing side to the adjacent casing side thus forming a corner brace.

---

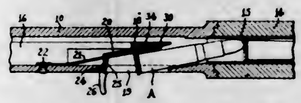
**2,391,422**
**FUEL ATOMIZER**
**Henry S. Jackson, Springhill, La.**
**Application January 7, 1944, Serial No. 517,339**
**6 Claims. (Cl. 299—140)**



2. A burner for atomizing and discharging high viscosity fuel comprising, a fuel-receiving chamber, a primary nozzle within said chamber for discharging a jet of atomizing medium, a Venturi tube having a throat in alignment with the jet from said nozzle, the trailing portion of said venturi constituting a final discharge member and terminating in an open delivery mouth of substantially greater diameter than the minimum diameter of said throat, and means adjacent the open end of said final discharge member for discharging a secondary jet of atomizing medium around the entire periphery of said open delivery mouth, said means being constructed and arranged to so direct said secondary jet that the jet forms in space beyond said delivery mouth a hollow cone converging into the mixture emerging from said final discharge member.

---

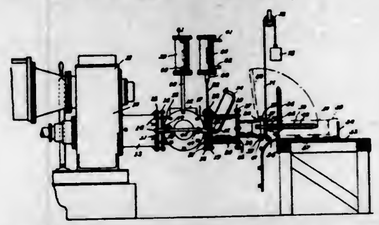
**2,391,423**
**MEANS FOR UNLOADING MAGAZINES OF FIREARMS**
**Robert L. Jenkinson, Teaneck, N. J., assignor to The Marlin Firearms Company, New Haven, Conn., a corporation of Connecticut**
**Application May 3, 1944, Serial No. 533,830**
**9 Claims. (Cl. 42—6)**



1. A repeating firearm having a receiver and a magazine which communicates at its rear end with the receiver, said receiver having an opening in its side wall through which cartridges may be inserted into the magazine, a gate to close said opening, said gate being mounted on the receiver to swing inwardly to open position, means normally urging said gate to closed position, and an element pivoted on the receiver and engaging said gate by which the latter may be opened to permit unloading of the magazine.



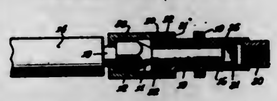
**2,391,424**
**MACHINE FOR MOLDING TUYÈRES**
**Robert B. Keplinger, Canton, and Charles A. Fry, Minerva, Ohio**
**Application November 19, 1943, Serial No. 510,936**
**5 Claims. (Cl. 25—33)**



1. Means for forming ceramic tuyères comprising an auger extrusion machine having a deairing chamber and an extruding auger barrel, a plurality of cylindric dies communicating with the extrusion barrel, a removable gate upon each die, core rods located through the dies, means upon the gate for positioning and holding the outer ends of the core rods, a cutoff plate for controlling the flow of clay through each die, means for extruding a clay column from each die when the gate is opened, means operated by the movement of the column for closing the cutoff plate to each die when the column extruded therefrom attains a predetermined length and for simultaneously opening the cutoff plate to another of the dies.

---

**2,391,425**
**SELF-WIPING ELECTRIC PLUG CONNECTOR**
**Harry Korn, Los Angeles, Calif.**
**Application January 4, 1943, Serial No. 471,223**
**2 Claims. (Cl. 173—363)**

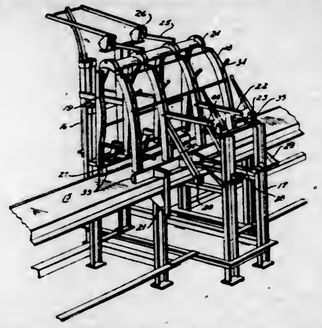


1. An electrical connector comprising a plug, a socket adapted to receive the plug having a cylindrical bore therein, there being a groove in the walls of the bore adjacent the mouth of the socket and a pair of U-shaped members disposed in the bore arranged in intersecting planes having laterally bent lips extending into the groove, the arms of the U-shaped members having their widths collectively lining substantially the entire interior of the socket with their edges in contact therewith, whereby upon insertion of the plug the arms will be caused to laterally flex between their side edges to maintain firm engagement with the plug.
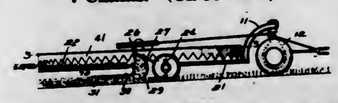
---

**2,391,426**
**GLUING FIXTURE**
**Clarence F. Kramer, Birmingham, and Walter G. Nelson, Iron Mountain, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application January 8, 1943, Serial No. 471,715**
**5 Claims. (Cl. 144—281)**

1. In a gluing fixture for structural components of rib and skin construction, a longitudinally extending support, press means located intermediate of said support, said press means including side pressure members movable laterally of said support and a hinged vertical press member disposed above said support, a toggle device associated with said vertical pressure member and selectively operable to move said member substantially vertically with respect to said support, operating means to move said side pressure members laterally of said support, said pressure members comprising a plurality of tubular pressure strips formed of resilient material, said pressure strips being disposed in predetermined relationship with ribs on said component to be assembled therein, and means to admit steam under pressure selectively to said pressure strips.



---

**2,391,427**
**MACHINE FOR TURNING WINDROWED HEMP AND THE LIKE**
**Joseph B. Kucera, Traer, Iowa**
**Application January 20, 1943, Serial No. 472,975**
**7 Claims. (Cl. 56—370)**



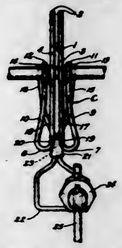
1. A hemp turner, comprising front and rear semi-circular platforms supported substantially in the same plane, said platforms being spaced apart to provide inlet and outlet passages between them, arranged transversely of a line of advance, means supported at the inlet side of the forward edge of the rear platform for elevating and delivering hemp to the top surface of said rear platform through said inlet passage, a rotary head above, parallel and concentric with the upper surfaces of said platforms, hemp-engaging means depended from said rotary head and terminating above said platform, with the hemp at said inlet passage being engaged and moved by said hemp-engaging means in a substantially semi-circular path on said rear platform for delivery to the ground through said outlet passage.

---

**2,391,428**
**CONDUCTOR TAP-OFF CLAMP**
**Edwin A. Link, South Milwaukee, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware**
**Application April 20, 1944, Serial No. 531,898**
**11 Claims. (Cl. 173—273)**

1. A connector clamp comprising a single length of resilient wire bent intermediate its ends to provide two adjacent clamping sections each of which includes an open hook at its upper end

adjacent said bend, a downward extension extending from said hook curved outwardly relative to a vertical plane, a connecting part extending upwardly from the lower extremity of said extension to a point adjacent said hook and curved over in a clockwise direction through said plane, a coil extending from the curved portion of said part and terminating in a second down-



ward extension upon a side of said plane opposite that upon which the first mentioned extension is situated, said second extension terminating in a tool receiving loop formed by the ends of said wire, said extensions and curved portion of said part providing three spaced points of clamping contact about a conductor on each of said clamping sections when engaged therewith.

---

**2,391,429**
**DEVICE FOR INTERCHANGING BOWS OR ORNAMENTS ON SHOES**
**Evelyn Z. Lipari, New York, N. Y.**
**Application June 9, 1943, Serial No. 490,160**
**3 Claims. (Cl. 2—245)**

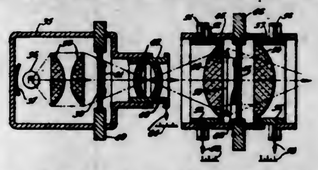


1. A device of the class described having a pair of articles one of which comprises an ornament for the other and a cloth piece attached to one of said articles with a second cloth piece superimposed on said cloth piece and attached thereto at spaced points providing relatively free portions and a third piece of cloth attached to the other of said pair of articles, adjustable means connecting together said second and third pieces of cloth for adjustably connecting said pair of articles, comprising a strap, fastening elements between the ends of said strap and said second piece of cloth, and means mounting said strap in position adjustably on said third piece of cloth to hold the articles in various turned positions relative to each other in the engaged positions of said fastening elements.

---

**2,391,430**
**CAMERA AND PROJECTOR**
**Joseph J. Macek, Montclair, N. J.**
**Application December 2, 1942, Serial No. 467,566**
**7 Claims. (Cl. 88—24)**

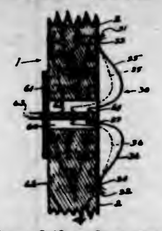
1. Apparatus of the class described comprising a housing, a translucent image receiving member within said housing, means including a lens for forming a desired image on said member, a second lens interposed between said first-mentioned lens and said member, a lens on the opposite side of said member arranged to magnify the image formed thereon, and means connected with said housing for retaining said second lens and said lens on the opposite side of said member in such manner as to enable adjustment thereof toward



and from said member while maintaining the same at all times spaced less than their focal lengths from said member.

---

**2,391,431**
**FRICTION DEVICE FOR VERTICALLY SLIDING WINDOW SASHES**
**Louis A. Mackinnberg, Oklahoma City, Okla.**
**Application April 5, 1944, Serial No. 529,888**
**2 Claims. (Cl. 292—76)**



1. In a device of the class described, the combination with a vertically disposed window frame member having a race for receiving the edge of a vertically slidable window sash, said member having an indentation in its race, of: a blade-type spring having a central portion adapted to nest within said indentation, said portion being of a depth less than the depth of said indentation; other portions of said spring, one at each side of said central portion, and normally spaced from the surface of said race; and means for adjustably moving said central portion of the spring toward the bottom of said indentation.

---

**2,391,432**
**PROCESS OF MANUFACTURING MOLDED PLASTIC DIE MEMBERS WITH ELECTRIC HEATING ELEMENTS EMBODIED THEREIN**
**Charles F. Marschner, Normandy, Mo., and Edward W. Bryan, Arcadia, Calif., assignors to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland**
**Application May 8, 1943, Serial No. 486,268**
**5 Claims. (Cl. 219—19)**



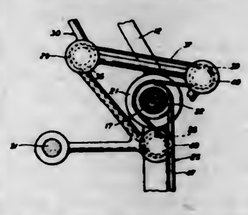
1. The process of manufacturing molded die members having electric heating elements embodied therein which consists in applying to a support a diagram showing the resistance wire layout desired for the heating element, placing transparent material over said diagram, covering said transparent material with netting through which said diagram may be observed, positioning a resistance wire on said netting along said wiring line of said diagram, cementing to said netting the resistance wire thus positioned thereon,



stripping from said transparent sheet said netting with said resistance wire cemented thereto, and then incorporating in the body of the die member during the process of molding the same said netting with said resistance wire cemented thereto.

---

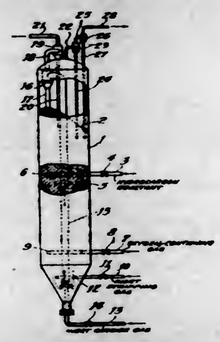
**2,391,433**
**APPARATUS FOR MAKING RETRACTILE CORDS**
**Victor S. Martin, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application March 10, 1944, Serial No. 525,959**
**6 Claims. (Cl. 87—31)**



1. In an apparatus for making retractile cords, an axial take-up capstan, means for rotating the capstan to coil a cord thereon, a belt for pressing a covered cord coiled on the capstan against the capstan, and a system of pulleys for mounting the belt adjacent to the capstan.

---

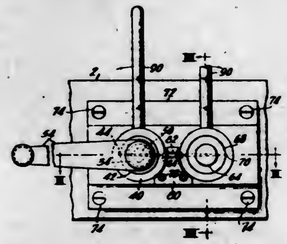
**2,391,434**
**METHOD OF CARRYING OUT CATALYST REACTIONS**
**Jerry McAfee, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application March 8, 1943, Serial No. 478,487**
**4 Claims. (Cl. 196—52)**



1. A process for the catalytic conversion of hydrocarbons which comprises passing subdivided solid catalyst downwardly through a vertical contacting zone, maintaining the upper portion of said zone at hydrocarbon conversion temperature and the lower portion thereof at combustion temperature, introducing oxygen-containing gas to said lower portion of the contacting zone to burn carbonaceous matter from the catalyst in this portion of said zone, introducing the hydrocarbon reactant to said zone at a point intermediate said upper and lower portions to commingle with the combustion gases formed in said lower portion, passing the resultant mixture of hydrocarbons and combustion gases upwardly through said upper portion of said zone in countercurrent contact with the catalyst descending therethrough, thereby depositing said carbonaceous matter on the catalyst, removing regenerated catalyst from the lower portion of the contacting zone and returning the same to the upper portion of said zone above the point of introduction of the hydrocarbon reactant.

---

**2,391,435**
**GRIP MECHANISM FOR TESTING MACHINES**
**Frederick A. Meiser, Gary, Ind.**
**Application April 20, 1944, Serial No. 531,939**
**6 Claims. (Cl. 24—263)**



1. Grip mechanism for the test piece in a tensile testing machine comprising a pair of opposed grips, a gripping surface on each grip, one of said grips having a wedge surface on the side opposite said gripping surface, a corresponding wedge surface on said machine, said last named grip having a slot therein, a reciprocating pin mounted for movement into and out of said slot, a shaft for supporting said pin, means for rotating said shaft to cause relative movement of said grips, a screw mounted on said shaft, a stationary nut in engagement with said screw and means for rotating said screw to move said pin into and out of said slot.

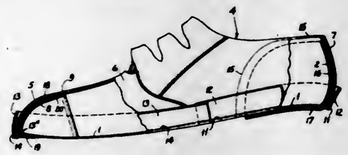
---

**2,391,436**
**OVEN-WALL PANEL**
**William J. Miskella, Cleveland, Ohio**
**Application June 24, 1944, Serial No. 541,973**
**5 Claims. (Cl. 189—34)**



1. A thermal-insulating panel comprising, a substantially plane rear wall provided with a flange bent toward the front of the panel, a substantially plane front wall spaced from the rear wall and provided with a flange bent toward the rear of the panel, the front wall flange overlying the rear wall flange and overhanging the rear of the panel, a reflective non-weldable substance coated on the front wall, and a welding strip interposed between the flanges, the welding strip being welded to the rear wall flange and being welded to the front wall flange in that portion of the flange overhanging the rear of the panel.

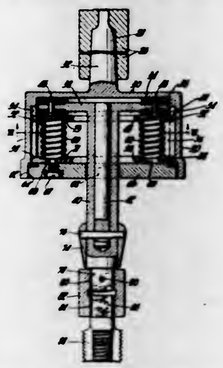
**2,391,437**
**SHOE**
**Abram Moskowitz and William S. Milius, St. Louis, Mo.**
**Application September 1, 1944, Serial No. 552,320**
**5 Claims. (Cl. 36—19.5)**



1. In a shoe, an upper having a toe portion, a sole assembly including an inner sole, a lining member in the toe portion of said upper, said upper and said inner sole being stitched together along complementary side margins, and being relatively unstitched along complementary toe margins, said toe lining member and said inner sole being stitched together along complementary margins, stiffening means adhesively secured to the inner surface of the toe portion of said upper, a binding strip having one side edge stitched to the lower edge of said upper, and its opposite edge adhesively secured to the sole assembly.

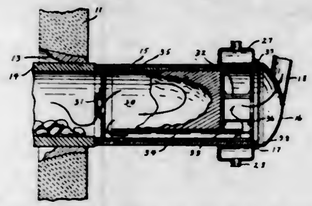
---

**2,391,438**
**TOOL DRIVER**
**William Muir, Munhall, Pa.**
**Application March 9, 1944, Serial No. 525,752**
**2 Claims. (Cl. 10—135)**



1. A device of the character described, comprising, in combination, a chambered housing, means for transmitting a torque thereto, a disc within said housing having friction facings secured to recessed seats formed in the upper and lower faces of said disc, means secured to said disc for engagement with a rotary cutting tool, an upper plate notched at its periphery for engagement with a rib formed on said housing, a similar lower notched plate, springs positioned in depressed seats formed in said plates and acting to press said disc into coaction with said housing, a base having a screw-threaded connection with said housing for varying the magnitude of pressure exerted by said springs, and a screw passing through said base and entering one of a series of apertures in said bottom plate.

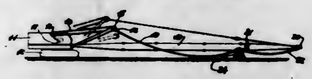
**2,391,439**
**RETORT CONSTRUCTION**
**Daniel L. Newkirk, Inkster, and Elbert E. Ensign, Ypsilanti, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application August 11, 1943, Serial No. 498,210**
**4 Claims. (Cl. 266—15)**



1. In a retort furnace, a furnace, a tube supported therein and having an end extending therefrom, a circumferential abutment thereon, an exhaust collection system mounted outside of said furnace and substantially aligned with the end of said tube, an exhaust header pivotally mounted on said exhaust system, an evacuation tube fixedly secured to said header and extending therefrom, a cover fixedly secured to the lower end of said evacuation tube, expansible means in said evacuation tube intermediate said header and said cover, a swingable connection between said evacuation system and said header whereby said cover may be swung into and out of engagement with the end of said tube, and compressible sealing means between said tube and said cover and said abutment adapted to be compressed therebetween solely in response to atmospheric pressure when the interior of said tube is evacuated.

---

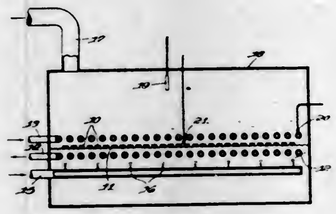
**2,391,440**
**CRANE BOOM SUSPENSION**
**George Y. Anderson, Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware**
**Application October 21, 1944, Serial No. 559,778**
**6 Claims. (Cl. 212—144)**



1. In a mobile crane the combination of: a main frame; a boom, having its foot pivotally supported by the main frame; a strut, having its foot pivotally supported by the main frame, adjacent the foot of the boom; means for raising the strut, and supporting it raised; attaching means on the boom, located intermediate the middle and the outer end of the boom; fixed-length boom-suspension means, capable of extending from the top of the strut to the above-mentioned attaching means; and auxiliary fixed length boom-suspension means, capable of attachment to the boom-suspension means and to the outer end of the boom, for alternative support of the boom, when the first mentioned boom suspension means is detached from the attaching means; whereby alternatively to directly support the boom at its outer end when the boom is raised for operating, and to support the boom at an intermediate point at an appreciable angle when the boom is lowered for overhead clearance in traveling.



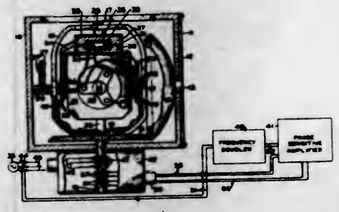
**2,391,441**
**DRYING RAW ORGANIC MATERIALS**
**John M. Baer, Chicago, Ill., assignor to The Guardite Corporation, a corporation of Illinois**
**Application November 8, 1943, Serial No. 509,481**
**3 Claims. (Cl. 34—15)**



1. In the drying of cellular organic products naturally containing a large percentage of moisture, the steps of subjecting the product in small particles in thin layers in an enclosed chamber forming a drying zone to a reduced pressure in an atmosphere of steam substantially free from air, supplying heat to the product from a source of radiant energy in the chamber close to the product having a temperature within the drying zone markedly in excess of the temperature of saturated steam under the prevailing reduced pressure in the chamber, maintaining the product at a temperature of approximately 100° to 120° F. during the greater part of the drying operation, and maintaining the chamber temperature during the same time at 30° to 45° F. above the temperature of the product.

---

**2,391,442**
**GYRO MAGNETIC COMPASS**
**Lennox F. Beach, Merrick, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York**
**Application March 21, 1942, Serial No. 435,622**
**5 Claims. (Cl. 33—226)**

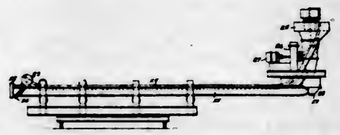


5. A gyro magnetic compass comprising a directional gyro including a vertical ring mounted for freedom about a normally vertical axis and a rotor bearing case rotatably supported on said ring on a normally horizontal axis, means for applying a torque to said gyro about said horizontal axis in either direction to precess said gyro in azimuth in either direction, a flux valve carried by the rotor bearing case of said gyro and positioned in azimuth thereby for generating signal voltages having a magnitude and a phase sense depending upon the position of said valve in the earth's magnetic field, and electrical means including phase-sensitive means responsive to the output signal voltages of said flux valve for controlling said torque-applying means to operate in a direction dependent upon the phase sense of said flux valve output voltages.



---

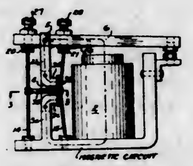
**2,391,443**
**REMOVAL OF DEPOSITS FROM THE INTERIOR SURFACES OF COKE OVENS**
**Albert Leslie Bruton, London, England, assignor to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois**
**Application October 28, 1942, Serial No. 463,584**
**In Great Britain October 28, 1941**
**16 Claims. (Cl. 202—241)**



1. A method of removing deposit from the wall of a coking oven while said oven is hot which consists in pushing said deposit from said wall and at the same time applying suction to said wall in rear of said pushing action, cleaning the fluid used in said suction action and returning it while still warm to the region where said suction action is being applied to said wall.

---

**2,391,444**
**SELF-LOCKING RELAY**
**Lyndon W. Burch, Pelham, N. Y.**
**Application December 8, 1944, Serial No. 567,290**
**15 Claims. (Cl. 200—87)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



1. In an electrical relay, frame means adapted to be secured relative to an electromagnet, a relay armature and means pivotally securing said armature to said frame means, said armature having a portion thereof extending into magnetic coaction with said electromagnet and adapted to be pivotally moved relative to said support means to close a circuit between a pair of electrical contacts upon energization of said electromagnet, and spring means adapted to abut between said armature and said frame means, and means whereby said spring means is caused to buckle when said electromagnet is energized, said spring means being adapted to be substantially straight when said electromagnet is deenergized, the arrangement being such that said spring means offers initially high resistance to buckling when straight, but low resistance to maintenance of buckled position after the initial high resistance has been overcome.

2,391,445
**COUNTER PORTION FOR SHOES**
Eli A. Cohen, Stoneham, Mass.
Application July 8, 1944, Serial No. 543,976
3 Claims. (Cl. 36—68)



1. A two-ply counter portion comprising an outer integument and as an inner member a fibreboard ply having a thermoplastic coating presenting an embossed exposed surface.

---

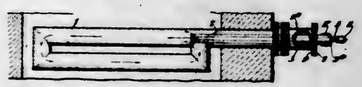
2,391,446
**METHOD OF MAKING COUNTER PORTIONS**
Eli A. Cohen, Stoneham, Mass.
Original application July 8, 1944, Serial No. 543,976. Divided and this application December 11, 1944, Serial No. 567,691
4 Claims. (Cl. 12—146)



1. The process of making molded counter portions which consists in assembling an outer integument with an inner ply of fibreboard coated with thermoplastic material, embossing the exposed face of the inner ply to present a patterned surface, and molding the two plies in assembled relation into the shape of a counter with inturned base flange.

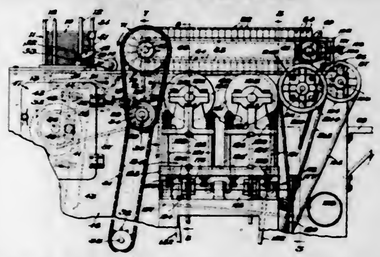
---

2,391,447
**RADIANT HEATER**
Dexter Edge, Gary, Ind.
Continuation of application Serial No. 348,478, July 30, 1940. This application October 15, 1942, Serial No. 462,183
2 Claims. (Cl. 126—91)



1. A radiant heater including an endless tube loop with a tube arm projecting therefrom in substantial alignment with one tube side, superimposed radially spaced gas and air pipes inserted in the tube arm with their outlets substantially flush relative one another and adjacent the tube loop and arm junction, and an annular series of velocity increasing orifices for the outlet of the air pipe, the gas pipe being inside the air pipe and the latter being radially spaced inside the tube arm.

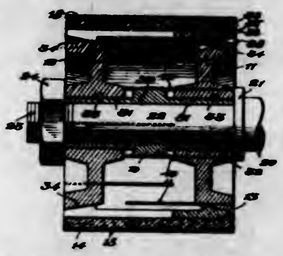
2,391,448
**SANDING MACHINE**
Jack P. Elliott, Westfield, Pa., assignor to Eberle Tanning Company, Westfield, Pa., a corporation of Pennsylvania
Application March 31, 1942, Serial No. 437,070
10 Claims. (Cl. 51—38)



1. In a sanding machine, the combination of a work hopper, a reciprocating mechanism for positively advancing the work units one at a time, sanding mechanism arranged in the path of the work, means for actuating the sanding mechanism, and a continuous conveyor mechanism movable longitudinally of the machine for progressively propelling the work units forward without rotating them, the conveyor mechanism including independently operable vertically movable means for holding the work units in contact with the sanding mechanism.

---

2,391,449
**SANDING DRUM**
Jack P. Elliott, Westfield, Pa., assignor to Eberle Tanning Company, Westfield, Pa., a corporation of Pennsylvania
Application March 31, 1942, Serial No. 437,071
4 Claims. (Cl. 51—190)



1. A sanding drum comprising an internal sleeve, a pair of tapered heads secured on opposite ends thereof, a metal ring surrounding said heads, and a sanding medium around the periphery of the ring, the ring being provided with a plurality of longitudinally extending expansion slots.

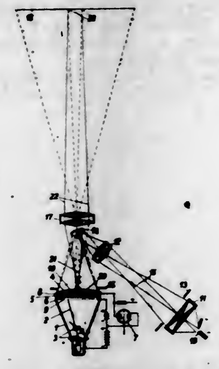
---

2,391,450
**METHOD AND APPARATUS FOR REPRODUCING TELEVISION PICTURES**
Friedrich Ernst Fischer, Zurich-Erlenbach, Switzerland
Application May 11, 1940, Serial No. 334,520
In Switzerland November 8, 1939
9 Claims. (Cl. 178—7.5)

1. Apparatus for the reproduction of a television picture, characterised by a cathode ray



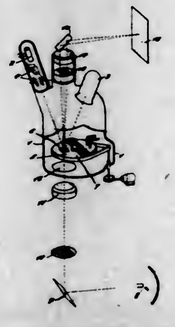
tube with at least two ray-deflecting systems and at least one control device for the cathode ray, and containing a medium which is stretched out flat in the form of a screen and which is deformable by static electric forces within successive elemental areas to provide numerous lens surfaces, said medium being provided with at least one electrically conducting electrode, and a



separate light source from which the light is projected, by lens and mirror systems, to the medium of the cathode ray tube and thence on to the projection screen by way of at least one objective, the arrangement being so contrived that no light from the separate light source reaches the projection screen from raster elements, the deformation of which corresponds to the brightness O.

---

2,391,451
**PROCESS AND APPLIANCE FOR PROJECTING TELEVISION PICTURES**
Friedrich Ernst Fischer, Zurich, Switzerland
Application June 10, 1941, Serial No. 397,453
In Switzerland June 11, 1940
13 Claims. (Cl. 178—7.5)

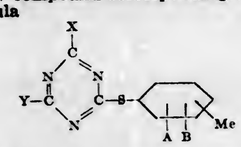


1. Apparatus for producing a television picture by means of a cathode ray tube and a separate light source, comprising, in combination with the cathode ray tube and separate source of light, a moving liquid film in the path of the cathode and light rays and adapted to be deformed by the cathode ray into differently refracting areas in accordance with the changing characteristics of the cathode ray, and means for setting said film into motion.

---

2,391,452
**1,3,5-TRIAZINYL-PHENYL-SULPHIDES CARRYING A METALLIC RADICAL**
Ernst A. H. Friedheim, New York, N. Y.
No Drawing. Application October 1, 1942, Serial No. 460,413
9 Claims. (Cl. 260—242)

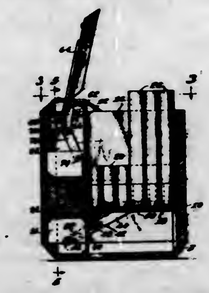
1. A new compound corresponding to the general formula



wherein X and Y are selected from the group consisting of halogens and amino radicals, A and B are selected from the group consisting of H, OH, and halogens, and Me represents a metallic radical selected from the group consisting of —$SbO_3H_2$, —$PO_3H_2$, Hg—halogen, HgO—acyl, and —$SeO_3H_2$ radicals.

---

2,391,453
**DISPLAY CONTAINER**
Max L. Goldbert, New York, N. Y.
Application April 20, 1943, Serial No. 483,825
5 Claims. (Cl. 312—73)



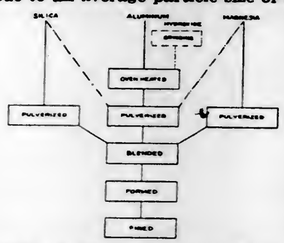
1. A display container comprising an open-ended casing, a septum vertically secured therein dividing the casing into two compartments, a cover for said casing pivotally secured thereto, a carriage in one compartment, a weight in the other compartment, a connection between the weight and the carriage, and a connection between the weight and the cover, movement of the weight in one vertical direction causing movement of the carriage and of the cover, in the opposite vertical direction.

---

2,391,454
**PROCESS OF MAKING ALUMINOUS PRODUCTS**
John Allen Heany, New Haven, Conn., assignor to Heavy Industrial Ceramic Corporation, Rochester, N. Y., a corporation of New York
Application April 6, 1942, Serial No. 437,789
16 Claims. (Cl. 106—62)

1. A process of making an aluminous product which is uniformly hard, dense, vitreous, and non-

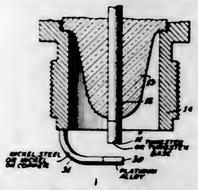
porous which comprises partially dehydrating aluminum hydroxide, dry grinding the dehydrated hydroxide to an average particle size of less than




50 microns, blending the ground particles with similarly sized particles of catalysts, forming and firing.

---

2,391,455
**SPARK PLUG AND ELECTRODE THEREFOR**
**Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application June 22, 1943, Serial No. 491,748**
**4 Claims. (Cl. 123—169)**



1. A spark plug for use in aviation engines comprising a pair of spaced electrodes, one of said electrodes being formed predominantly of platinum and the other of said electrodes being formed predominantly of tungsten.

---

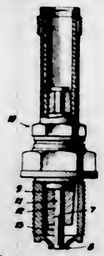
2,391,456
**SPARK PLUG ELECTRODE**
**Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application January 29, 1944, Serial No. 520,144**
**8 Claims. (Cl. 123—169)**



1. A spark plug comprising an electrode including a core and a sheath surrounding said core with the entire inner surface of said sheath in direct electrically conductive relation with said core, said sheath comprising a material selected from the group consisting of platinum and platinum base alloys, and said core consisting of a material selected from the group consisting of molybdenum, molybdenum base sintered metal compositions, tungsten, tungsten base sintered metal compositions, and tungsten-molybdenum compositions.

---

2,391,457
**SPARK PLUG ELECTRODE CONSTRUCTION**
**Chester F. Carlson, New York, N. Y., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application February 1, 1944, Serial No. 520,583**
**8 Claims. (Cl. 123—169)**



1. A spark plug electrode comprising a wire having a core of a high thermal conductivity arranged to effectively disperse sparking heat from said electrode and a sheath integrally bonded thereto formed of a material of good resistance to spark erosion, said electrode wire being doubled upon itself to provide a sparking tip in the form of a loop, the ends of said wire being remote from the sparking area of said electrode.

---

2,391,458
**SPARK GAP ELECTRODE**
**Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application March 14, 1944, Serial No. 526,350**
**8 Claims. (Cl. 123—169)**



1. A spark gap electrode containing rhenium.

---

2,391,459
**SPARK PLUG AND ELECTRODE THEREFOR**
**Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware**
**Application May 2, 1944, Serial No. 533,689**
**10 Claims. (Cl. 123—169)**

1. A spark plug comprising an insulator having a passage therethrough, a center electrode spindle extending through said passage, the sparking end of said electrode being formed in the shape of a closed loop having its axis perpendicular to said spindle, a conductive shell surrounding said in-

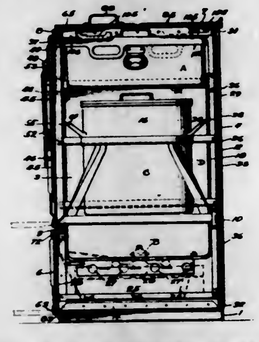




sulator and a rod extending through the central portion of said loop and being integrally united to at least one peripheral point of said shell, said rod comprising the other electrode of said plug.

---

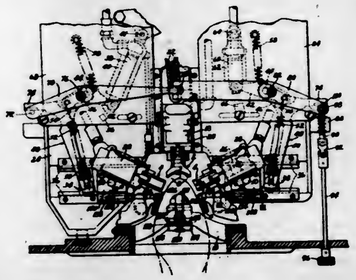
2,391,460
**PORTABLE RANGE**
**Styles T. Howard, Jeffersonville, Ind.**
**Application March 19, 1941, Serial No. 384,961**
**4 Claims. (Cl. 126—1)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**



4. A portable range comprising a casing having a closed, substantially unobstructed interior, a portable heating unit for said range, said casing having pairs of opposite slides mounted at different levels on the inner faces of the side walls of the casing, said slides being adapted to support the heating unit at various levels within the casing, a receptacle of substantially smaller cross section than the casing, a cradle forming a skeleton support for said receptacle and slidably supported on a pair of said slides, and a covered cooking utensil of substantially the same shape in plan as the interior of the casing adapted to be supported in the top of said casing and of such size as to extend substantially to the side walls of the casing whereby a restricted passage is formed between the utensil and casing thereby retarding the passage of the gases and acting as a flue.

---

2,391,461
**SHOE MACHINE**
**Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application May 4, 1944, Serial No. 534,052**
**26 Claims. (Cl. 12—14)**



1. In a shoe machine, the combination with means for operating on a shoe including an insole mounted on a last, of means for positioning the shoe bodily both lengthwise and laterally in proper relation to said operating means by engagement with the insole alone in a single hole previously formed therein, and additional means comprising side gages for determining the position of the shoe with respect to lateral swinging movement.

---

2,391,462
**PREPARATION OF A PHOSPHATIDE COMPOSITION**
**Percy L. Julian, Maywood, and Edwin W. Meyer, Evanston, Ill., assignors, by mesne assignments, to American Lecithin Company, Cleveland, Ohio, a corporation of Ohio**
**No Drawing. Application July 25, 1941, Serial No. 403,990**
**8 Claims. (Cl. 252—1)**

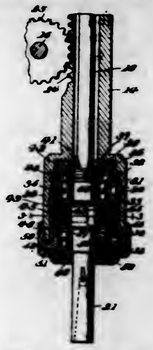
1. The process which comprises treating a vegetable phosphatide composition selected from the group consisting of those consisting essentially of phosphatides and those consisting essentially of a major quantity of phosphatide and the balance of which consists of a fatty carrier, with water to form an emulsion, thoroughly incorporating a small amount of a water-soluble acid selected from the group consisting of mineral acids and glycerol phosphoric acid in said emulsion in amount sufficient to reduce the pH value to a value of about 4.0 to 1.8, separating the bulk of the water from the phosphatide composition and recovering the dried phosphatide composition.

---

2,391,463
**CHIP BREAKING STRUCTURE**
**Edward J. Kingsbury, Keene, N. H., assignor to Kingsbury Machine Tool Corporation, Keene, N. H., a corporation of New Hampshire**
**Application December 28, 1943, Serial No. 515,941**
**8 Claims. (Cl. 77—5)**

1. In metal drilling and like machines, a rotatable drill spindle, a support for the spindle during its rotation, means for feeding said support, a threaded portion on said support, a threaded member engaged with said threaded portion, thrust bearing means between said spindle and threaded member, and means actuated by

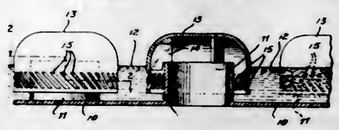
the spindle in its rotation to effect limited arcuate oscillatory movements of the threaded



member and thereby cause continuous axial reciprocation of the spindle relative to said support.

---

2,391,464
**VAPOR AND LIQUID CONTACT DEVICE**
James M. Larsen, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application November 21, 1941, Serial No. 419,957
8 Claims. (Cl. 261—114)



1. A bubble tray comprising a liquid holding portion, a vapor riser and a cap for the riser, the cap having a substantially vertically extending portion normally submerged in the liquid on the tray, said portion being provided with a plurality of spaced, elongated vapor passages having spaced substantially parallel longer walls extending at an angle to the vertical, the walls of the passages being arranged and disposed in the normally submerged portion of the cap so that part at least of the longer walls of one passage are in substantial vertical alignment with a portion of one of the longer walls of an adjacent passage so that vapor flowing from a plurality of passages will pass through substantially the same portion of the liquid on the tray.

---

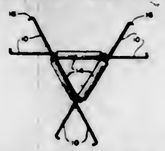
2,391,465
**SYNTHESIS OF VINYL CHLORIDE**
Wilbur A. Lazier, Wilmington, and Gerald M. Whitman, Claymont, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 21, 1942, Serial No. 462,834
8 Claims. (Cl. 260—656)

1. The process for the preparation of vinyl chloride, which comprises passing a mixture of acetylene and hydrogen chloride over a preformed catalyst consisting of thoroughly dispersed mercurous chloride commingled with a porous carrier by impregnating said carrier with an aqueous solution of mercuric chloride and then reducing the latter in situ to the mercurous state.

5. As a catalyst composition for the synthesis of vinyl chloride only thoroughly dispersed mercurous chloride commingled with and at least partially supported on a porous carrier, said catalyst having been prepared by impregnating the porous carrier with an aqueous solution of mercuric chloride and then reducing the latter in situ to the mercurous state.

---

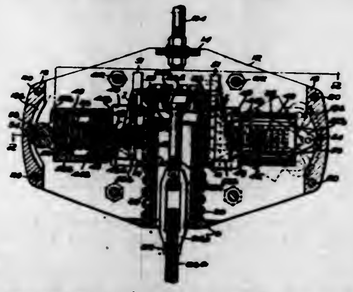
2,391,466
**ADJUSTABLE TRIANGLE**
Irvin Levin, Asbury Park, N. J.
Application December 19, 1944, Serial No. 568,921
3 Claims. (Cl. 248—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A support of the class described comprising wires of a refractory metal bent at an angle and arranged so as to form an equilateral support, said wires of a refractory metal bent at an angle and sliding longitudinally through small passages extending the length of short refractory tubes of suitable length, said wires of a refractory metal, bent at an angle, are curved outwardly at their extremities so as to engage the ends of said short refractory tubes as stopping means when said equilateral support is in the completely opened position.

---

2,391,467
**SUPPORTING MEANS**
Albert J. Loepsinger, Providence, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware
Application March 29, 1943, Serial No. 481,057
6 Claims. (Cl. 248—54)



1. Supporting means for a load of known value subject to displacement from a predetermined position comprising, in combination, a fixed element; a movable element moved by the load; primary spring means interposed between said elements acting parallel to the line of movement of said load exerting a supporting force on the movable element equal to the known value of the load when the latter is at said predetermined position and exerting a supporting force varying in accordance with the displacement of said load from said predetermined position; and auxiliary spring means acting on said movable element at



right angles to said line of movement when the load is at said predetermined position and being moved by the movement of the load to act at an angle to said line of movement when the load is displaced; the force of said auxiliary spring means being varied in accordance with the displacement of the load from said predetermined position and being so applied that its component parallel to the said line of movement of the load substantially compensates for the variation in the supporting force of the primary spring means.

---

2,391,468
**METHOD OF MAKING MANIFOLDS**
Robert Long, Muskegon, Mich., assignor to American Porcelain Enamel Company, Muskegon, Mich., a corporation of Michigan
No Drawing. Application February 10, 1942, Serial No. 430,239
2 Claims. (Cl. 117—129)

1. The method of treating a metal manifold which comprises, forming a first frit of the following ingredients:

| | |
|---|---|
| Feldspar | About 185 lbs. |
| Quartz | About 209¼ lbs. |
| Rasorite | About 209 lbs. |
| Soda ash | About 43½ lbs. |
| Sodium nitrite | About 34¼ lbs. |
| Fluorspar | About 44¾ lbs. |
| Manganese dioxide | About 14½ lbs. |
| Cobalt oxide | About 4 lbs. 13 oz. |
| Nickel oxide | About 3 lbs. 12 oz. |

forming a second frit of the following ingredients:

| | |
|---|---|
| Rasorite | About 195¼ lbs. |
| Feldspar | About 217½ lbs. |
| Quartz | About 140½ lbs. |
| Soda ash | About 52 lbs. |
| Soda nitrate | About 25 lbs. |
| Fluorspar | About 43½ lbs. |
| Zircon | About 33¾ lbs. |
| Calcium carbonate | About 24¼ lbs. |
| Manganese dioxide | About 11 lbs. |
| Nickel oxide | About 4 lbs. 10 oz. |
| Cobalt oxide | About 3 lbs. |

taking nine parts by weight of the first frit with one part by weight of the second frit and milling said parts with a mill addition comprising the following components in the following percentages of the sum of said parts:

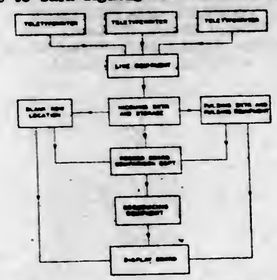
| | Per cent |
|---|---|
| Clay | About 7 |
| Feldspar | About 10.5 |
| Borax | About .75 |
| Sodium nitrite | About .125 |
| Magnesium carbonate | About .125 |
| Water | About 50 |

to form an enamel, coating at least one surface of said manifold with said enamel, drying said coating, and burning said coating.

---

2,391,469
**COMMUNICATION AND POSTING SYSTEM**
Joseph C. Marshall, Baldwin, and Harold F. May, Valley Stream, N. Y., assignors to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application September 2, 1944, Serial No. 552,428
20 Claims. (Cl. 177—353)

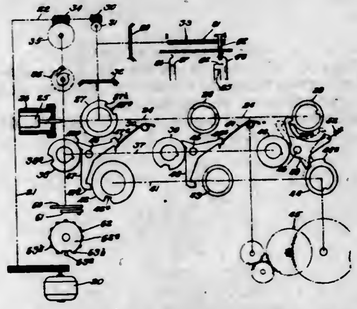
2. A system for posting information regarding a plurality of items, comprising posting board apparatus embodying a plurality of groups of electro-responsive signal storage devices, assignable to different ones of said items, and actuatable to different settings for storing data in regard thereto, new position posting devices respectively associated with said groups of signal storage devices and actuatable selectively to display different indicia, a source of incoming messages comprising item designation and data signals, means responsive to said signals for automatically com-



paring the incoming data with certain data currently stored in said groups of signal storage devices, and means controlled by said comparing means for actuating certain of said new position posting devices to cause them to display indicia representative of the serial order in which the items should be displayed in accordance with the relative values represented by the compared data.

---

2,391,470
**AUTOMATIC TUNING APPARATUS**
Richard W. May, Cedar Rapids, Iowa, assignor to Collins Radio Company, a corporation of Iowa
Application May 17, 1943, Serial No. 487,305
11 Claims. (Cl. 192—142)

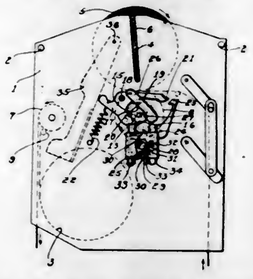


1. In automatic tuning apparatus for positioning a rotatable shaft, including reversible drive means adapted to rotate the shaft through a plurality of revolutions, a slip clutch in the connection between the drive means and the shaft, a plurality of stopping means, each being adapted to stop the shaft at a predetermined point anywhere in its range of rotation, and selecting means for rendering operative a desired one of said stop means, this selecting means including a rotatable selector switch, a limit switch including: a threaded shaft member; switch means adjacent at least one end of the threaded member; a nut on said shaft; an actuating member rotatably mounted on said nut and having appreciable frictional engagement therewith, one of said members being adapted to be rotated by and in accordance with rotation of the drive means, movement of the actuating member along the

threaded shaft being adapted to operate the switch means; and means for causing the nut to rotate with the threaded shaft at the desired limits of movement of the actuating member.

---

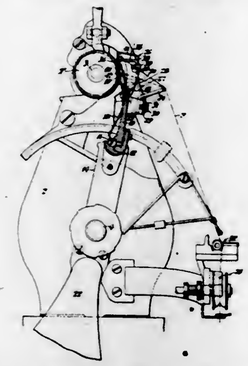
2,391,471
**TOWEL CABINET TIMER**
Ramiel Morris, St. Louis, Mo.
Application April 4, 1942, Serial No. 437,621
4 Claims. (Cl. 271—2.3)



1. In a towel cabinet adapted to have toweling fed therethrough, stop mechanism for arresting the toweling and set by the latter by withdrawal of a predetermined length of toweling, a rotary weight-carrier movable with said toweling for only a portion of the towel withdrawal movement, means between said carrier and stop mechanism and operable for releasing of the latter, and freely bodily movable weights confined in said carrier to control the means for releasing said stop mechanism.

---

2,391,472
**WINDING MACHINE**
Robert E. Morton, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application November 3, 1942, Serial No. 464,367
22 Claims. (Cl. 242—43)



1. In a winding machine, means for rotating a yarn-carrier, means for traversing yarn lengthwise of the carrier to wind a package thereon, a member for holding the yarn to prevent its traverse by the traversing means, means for shifting said member into different positions with a step-by-step movement to cause it to eventually release the yarn to permit it to be traversed by the traversing means, and resilient means for returning said member to initial position after it releases the yarn.

---

2,391,473
**AUTOMATIC CONTROL FOR FIREARMS**
Charles F. Mullen, Long Branch, N. J., assignor to Central Aircraft Corporation, Keyport, N. J., a corporation of Delaware
Application November 25, 1942, Serial No. 466,912
2 Claims. (Cl. 89—28)



1. In a device of the class described for use in an airplane, the combination of a firearm, means mounting said firearm for rotation about a vertical axis and about a horizontal axis, a light sensitive photocell mounted on said firearm at a distance from said horizontal and vertical axes, an enclosed light source spaced from said photocell and fixed with respect to said mounting and comprising a screen having an opaque portion and a light transmitting portion, said light transmitting portion having a contour constructed, positioned and arranged to direct light on said photocell when parts of the airplane are in the line of gun fire and means operatively connected to the photocell to render the firing mechanism inoperative while light is directed on said photocell.

---

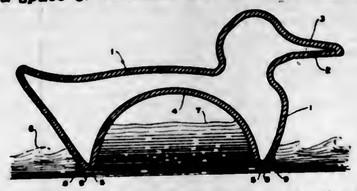
2,391,474
**FOOD COMPOSITION**
Sidney Musher, New York, N. Y., assignor to Musher Foundation Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 4, 1943, Serial No. 489,691
11 Claims. (Cl. 99—83)

1. A food composition comprising a heated aqueous dispersion of a combination of a finely divided special fraction of dehulled oats and gelatin, said special fraction of dehulled oats containing in excess of about 20% total protein and having a relatively low starch and a relatively high protein content as compared to dehulled oats, said gelatin being present in an amount of between 10% and 35% against the weight of the oat fraction, said composition being substantially free of stringy characteristics.

---

2,391,475
**BUOYANT ARTICLE**
Joseph B. Newhardt, Berwyn, Ill., assignor of one-half to Charles H. Angell, Danville, Ill.
Application June 24, 1940, Serial No. 342,065
3 Claims. (Cl. 43—3)

1. A waterfowl decoy having a substantially hollow body formed by walls of material, such as soft rubber composition, possessing sufficient rigidity to retain the intended shape of the decoy without inflation and sufficiently resilient to permit collapsing the decoy when not in service, said walls including a closed bottom of substantially concave contour defining a space of sufficient size to impart floating

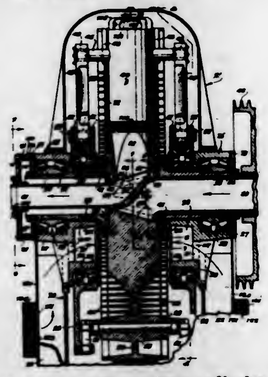


stability to the decoy without the aid of added weight or ballast.

---



2,391,476
**MACHINE FOR UTILIZING POWER**
Joseph S. Parenti, Buffalo, N. Y.
Application May 19, 1942, Serial No. 443,666
19 Claims. (Cl. 230—177)



1. A machine having rotary cylinders and pistons reciprocable in said cylinders, a pair of rings at opposite sides of said cylinders and mounted to rotate about an axis spaced from the axis of rotation of said cylinders, links connecting said ring and said cylinders for maintaining relative positions of said ring and said cylinders, and a pair of rods for each piston pivotally connected to said rings and to a piston, said rods being arranged to extend in planes substantially parallel with the axes of said pistons and cylinders when said rods transmit the greatest force to said pistons.

---

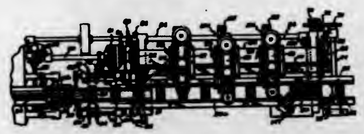
2,391,477
**SELF-SEALING FUEL TANK**
Ewell C. Phillips, Dayton, Ohio
Application July 11, 1941, Serial No. 401,990
7 Claims. (Cl. 154—43.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A container for liquids comprising an inner layer of fabric impregnated with a butadiene polymer and a layer of cattle hide, said two layers having sufficient strength to support the weight of the container and the contents thereof, a layer of shock-absorbing sponge rubber, a layer of crude rubber, and an outer layer of chrome-tanned cattle hide.

---

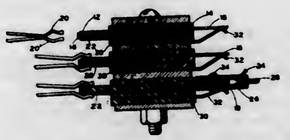
2,391,478
**DEVICE FOR TREATING STORAGE BATTERY CELL COVERS**
Oliver O. Rieser, Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application March 13, 1940, Serial No. 323,784, now Patent No. 2,342,012, dated February 15, 1944, which is a division of application Serial No. 182,789, December 31, 1937, now Patent No. 2,212,402, dated August 20, 1940. Divided and this application July 2, 1942, Serial No. 449,453
3 Claims. (Cl. 51—80)



1. In a machine of the class described, means for treating the corners of cell covers, said means comprising means for moving cell covers step-by-step in a straight line path, grinding means on each side of said path, said grinding means arranged in opposed pairs configured to contact the corner portions of cell covers when the pairs are moved inwardly in opposite directions, means for driving said grinding means, and means for moving said grinding means in against the corners of cell covers in timed relationship to the movements of said moving means, so as to contact and dress the corners of said cell covers during periods of rest thereof.

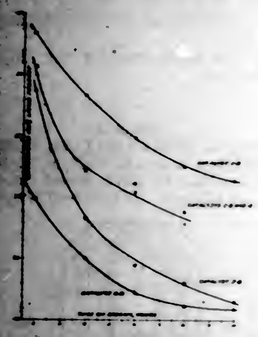
---

2,391,479
**SPRING CONNECTOR FOR SELECTORS**
Robert Rivers, Belmar, N. J.
Application August 14, 1943, Serial No. 498,715
4 Claims. (Cl. 177—353)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A selector comprising a bank of contacts for engagement by a movable contact arm, extensions on said contacts for electrical connection thereto, a shorting plate insulated from said bank of contacts, a portion of said shorting plate being slotted to provide a series of spring fingers so bent that each normally engages a mating contact extension and insulation means adapted to separate the adjacent spring finger of the shorting plate from a mating contact extension, while all of the other contact extensions remain mutually interconnected by the other spring fingers and shorting plate.

2,391,482
…ATMENT OF HYDROCARBONS
…Rothrauff, Chicago, Ill., assignor, by di… mesne assignments, of one-half to The …logg Company, Jersey City, N. J., a …n of Delaware, and one-half to Proc… …gement Company, Inc., Wilmington, … corporation of Delaware
…November 21, 1939, Serial No. 305,473
3 Claims. (Cl. 196—52)



…the catalytic conversion of hydrocarbon … silica gel containing other catalytic … employed as a catalyst and wherein the … is subjected to repeated regenerations … between conversion treatments to … carbonaceous deposits formed thereon … said conversion treatment; the improve… … comprises contacting the oil to be … under conversion conditions with a … gel containing silica prepared from an … whereby an alkaline-free catalyst … the activity of which is less sensitive … temperatures normally resulting from … treatment, periodically sepa… … catalyst from the oils being subjected … and subjecting the catalyst so … to regenerative treatment.

2,391,483
…OF FORMING CONTINUOUS … OF ANIMAL INTESTINES
…, Chicago, Ill., assignor to Wil… …, a corporation of Delaware
…17, 1944, Serial No. 536,055
…. (Cl. 57—164)



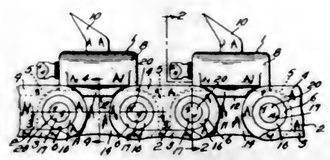


2,391,484
APPARATUS FOR TREATING AMMONIUM SULPHATE CRYSTALS
William Seymour, Sault Ste. Marie, Ontario, Canada, assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
Application August 3, 1940, Serial No. 350,873
1 Claim. (Cl. 34—57)



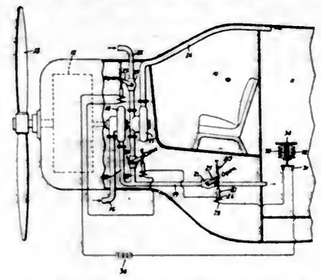
In a system for drying moist crystalline masses of salt into a substantially dried and non-caking form while simultaneously pneumatically conveying them to storage means therefor, a pneumatic-conveyor drier-conduit extending to the storage means, means for introducing hot drying gas into the conduit to simultaneously dry moist crystals by contact with hot gas while pneumatically conveying them through the conduit to storage means therefor at one end of the conduit; a device arranged to introduce moist crystals of said salt into said conduit beyond the point of introduction of hot gas but well in advance of the delivery end of the conduit for discharge to the storage means, said conduit having, at a location downstream of said salt introducing device, where the drying salt exhibits a tendency to cling thereto, a conduit section of flexible side-walls that are capable of being flexed from the exterior of the conduit, so that incrustations of said salt can be dislodged by merely flexing said conduit-section from its exterior.

2,391,485
CUTTER CHAIN
Leon E. Simmons, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 5, 1942, Serial No. 464,590
11 Claims. (Cl. 262—33)



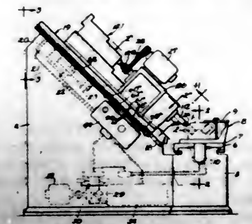
7. In a cutter chain, a chain block, and strap links pivotally connected to said block, said block comprising a central part and cooperating separate side parts, said strap links and said side block parts having cooperating trunnions and … for providing the … block and strap … to hold

2,391,486
AIRCRAFT SUPERCHARGING ARRANGEMENT
Chester W. Smith, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application October 26, 1939, Serial No. 301,419
2 Claims. (Cl. 98—1.5)



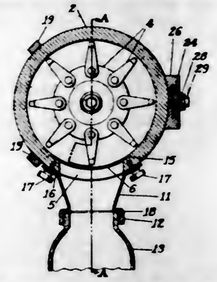
1. In an aircraft, the combination of means forming a compartment requiring air under pressure during flight of the aircraft and from which compartment said air is consumed during operation of the aircraft, compressor means having first and second stages, conduit means for connecting said compressor means to said compartment to supply compressed air thereto, said last named means including valves arranged to connect the compressor stages in parallel in one position of the valves and in series in another position of the valves, and means for operating said valves including a relay for each valve, an electric circuit for the relays including a contact making and breaking member and a pressure responsive device subject to pressure changes in the compartment and connected to said contact making and breaking member for automatically reversing the valve positions upon the compartment pressure dropping to a predetermined low value to connect the stages in series.

2,391,487
MACHINE TOOL
Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application February 26, 1937, Serial No. 127,967
8 Claims. (Cl. 77—1)



4. In a boring machine, a rotary boring spindle, a boring tool projecting laterally at one end of said spindle, a work support, means for producing relative reciprocatory movement between said support and said spindle parallel to the axis of said spindle, an electric meter connected to … spindle, means including a rotary com… …with an insulating segment for

2,391,480
**LABORATORY HAMMER MILL**
William H. Ross, Elias S. Shipley and Joseph F. Mullins, Washington, D. C., and John O. Hardesty, Hyattsville, Md., assignors to the United States of America as represented by the Secretary of Agriculture
Application January 18, 1943, Serial No. 472,682
3 Claims. (Cl. 241—100)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

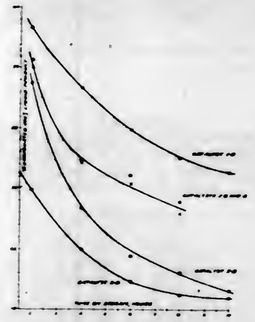


1. In a hammer mill having a plurality of rotatable hammers enclosed in a housing and air-impermeable, discharge-collecting means attached to said housing by an air-tight connection, a sealable door forming a side of said housing parallel to the plane of rotation of said hammers, hinging means attached to said door, said hinging means including a dovetail tenon member slidingly received by a complementary mortice member on said housing, an adjustable L-shaped retainer-plate the respective arms of which are adjacent said dovetail member and complementary mortice member, means to secure adjustably said dovetail member to the retainer plate, yieldable means positioned between the retainer plate and said complementary mortice member and sealing means positioned between said door and the adjacent edges of the housing, whereby an air-tight connection with said housing is effected when said door is in closed position, fastening means for securing said door in closed position, an inlet to said housing in said door adjacent to the axis of rotation of said hammers, and substantially air-tight means for introducing material into the housing through said inlet.

2,391,481
**CONVERSION OF HYDROCARBONS**
Robert F. Ruthruff, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware, and one-half to Process Management Company, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application November 21, 1939, Serial No. 305,472
5 Claims. (Cl. 196—52)

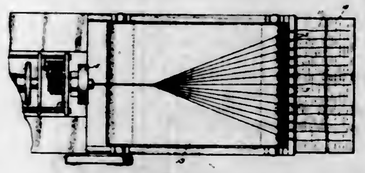
1. A process of converting high boiling hydrocarbons to low boiling hydrocarbons within the gasoline boiling range which comprises vaporizing a gas oil and passing the vapors for a time and at a temperature suitable for the required conversion in contact with a catalyst made by adding a hydrolyzable salt of aluminum and an acid to sodium silicate, the total acidity of the salt and acid being sufficient to neutralize the sodium silicate, and washing the resulting precipitate substantially free of soluble material.

2,391,482
**TREATMENT OF HYDROCARBONS**
Robert F. Ruthruff, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware, and one-half to Process Management Company, Inc., Wilmington, Del., a corporation of Delaware
Application November 21, 1939, Serial No. 305,473
3 Claims. (Cl. 196—52)



1. In the catalytic conversion of hydrocarbon oils wherein silica gel containing other catalytic agents is employed as a catalyst and wherein the catalyst is subjected to repeated regenerations by oxidation between conversion treatments to remove carbonaceous deposits formed thereon during said conversion treatment; the improvement which comprises contacting the oil to be converted under conversion conditions with a synthetic gel containing silica prepared from an alkyl silicate whereby an alkaline-free catalyst is obtained, the activity of which is less sensitive to high temperatures normally resulting from the regenerative treatment, periodically separating the catalyst from the oils being subjected to conversion and subjecting the catalyst so separated to regenerative treatment.

2,391,483
**METHOD OF FORMING CONTINUOUS STRANDS OF ANIMAL INTESTINES**
Theodore R. Selby, Chicago, Ill., assignor to Wilson & Co. Inc., a corporation of Delaware
Application May 17, 1944, Serial No. 536,055
7 Claims. (Cl. 57—164)



1. The method of forming split or whole animal intestines into strands of indefinite length, which comprises thoroughly soaking clean intestines in a bath to induce maximum adhesiveness, drawing the intestines from the bath, and then spinning the so-treated wet intestines while still wet and in a condition of maximum adhesiveness into a strand of indefinite length.

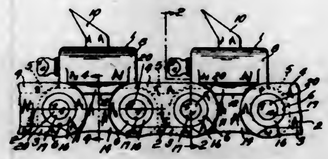


2,391,484
**APPARATUS FOR TREATING AMMONIUM SULPHATE CRYSTALS**
William Seymour, Sault Ste. Marie, Ontario, Canada, assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
Application August 3, 1940, Serial No. 350,873
1 Claim. (Cl. 34—57)



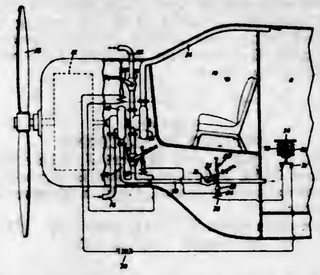
In a system for drying moist crystalline masses of salt into a substantially dried and non-caking form while simultaneously pneumatically conveying them to storage means therefor, a pneumatic-conveyor drier-conduit extending to the storage means, means for introducing hot drying gas into the conduit to simultaneously dry moist crystals by contact with hot gas while pneumatically conveying them through the conduit to storage means therefor at one end of the conduit; a device arranged to introduce moist crystals of said salt into said conduit beyond the point of introduction of hot gas but well in advance of the delivery end of the conduit for discharge to the storage means, said conduit having, at a location downstream of said salt introducing device, where the drying salt exhibits a tendency to cling thereto, a conduit section of flexible side-walls that are capable of being flexed from the exterior of the conduit, so that incrustations of said salt can be dislodged by merely flexing said conduit-section from its exterior.

2,391,485
**CUTTER CHAIN**
Leon E. Simmons, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 5, 1942, Serial No. 464,590
11 Claims. (Cl. 262—33)



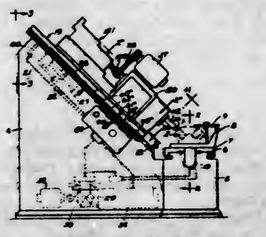
7. In a cutter chain, a chain block, and strap links pivotally connected to said block, said block comprising a central part and cooperating separate side parts, said strap links and said side block parts having cooperating trunnions and trunnion-receiving openings for providing the pivotal connections between the block and strap links, said central block part serving to hold said side block parts in spaced relation to maintain said trunnions and openings in cooperating relation, and said central and side block parts having registering bores coaxial with said pivotal connections, and holding elements arranged in said bores for holding said block parts together.

2,391,486
**AIRCRAFT SUPERCHARGING ARRANGEMENT**
Chester W. Smith, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application October 26, 1939, Serial No. 301,419
2 Claims. (Cl. 98—1.5)



1. In an aircraft, the combination of means forming a compartment requiring air under pressure during flight of the aircraft and from which compartment said air is consumed during operation of the aircraft, compressor means having first and second stages, conduit means for connecting said compressor means to said compartment to supply compressed air thereto, said last named means including valves arranged to connect the compressor stages in parallel in one position of the valves and in series in another position of the valves, and means for operating said valves including a relay for each valve, an electric circuit for the relays including a contact making and breaking member and a pressure responsive device subject to pressure changes in the compartment and connected to said contact making and breaking member for automatically reversing the valve positions upon the compartment pressure dropping to a predetermined low value to connect the stages in series.

2,391,487
**MACHINE TOOL**
Ira J. Saader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application February 26, 1937, Serial No. 127,967
8 Claims. (Cl. 77—1)

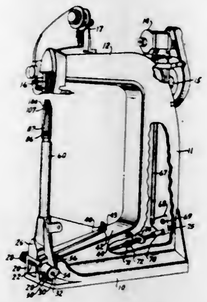


4. In a boring machine, a rotary boring spindle, a boring tool projecting laterally at one end of said spindle, a work support, means for procuring relative reciprocatory movement between said support and said spindle parallel to the axis of said spindle, an electric motor connected to drive said spindle, means including a rotary commutator switch with an insulating segment for

stopping said motor to stop the rotation of said spindle with said tool projecting in a predetermined direction as determined by the range of said segment, means for procuring relative transverse movement between said spindle and support in a direction such that the spindle axis is displaced from the axis of the bore of the workpiece in a direction opposite the projection of the tool, and means controlling the two last said means operable at the end of the boring operation and before the return stroke whereby the tool passes through the finished bore without contacting the same.

---

**2,391,488**
**STITCHING MACHINE**
**William R. Spiller and Robert J. Niederhauser, Dayton, Ohio, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware**
**Application April 21, 1943, Serial No. 483,908**
**15 Claims. (Cl. 1—15)**



1. In a stitching machine of the character described the combination of a base, a stitcher head supported from said base, a post cooperating with said stitcher head to receive and support the work beneath said head during the application of the stitch thereto, a clincher plunger operably mounted in said post for clinching movement relative thereto, and means for pivotally supporting said post and said clincher plunger for swinging movement from a forward inoperative position to a rearward operative position directly beneath said head, the pivot axis of said supporting means being displaced with respect to the center line of said post and said clincher plunger providing a reaction force during the application of the stitch tending to retain the post in its said operative position.

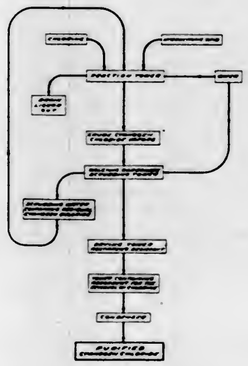
---

**2,391,489**
**METHOD OF MOLDING**
**Alfred J. Stamm and Harold Dale Turner, Madison, Wis., assignors to the United States of America, as represented by the Secretary of Agriculture**
**No Drawing. Application May 10, 1943, Serial No. 486,462**
**7 Claims. (Cl. 144—309)**
**(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)**

1. A method of molding laminated articles, comprising: impregnating sheets of porous compressible material with a thermo-changing material; precompressing the sheets at a temperature at which the thermo-changing material is plastic to reduce substantially the volume of the sheets; cooling the sheets while in the reduced volume to such a temperature as to temporarily solidify the thermo-changing material and hold the sheets in the state of precompression; laying up plies of the precompressed cooled sheets to occupy substantially the volume and configuration of the desired molded article without applying external pressure thereto; heating the plies while so laid up to the temperature at which the thermo-changing material is plastic and over a sufficient interval of time to cause the thermo-changing material to lose its temporary solidification, thus causing the plies to tend to expand, while confining the plies to the desired volume and configuration thus placing them under compression; and finally thermally treating the confined plies to set the article in its desired volume and configuration.

---

**2,391,490**
**PRODUCTION OF REFINED CYANOGEN CHLORIDE**
**Jack T. Thurston, Riverside, and Russell L. Sperry, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application September 16, 1943, Serial No. 502,566**
**3 Claims. (Cl. 23—14)**



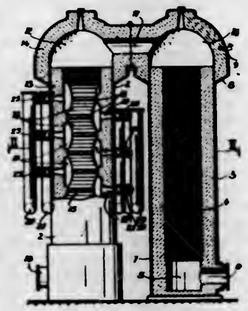
1. A method of refining crude cyanogen chloride containing hydrogen chloride and chlorine which includes the steps of passing vapors of the crude cyanogen chloride through a bed of calcium carbonate over which water is flowing, then over a non-alkaline desiccant and thereafter passing the dry vapors over activated charcoal, cooling the charcoal to dissipate the exothermic heat of adsorption, condensing and recovering the thus purified cyanogen chloride.

---

**2,391,491**
**REGENERATIVE GAS HEATER**
**Friedrich Totzek, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware**
**Application May 14, 1940, Serial No. 335,043**
**In Germany May 19, 1939**
**3 Claims. (Cl. 263—19)**

1. A gas heater regenerator comprising: heat accumulating checkerwork arranged to be heated-up by the flow of combustion gases over the checkerwork from one end of the same to the other; the combustion burner-means connected therewith for flow of combustion products thereto at said one end; and in which the checkerwork of the gas heater at said one end is subdivided into several superimposed separate horizontal gas flow sections of checkerwork, and are interconnected with each other for gas flow in series through the superimposed sections in a zigzag way; and in which the combustion burner-means

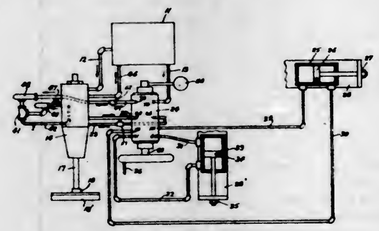




comprises a short flamed gas and air fed burner at the connecting point between each pair of such superimposed sections for the direct heating thereof; and the subdivided superimposed sections of the checkerwork are connected with the remaining part of the checkerwork so that the waste gas products of such combustion for heating the sections, after traversing the subdivided sections, flow thence on through the remaining part of the checkerwork to the other end of the same.

---

**2,391,492**
**HYDRAULIC DUPLICATING MECHANISM AND EXHAUST GOVERNOR**
**Manuel Turchan, Dearborn, and Curtis Walker, Detroit, Mich.**
**Application November 5, 1942, Serial No. 464,690**
**12 Claims. (Cl. 60—97)**



12. In combination, a fluid pressure source, a tracer actuated fluid control valve, a directional control valve adapted to alternately direct tracer controlled fluid from said pressure source to either end of either one of two transverse feed cylinders, and constant volume fluid from said pressure source to either end of the other feed cylinder, and means for conducting exhaust fluid from said feed cylinders back to said fluid pressure source.

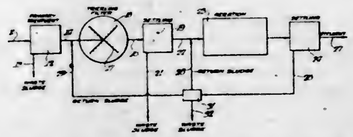
---

**2,391,493**
**QUICK SETTING CEMENT**
**Eugene Wainer and Allen Salomon, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application April 21, 1942, Serial No. 439,928**
**13 Claims. (Cl. 106—104)**

1. A stable dry composition capable, upon the addition of water, of setting to a synthetic stone, comprising 40 to 80 per cent of a solid water insoluble inert material, 10 to 35 per cent of an alkalinous acid phosphate, 10 to 35 per cent of dead burned magnesite, and 0.5 to 5 per cent of a water soluble alkalinous fluoride.

---

**2,391,494**
**METHOD AND APPARATUS FOR TREATING SEWAGE**
**James D. Walker, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a corporation of Illinois**
**Application December 13, 1939, Serial No. 309,049**
**7 Claims. (Cl. 210—5)**



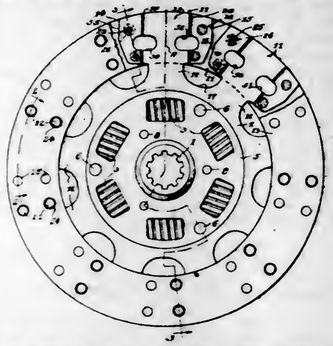
1. The process of treating sewage which includes the steps of flowing the sewage in extensive contact with the air and through a trickling filter, settling the sewage from the trickling filter, removing the settled sludge from the liquid of the sewage, passing this liquid into an activated sludge aeration tank and aerating it by an activated sludge sewage treatment, again removing sludge from the sewage, and returning some of this sludge to the sewage to be treated by the activated sludge treatment.

---

**2,391,495**
**FRICTION MEMBER FOR CLUTCHES AND BRAKES**
**Ernest E. Wemp, Detroit, Mich.**
**Original application February 18, 1938, Serial No. 191,145. Divided and this application January 15, 1942, Serial No. 426,802. In Canada June 20, 1938**
**3 Claims. (Cl. 192—107)**

1. A clutch member comprising, a disc having spokes in its outer zone, said spokes having enlarged head portions formed by at least one lateral extension connected to the body of the spokes substantially on bend lines extending in a radial direction, a facing on each side of the disc, means connecting the facings to the outer zone so that the facings are yieldably spaced, the bend lines of the spokes adapted to be substantially flattened incident to clutch packing pressure, and each spoke having an aperture therein, located within the confines of the spoke and formed partially in the body and partially in the lateral extension so as to break the bend line and form a bent beam positioned radially outwardly of the aperture and a bent beam positioned radially inwardly of the aperture, the beam positioned radially outwardly being of greater length than the one positioned radially inwardly, and

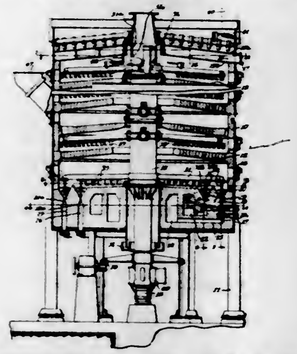
the aperture being located so that the radially outward beam has a width greater than the



radially inward beam, whereby the resistance to bending of the beams is substantially the same.

---

**2,391,496**
**METALLURGICAL APPARATUS**
**Carl J. Westling, West Orange, N. J., assignor to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware**
**Application June 4, 1942, Serial No. 445,721**
**8 Claims. (Cl. 259—4)**

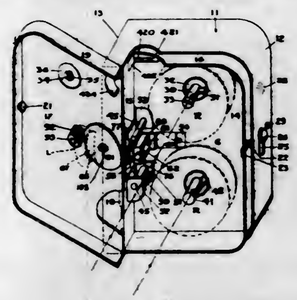


1. An apparatus for treating a finely divided solid material with a gas comprising a furnace shaft, a substantially circular hearth therein having at least one curved trough therein extending around the hearth for receiving said material and having a perforate bottom, and means for supplying gas under pressure through the perforate bottom of said trough to render said material fluent so that it flows along said trough and to bring said gas into intimate contact with said material.

---

**2,391,497**
**FILM HANDLING APPARATUS AND MAGAZINE FOR USE THEREWITH**
**Oliver Whitwell Wilson, New York, N. Y., and Warren Dunham Foster, Eustis Fla.; said Wilson assignor to said Foster**
**Application September 1, 1943, Serial No. 500,862**
**72 Claims. (Cl. 88—17)**

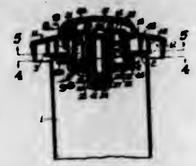
1. In combination, a film handling apparatus and a magazine for use therewith; said magazine having a delivery support and a take-up support, a gate receiving recess therebetween, a film extending in an operational path between said supports and across said recess, a light-trap surrounding the length of film extending across the recess of said magazine and movable from a first or protective position there-across wherein it protects the film from light and a second or running position out of said recess and within the magazine wherein it frees the film, said first position being between said operational path across said recess and the body portion of the magazine and said second position being within the magazine and coextensive with a portion of the film path, a meter for registering the amount of film which is exposed therein, and a device for preventing the operation of said meter; said apparatus including a gate for defining said operational path, said gate comprising a fixed section and two sections movable relatively thereto, a first of said movable gate sections having a film engaging surface parallel to that of said fixed gate section and being adapted to engage a side of the film and a second of said movable sections having a film engaging surface normal to said film engaging surfaces and being adapted to engage an edge of the film, means for moving said first movable section from a threading position relatively distant from said fixed section and



said path to a running position relatively adjacent said fixed section wherein it engages the film supported by said magazine and extending across said recess and defines a side of said path opposite that defined by said fixed section, means for moving said light trap from its said first to its said second position, means for moving said second movable gate section into operating position wherein it engages both of said sections and an edge of the film in order to guide it and supply an edge of said path, a pull-down claw engageable with the film for intermittently moving it through the gate, a positioning claw engageable with the film for holding it motionless within the gate, means for disabling said means for preventing the operation of said meter thereby rendering said meter operable, mechanism for back-winding the film through the gate in a direction contrary to that through which it is fed by said claw, means for clearing the gate for the free passage of the film by removal therefrom of a toothed member prior to the back-winding of the film, a film engaging member for moving the film to bring it into alignment with the aperture of said gate, means for operating said aligning member, and sequential control mechanism operatively interconnecting all of said means and including instrumentalities for successively actuating each thereof.



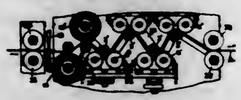
**2,391,498**
**LOCKED FILLING CAP FOR FUEL TANKS**
**Solomon Wise, Shaker Heights, Ohio**
**Application May 9, 1941, Serial No. 392,673**
**5 Claims. (Cl. 70—172)**



1. In a cap device for closing and sealing the end of a fuel tank filling stem, a body for covering and overlapping the end of the stem, a depending tubular housing on the body, downwardly open, and upwardly closed except for a key hole through the body, a cover plate on the downwardly open end of the tubular housing substantially closing the same and attached thereto, a bore in the housing, a lock barrel oscillatable in the housing bore by a key inserted through the key hole, a tube on the barrel eccentric thereof, a bore in the cover plate aligned with the tube in one position thereof, lock mechanism in the tube and cover plate bore to lock them in said position, an opening provided between the cover plate and the housing end, a lock bolt projecting outwardly through the opening and inwardly thereof having a perforation encircling the said tube, the lock mechanism being operable by the key to permit eccentric rotation of the tube by the key to withdraw the lock bolt.

---

**2,391,499**
**PROCESS OF AND APPARATUS FOR OPERATING ON SHEET METAL**
**Carl M. Yoder, Lakewood, Ohio; Bertha L. Yoder executrix of said Carl M. Yoder, deceased**
**Application June 25, 1941, Serial No. 399,644**
**13 Claims. (Cl. 29—156)**

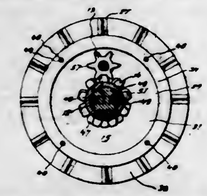


1. The herein disclosed process which consists in feeding flat sheet metal, continuously passing it around the remote sides of adjacent rolls and by separate means simultaneously applying pressure at spaced points and inwardly radially of the rolls to contiguous portions of the sheet metal while such portions are in engagement with each roll, thereby wrapping such portions around the rolls and flexing the sheet metal in reverse directions on transverse lines to loosen the scale on the surfaces of the sheet metal and remove strains in its molecular structure, continuously passing the sheet metal through and between a set of staggered rolls to level the sheet metal, continuously feeding the sheet metal relative to and in engagement with brushing elements to remove the loosened scale, and finally subjecting the sheet metal to sets of shaping elements to form the flat sheet metal into a predetermined cross sectional shape.

8. In apparatus of the class described, the combination with supporting means and means for continuously supplying flat sheet metal, of means for simultaneously loosening scale on the surfaces of the sheet metal and removing strains in its molecular structure, said means comprising a plurality of rolls, to which the sheet metal is supplied, disposed in vertical planes spaced longitudinally of said supporting means, the sheet metal being arranged to pass around a portion of each said roll at one side of its axis and that portion of the succeeding roll at the remote side of its axis, and spaced pressure devices engaging the sheet metal during its engagement with each said roll to maintain contiguous portions thereof in wrapped relation therewith throughout an arcuate portion of the roll.

---

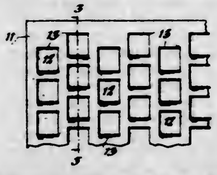
**2,391,500**
**VENETIAN BLIND TILTER**
**Jules Nisenson, New York, N. Y., assignor to Pub-lix Metal Products Inc., New York, N. Y., a corporation of New York**
**Application February 5, 1944, Serial No. 521,200**
**20 Claims. (Cl. 160—176)**



1. In a Venetian blind tilter: a first gear; a second gear movable with respect to said first gear; said second gear having a different number of teeth from said first gear; and a pinion orbitally rotatable about and meshing with said first and second gears.

---

**2,391,501**
**SCREEN PLATE**
**Fred J. O'Brien, Mount Vernon, N. Y.**
**Application June 22, 1944, Serial No. 541,556**
**1 Claim. (Cl. 209—397)**



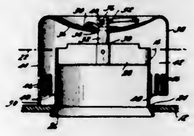
A screen plate of the character described, comprising a sheet metal body having rows of holes formed therein and with the holes in one row disposed in staggered relation to the holes in an adjoining row, each hole being substantially rectangular in shape with those edges thereof in staggered relation being provided with flanges rising therefrom above the surface of the body and extending lengthwise thereof in the edgewise path of flow of the material.

---

**2,391,502**
**BUBBLE CAP**
**George A. O'Brien, Kansas City, Kans.**
**Application July 3, 1944, Serial No. 543,368**
**1 Claim. (Cl. 261—114)**

A bubble cap assembly adapted to cover an opening in a bubble tray comprising a chimney fitted in the opening of the tray, said chimney having a sealing flange to engage the underside

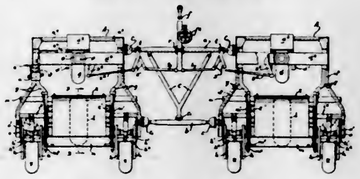
of the tray, a stem having a side notch and extending axially and upwardly from said chimney, a cap carried by said tray in spaced relation about said chimney with said stem extending there-



through, and a spring member disposed under tension with its one end engaging said notched stem and its other end resting on said cap whereby said chimney and cap are secured in operative relation on said tray.

---

2,391,503
**APPARATUS FOR FACILITATING THE TRANSPORT OF AIRCRAFT**
**Ernest Page, Upminster, England, assignor to Ford Motor Company, Dearborn, Mich.**
**Application March 10, 1943, Serial No. 478,626**
**In Great Britain May 5, 1942**
**6 Claims. (Cl. 280—33.5)**



1. In an apparatus for the ground transport of aircraft, a pair of trucks, each comprising, a frame and a plurality of supporting wheels at least one of which is steerable, means on said frame to receive a landing wheel of an aircraft to be transported thereon, said trucks arranged side by side and spaced a distance equivalent to the gage of the landing wheels of said aircraft; articulating means joining said trucks, comprising, a pair of transverse cross members extending between said trucks and universally joined at each of their ends to said trucks and a longitudinal member fixedly secured to one said transverse cross member and having a universal joint connection with the other said transverse cross member, a drawbar pivoted on said one transverse cross member, and a steering linkage operated by said drawbar and connected to said steerable wheels.

---

2,391,504
**ANTISEIZING PASTE FOR SEALING THREADED JOINTS AND LIKE PARTS**
**Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio**
**No Drawing. Application October 30, 1943, Serial No. 508,398**
**3 Claims. (Cl. 252—37)**

3. An anti-seize paste composition for sealing metal joints exposed to the action of gasoline, comprising 4½ to 6 parts of highly polymerized blown castor oil, 1 to 2 parts of a soap selected from the group consisting of zinc and calcium soaps of saturated aliphatic acids having at least 17 carbon atoms exclusive of the carboxyl group, and 0.3 to 1.5 parts of a neutral light mineral oil.

2,391,505
**THREE-WAY VALVE**
**Arthur L. Parker and Emmett C. Hartley, Cleveland, Ohio, assignors to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio**
**Application May 29, 1944, Serial No. 537,936**
**3 Claims. (Cl. 251—95)**



2. The combination of a valve casing having a cylindrical valve chamber, a valve rotor disposed in said chamber comprising segments of a cylinder, the outer faces of which conform to the cylindrical surface of the valve chamber, said segments being spaced and forming therebetween a longitudinal port, springs disposed between said segments for forcing said segments into contact with the wall of the valve chamber, said valve casing having a port connected with the port between the segments and also having ports on opposite sides of the valve chamber connected by passages to the valve chamber at diametrically opposite points, said segments of the rotor having a transverse port disposed at right angles to the inner faces of the segments and at one side of the center of the valve chamber whereby said rotor may be selectively positioned so as to connect one or the other of the diametrically opposed passages to the port between the segments.

---

2,391,506
**RESISTANCE DEVICE**
**Gerald L. Pearson, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application March 19, 1942, Serial No. 435,360**
**9 Claims. (Cl. 201—63)**

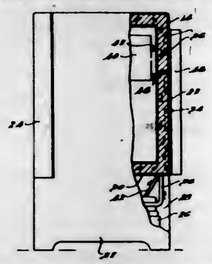


1. A resistor device comprising three electrically conducting bodies, means for pressing two of said bodies into contact with opposite sides of the third, said two bodies each including at the point of contact a relatively thin, hard layer of high resistance-temperature coefficient resistor material, said three bodies being relatively shaped and oriented to provide substantially point contact therebetween, the pressure between said bodies being sufficient to maintain them in mechanically stable contact with minimum deformation thereof at the points of contact, and means for connecting each body to an electric circuit.

---

2,391,507
**REFRIGERATING APPARATUS**
**Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland**
**Application August 24, 1944, Serial No. 550,919**
**2 Claims. (Cl. 62—116)**

2. Refrigerating apparatus comprising an outer metallic casing and an inner liner arranged in spaced relationship, said liner forming walls of a food storage compartment, said cabinet also having a mechanism compartment, a cooling element for refrigerating said food compartment, a motor compressor unit in said mechanism compartment, a coiled condenser tube united to the inside surface of the rear wall of said casing and a corrugated metallic strip secured to the exterior surface of said rear wall to form a plurality of flues which also serve as fins to dissipate heat from



said condenser tube, said motor compressor unit being connected to said cooling element and condenser tube and being positioned in said mechanism compartment so that heat generated thereby may initiate a flow of convection air currents through said flues to absorb heat radiated from said condenser tube.

---

2,391,508
**MANUFACTURE OF BUTADIENE**
**Herman Pines and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application March 31, 1943, Serial No. 481,264**
**5 Claims. (Cl. 260—681)**

2. A process for producing butadiene which comprises subjecting 2,3-butylene glycol diacetate at a temperature of from about 200° C. to about 550° C. to the action of a copper phosphate catalyst.

---

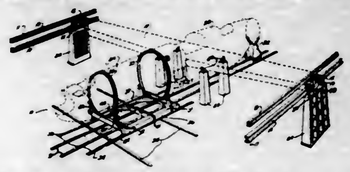
2,391,509
**MANUFACTURE OF BUTADIENE**
**Herman Pines and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application March 31, 1943, Serial No. 481,265**
**1 Claim. (Cl. 260—681)**

A process for producing butadiene which comprises subjecting 2,3-butylene glycol diacetate at a temperature of from about 200° C. to about 550° C. to the action of a magnesium silicate catalyst.

---

2,391,510
**MATING FIXTURE**
**William F. Pioch and George E. Scarlett, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application May 13, 1944, Serial No. 535,427**
**10 Claims. (Cl. 214—1)**

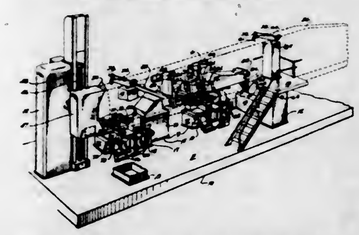
1. In an aircraft assembly device, a longitudinal conveyor traversing a plurality of successive assembly stations, said conveyor comprising a track and spaced moveable supporting means mounted thereon adapted to engage respectively an aircraft wing section adjacent its opposite outer ends, a plurality of fixed supports at each said station spaced inwardly of said supporting means, and means selectively to withdraw said moveable supporting means from said conveyor track and engage said wing section carried thereon with said fixed supporting means and to dis-



engage said wing section from said fixed supporting means and restore it to said conveyor track.

---

2,391,511
**MACHINE TOOL FOR MANUFACTURING AIRCRAFT WINGS**
**William F. Pioch and John W. Mistele, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application May 13, 1944, Serial No. 535,428**
**8 Claims. (Cl. 29—33)**



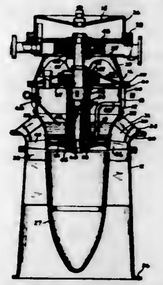
1. In a machine tool particularly adapted to the finishing of a plurality of separated surfaces on an aircraft wing, comprising, a base, end towers on said base, a carriage on each tower adapted to engage one end of an aircraft wing to be supported between said towers, a pair of intermediate horizontal means on said base spaced on either side of the center of said base and adapted to secure said wing with the chord thereof substantially vertical, means at said horizontal supporting means to impress a force on said wing substantially normal to said chord, a plurality of metal cutting tools mounted on said base intermediate said end towers and said horizontal supporting means, said metal cutting tools including certain cutters mounted for common horizontal movement along the extent of said wing and for independent horizontal transverse movement or independent vertical movement into cutting engagement with said wing, and other cutters mounted for horizontal movement projecting them into the interior of said wing and for vertical movement to engage such other cutters in cutting contact with an internal surface of said wing.

---

2,391,512
**BLOWER APPARATUS**
**Alexander I. Ponomareff, Upper Darby, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 21, 1943, Serial No. 507,085**
**5 Claims. (Cl. 230—132)**

1. In a vertical propeller blower, a tubular casing; a hollow body member carried by the casing and cooperating with the latter to provide the

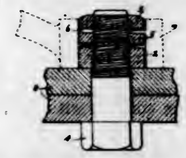
suction portion of the blower passage; said body member comprising upper and lower walls joined by a circumferential wall; a vertical drive shaft traversing the interior of the body member and having upper and lower portions extending beyond the upper and lower walls; a propeller carried by the lower portion of the drive shaft and arranged adjacent to the lower wall; radial and thrust bearings for the drive shaft and supported radially and axially by the upper and lower walls; said upper and lower radial and thrust bearings each including radial and thrust bearing surfaces, said drive shaft being formed with radial and thrust bearing surfaces cooperating with the bearing surfaces of the bearings, and the thrust



bearing surfaces being at the upper end of the lower bearing and at the lower end of the upper bearing; means for lubricating the bearings comprising a seal opposing the escape of oil from the interior of the body member so that the lower portion of the latter may serve as an oil reservoir and means providing for the circulation of oil from the reservoir and through the lower and upper bearings in series and for the return to the reservoir of oil escaping from the upper bearing; said means providing for the circulation of oil including a sleeve member connecting the bearings and encompassing the thrust surfaces and the drive shaft to provide an annular passage for supplying oil discharging from the lower thrust bearing to the upper thrust bearing.

---

**2,391,513**
**LOCK NUT**
**Herman P. Randall, Pasadena, Calif.**
**Application August 7, 1943, Serial No. 497,816**
**5 Claims. (Cl. 151—21)**



1. A nut including a threaded nut member to be screwed onto the threads of a bolt, and a servo-acting part anchored at one end to said nut member and extending around the bolt; and means for anchoring the servo-acting part to the bolt; said servo-acting part operating to wrap itself against the bolt threads when rotation of the said nut member is initiated in a direction to unscrew the nut from the bolt, and thereby resist further rotation of the said nut member.

**2,391,514**
**WING STRUCTURE FOR AIRPLANES**
**Wilfred Thomas Reid, Mount Royal, Quebec, Canada, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada, a corporation of Canada**
**Application October 4, 1943, Serial No. 504,936**
**4 Claims. (Cl. 244—123)**



1. A wing structure for airplanes including upper and lower wing skins and interior structural supporting means therefor, said supporting means comprising a main elongated channel member extending spanwise of the wing, said member being of a width in cross-section which is a substantial proportion of the corresponding cross-sectional width of the wing and at least one smaller elongated channel member extending spanwise of the wing, such channel members being substantially inverted-U-shaped in cross-section with the base of the U forming a continuous curve merging into depending leg portions, and such channel members being connected through the leg portions, the latter being connected to the lower wing skin and the curved portion of at least the main channel member being connected to the upper wing skin.

---

**2,391,515**
**INSULATION**
**Alvin B. Richards, Dearborn, and Harold S. Atherton, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application March 29, 1943, Serial No. 480,995**
**3 Claims. (Cl. 154—28)**

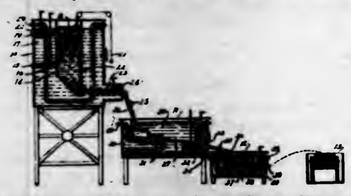


3. A laminated soundproofing assembly to be used in conjunction with a thin vibratile structural plate, comprising, a batt of soft loose fibrous material secured between textile webs having one face adhesively secured to the inner surface of said plate, said adhesive so securing said batt and said plate together being distributed therebetween in thin vermicular filaments randomly disposed to form irregularly reticulated adhesive areas.

---

**2,391,516**
**PURIFICATION OF LOW MELTING POINT ALLOYS**
**Alvin B. Richards and James T. O'Reilly, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application June 16, 1943, Serial No. 490,978**
**2 Claims. (Cl. 266—34)**

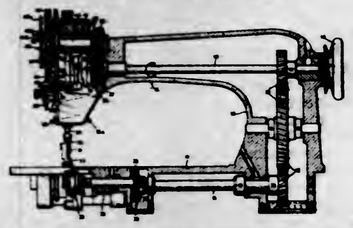
1. In an apparatus for the purification of used Woods' metal and similar low melting point alloys, a settling tank to hold impure molten alloy, means to maintain the temperature of said tank above the melting point of said alloy, means on said tank to remove the lighter separable portion of the charge therefrom, means to discharge the heavier remainder of said alloy from said tank in the form of minute droplets and to direct said droplets into a second tank containing an acidic solution, means to maintain the tempera-



ture of said second tank above the melting point of said alloy, means on said second tank to discharge the accumulated alloy therefrom in the form of minute droplets to a third tank containing a neutralizing bath, means to maintain the temperature of said neutralizing bath above the melting point of said metal, and means to withdraw the metal from said neutralizing bath.

---

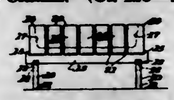
**2,391,517**
**THREAD TAKE-UP FOR SEWING MACHINES**
**Charles F. Rabel, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application April 9, 1942, Serial No. 438,222**
**19 Claims. (Cl. 112—248)**



1. In a sewing machine a reciprocating needle bar, a needle carried thereby, complementary stitch forming means cooperating with said needle and acting upon a thread carried thereby, and take-up means cooperating with said thread in timed relation with said needle bar and complementary stitch forming means, said take-up means comprising a plurality of coaxial, rotary members, each mounted for simple rotation, and means for operating said members at different angular speeds.

---

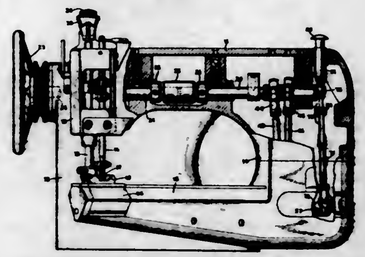
**2,391,518**
**FIRE GRATE**
**William L. Sharpe, Steubenville, Ohio, assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio, a corporation of Ohio**
**Application November 17, 1942, Serial No. 465,835**
**6 Claims. (Cl. 126—165)**



1. A fire grate of assembled ceramic parts consisting of a set of support members arranged in parallel spaced relation to one another, a set of grate bar members disposed transversely of and assembled on the support members, means on the grate bar members for maintaining them in spaced relation relative to each other, projections adjacent the ends of the support members for holding the grate bar members in assembled relation therebetween and to prevent their outward lateral movement, and spaced channels on each grate bar member which interlock with the support members to prevent the grate bar members from longitudinal movement.

---

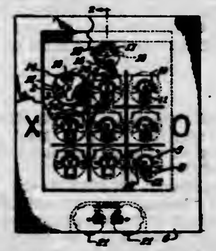
**2,391,519**
**SEWING MACHINE**
**Clarence C. Smith, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application January 3, 1942, Serial No. 425,497**
**14 Claims. (Cl. 112—200)**



1. In a sewing machine, stitch forming devices including a looper, a long oscillatable shaft having said looper rigidly secured thereto adjacent one end thereof and adapted to impart to said looper its loop-taking and loop-shedding movements, a drive shaft, modifiable connections therefrom to a point on said oscillatable shaft remote from said looper for oscillating the same and said looper through a pre-determined arc upon each revolution of said drive shaft, and means mannally operable at will for modifying said connections to cause said looper to be carried beyond said pre-determined arc into readily accessible position.

---

**2,391,520**
**GAME INDICATOR OR SCOREBOARD OR THE LIKE**
**William Irven Smith, Lockland, Ohio**
**Application June 22, 1942, Serial No. 447,947**
**5 Claims. (Cl. 273—130)**

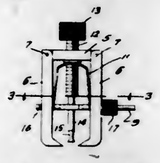


3. A score board or the like comprising a relatively flat base, revolvable disks carrying indicia

mounted thereon and having dogs on the other side thereof, a cover having windows positioned over a portion of said disks, means on said disks projecting through said cover for revolving the same, and a single means actuatable to revolve all disks to a predetermined position comprising a slidable flat sheet having cam holes cooperating with the dogs on the disks.

---

2,391,521
**CLOCK HAND REMOVER**
**Elza A. Slagle, Cleveland, Ohio**
Application February 20, 1943, Serial No. 476,577
1 Claim. (Cl. 81—6)



An instrument of the character described comprising a nut structure, a pair of pivotal jaws carried by the nut structure, means for expanding and contracting the jaws, and a push member feedable through the nut, said means for expanding and contracting the jaws comprising a frame member for receiving the pushing member, said frame member being provided with shanks disposed through the jaws, one of said shanks being threaded, a nut on the threaded shank at the outside of the corresponding jaw adapted to be fed against the corresponding jaw to contract the jaws, and a U-shaped spring for expanding the jaws when the nut is unscrewed on the threaded shank, said spring being interposed between said jaws and having a bight portion through which said pusher slidably extends and free ends straddling said shanks.

---

2,391,522
**METHOD OF DETERMINING DEFECTS IN ALUMINUM AND ALUMINUM ALLOY ARTICLES**
**Charles J. Slunder, Columbus, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
No Drawing. Application December 19, 1942, Serial No. 469,575
3 Claims. (Cl. 23—230)

1. The method of testing the surface of aluminum and aluminum alloy articles to discover cracks and similar physical defects therein which comprises forming in said cracks and defects an aluminum compound which is effective to fix an organic dye, and thereafter treating the surface with a solution of organic dye susceptible of being fixed by said aluminum compound.

---

2,391,523
**METHOD FOR CASTING ROTORS**
**Charles E. Sorensen, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
Application March 31, 1941, Serial No. 386,033
3 Claims. (Cl. 22—200.5)

1. The method of forming impellers, fans, and the like which comprises, the steps of arranging sector mold parts upon a horizontal rotatable support having a centrally disposed reservoir, a portion of each of said mold sector conforming to the interstices between the vanes of said impeller, the remainder of each said mold sector cooperating with adjacent mold sectors to form a peripheral wall, preheating the mold, pouring an



excess of molten metal into said reservoir in the central part of the mold, and then rotating the mold at a speed sufficient to impel the metal substantially instantly and continuously to the remote parts of the mold.

---

2,391,524
**VEHICLE TRACK CONSTRUCTION**
**Charles E. Sorensen, Detroit, and Laurence S. Sheldrick, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
Application January 28, 1943, Serial No. 473,770
3 Claims. (Cl. 305—10)



1. A track construction comprising, a plurality of track links having male and female hinge members formed on opposite ends thereof, a male hinge member of one link engaging female hinge members on an adjacent link, said interengaging link members having aligned openings therein, separate sleeves resiliently mounted in each of said hinge members upon rubber bushings, said bushing being installed in position under relatively high pressure whereby both rotary and axial movement of the sleeves relative to said hinge members are resisted by flexure of said rubber bushings, the adjacent ends of said sleeves having serrations formed thereon, and means for drawing said sleeves axially against the resistance of said rubber bushings into position where said serrations engage each other, said last-named means being loosely received within said sleeves and means to prohibit relative rotation of said sleeves therewith.

---

2,391,525
**COUPLING MEANS**
**Walter J. Spengler, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
Application June 15, 1942, Serial No. 447,104
12 Claims. (Cl. 64—25)



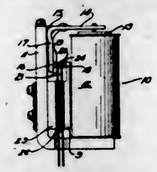
3. Apparatus of the class described comprising a rotatable driving member, a rotatable driven member, and means for drivably connecting said members whereby the latter may



have limited relative angular movement, said connecting means comprising centrifugally responsive means for effecting relative angular movement of said members in one direction in response to centrifugal forces and other centrifugally responsive means for effecting relative angular movement of said members in the other direction in response to centrifugal forces, the major portions of both of said centrifugally responsive means being mounted to rotate in approximately the same path.

---

2,391,526
**VOLTAGE REGULATOR**
**August Toelle and Corado R. Salet, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
Application January 14, 1944, Serial No. 518,224
2 Claims. (Cl. 201—48)



1. In a voltage regulator, an L-shaped base, an electromagnet fixedly mounted on one leg of said base and spaced from the other leg thereof, an L-shaped movable armature pivotally supported at the end of said other leg of said base, one leg of said armature overlying and actuated by said electromagnet, a fixed contact supported on said base between said other leg thereof and said electromagnet, a cooperating contact on the other leg of said armature positioned between said other leg of said base and said fixed contact, a plurality of auxiliary spring leaf supported contacts between said fixed contact and said cooperating contact and successively aligned therewith to form a series of interengaging contacts adapted to permit electrical connection therethrough when said armature is remote from said electromagnet, substantially equal increments of resistance connected in series between each of said contacts, and means effective on the moving of said cooperating contact as said armature approaches said electromagnet to break initially the connection between said fixed contact and the adjacent auxiliary contact before breaking the connection between said cooperating contact and its adjacent auxiliary contact.

---

2,391,527
**MOLDING MACHINE**
**Parker C. Tracy, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio**
Application February 11, 1943, Serial No. 475,470
14 Claims. (Cl. 18—16)

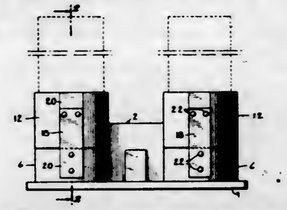
14. An injection molding machine comprising a stationary die plate, a carriage movable toward and from the die plate, molds each comprising a hollow mold section mounted in said die plate and formed with a mold cavity extending inwardly from the face of the die plate and a molding plug mounted in the carriage and formed with a spiral molding surface, said plugs having their axes extending in the direction of movement of the carriage, means for moving the molding plugs lengthwise relative to the carriage into projected positions in which said spiral surfaces are projected beyond the carriage and into the mold cavities, means for injecting molding material into the molds, means providing a sprue channel connecting the mold cavities and thereby causing the formation of a sprue by which the molded articles are united, means for moving the carriage away from the stationary die plate while the plugs are connected to the molded articles and



thereby causing said articles to be drawn by said plugs out of the hollow mold sections, a train of gearing interconnecting the molding plugs and operative to rotate them simultaneously, and automatic means for driving said gearing after the molded articles have been withdrawn from the hollow molds and thereby separating the molded articles from said plugs.

---

2,391,528
**TUBE HOLDER**
**George Dewey Walker, Riveredge, and Clarence Emerson Oulsnam and Frydryak Krysa, Jersey City, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware**
Application January 20, 1944, Serial No. 518,970
9 Claims. (Cl. 248—108)



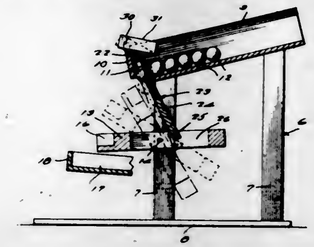
1. A tube holder comprising a base and a receptacle thereon having a bore surrounded by a wall, said wall comprising sections movable relative to each other to vary the cross-section of the bore, at least one of said sections being hinged to said base, and means yieldingly urging said sections to closed position.

---

2,391,529
**TOY**
**Russell T. Walker, Bremerton, Wash.**
Application August 21, 1945, Serial No. 611,778
4 Claims. (Cl. 46—43)

1. A toy of the class described, comprising an elevated container for a plurality of spherical elements, said container having a discharge opening through which the spherical elements are movable out of the container successively and by the influence of gravity, a receiver for the spherical

element located in a plane below said container, a transfer element pivotally mounted between said container and said receiver, said transfer element being self-balanced to assume a normal position with a pocket portion thereof located in position to receive a spherical element from said container and upon reception of the spherical element becomes overbalanced adjacent the pocket portion so as to move tiltably to bring the pocket portion in proximity to said receiver whereby the spherical element drops from said



pocket portion of the transfer element into said receiver, and a trigger-like controlling element connected operatively to said transfer element and operating effectively in the discharge opening of the container so as to receive the spherical elements successively and deliver them one at a time and intermittently to the pocket portion of the transfer element as the latter returns successively and automatically to its normal position after a previous starting movement of the transfer element to a position approximately that of its final delivery position relative to said receiver.

---

**2,391,530**
**METALLATION OF BETA KETO ESTERS**
**Vernon H. Wallingford, Ferguson, and August H. Homeyer, St. Louis, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri**
**No Drawing. Application March 13, 1941, Serial No. 383,164**
**8 Claims. (Cl. 260—483)**

1. The method of metallating a $\beta$-keto ester of the following structure:

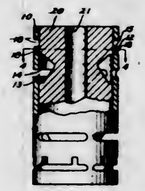
$$R.CO.CH_2.CO_2Y$$

where R is a hydrocarbon radical selected from the group consisting of aromatic and saturated aliphatic hydrocarbon radicals, and Y is an alkyl radical, which comprises reacting the ester with an anhydrous alcoholate of a metal selected from the group consisting of sodium, potassium and magnesium, in a reaction medium consisting essentially of a dialkyl carbonate, and removing alcohol.

---

**2,391,531**
**BALANCED VALVE**
**Henry E. Warren, Ashland, Mass.**
**Original application April 15, 1943, Serial No. 483,162. Divided and this application September 16, 1943, Serial No. 502,601**
**4 Claims. (Cl. 251—75)**

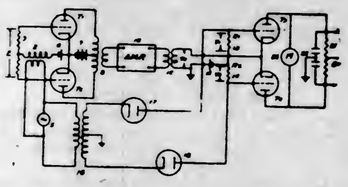
1. A balanced valve wherein the dynamic forces due to the flow of liquid in the valve during the operation thereof are balanced or neutralised, said valve comprising a sleeve and a valve element disposed for axial movement therein and snugly fitting the inner surface thereo, the inner surface of said sleeve having therein a circumferential groove shallow with respect to the width thereof and co-operating at times with a contiguous portion of the outer surface of said valve element to afford a narrow annular passageway between said valve element and the inner surface of the grooved portion of the sleeve, said grooved portion of the sleeve communicating at its outward edge with a plurality of openings passing through the wall of the sleeve, said passageway and openings constituting reaction ports constructed and arranged to produce an opening force upon the valve element, said sleeve being provided with a plurality of ports passing through



the wall thereof in spaced relation around the grooved portion thereof, the ports last mentioned constituting free ports constructed and arranged relative to said reaction ports to produce a closing force upon said valve element substantially equal to said opening force thereon, said free and reaction ports being arranged in pairs around the periphery of said sleeve, said sleeve inwardly of the grooved portion thereof being provided with a plurality of intake ports, one for each pair of said free and reaction ports, and said valve element being provided with a peripheral groove disposed to connect said intake ports with the respective pairs of free and reaction ports upon the outward movement of said element, substantially as and for the purpose described.

---

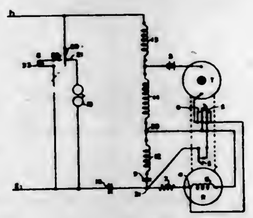
**2,391,532**
**DIRECT CURRENT AMPLIFIER**
**Raymond M. Wilmotte, Washington, D. C.**
**Application May 15, 1944, Serial No. 535,764**
**10 Claims. (Cl. 171—95)**



1. An amplifier comprising means for impressing a signal voltage thereon, an alternating current source of a given frequency, means for obtaining potentials of the given frequency having an amplitude which varies as the signal voltage, means for producing potential pulses corresponding to each half cycle of said given frequency, means responsive to the frequency potentials and pulses for producing an amplified signal voltage and means for impressing said potentials and pulses on the last named means.



**2,391,533**
**SUBSTATION CIRCUIT**
**Albert E. Woodruff, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application May 29, 1944, Serial No. 537,913**
**7 Claims. (Cl. 179—81)**

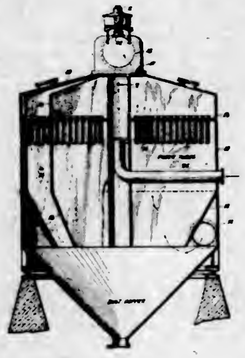


1. In a substation circuit, a line, a transformer having three windings, a handset including a transmitter and a receiver, a volume control receiver switch and a transmitter key mounted on the handle of said handset, a first receiving circuit including said volume control receiver switch, said transmitter key and said receiver connected in series with the first and second windings of said transformer and the conductors of said line, a second receiving circuit including said receiver and a resistance for reducing the energy in said receiver connected in series with said first and second windings of said transformer and the conductors of said line, a third winding of said transformer and a condenser in serial relation connected in shunt of said receiver to form an anti-side tone circuit, a transmitter circuit including said key and transmitter in serial relation connected in shunt of said second winding of said transformer, said key providing means for at will opening and closing said transmitter circuit, means including said volume control receiver switch operative in accordance with the desired loudness of the receiver output for at will connecting either said first receiving circuit or said second receiving circuit to said line, and means comprising a pair of springs controlled by said transmitter key included in said first receiving circuit.

---

**2,391,534**
**SEPARATOR**
**William D. Yerrick and Arthur Jensen, Wellsville, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.**
**Application June 2, 1944, Serial No. 538,402**
**3 Claims. (Cl. 183—57)**

1. Dust filtering apparatus comprising; a casing formed with an inlet for dust laden gas and a clean gas outlet spaced axially of the casing from said inlet; means forming a dust hopper at the bottom of said casing; partition means extending across said casing intermediate said gas inlet and outlet and formed with a plurality of apertures distributed substantially uniformly of said partition means; a plurality of porous-walled filter tubes seated in said openings for disentraining dust from gases flowing through the walls of said tubes; a cleaning nozzle having a fluid port facing and adapted to aline with corresponding ends of each of a group of adjacent tubes; means for supplying a cleaning fluid to said nozzle; means for moving said nozzle axially of said housing to and from a position with respect to the ends of said filter tubes wherein the cleaning fluid is confined to the tubes alined with the nozzle port; means for periodically moving said nozzle from said position and traversing it with respect to said partition means for alinement with another group of tubes; and valve means operative upon movement of said nozzle for discontinuing the supply of fluid thereto.



---

**2,391,535**
**VENTILATED CLOTHING**
**Joseph Zeiano, New York, N. Y.**
**Application October 27, 1944, Serial No. 560,531**
**3 Claims. (Cl. 2—93)**



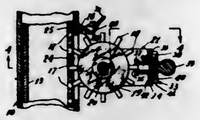
1. A ventilated garment, comprising a flexible sheet member fashioned to simulate a conventional garment and formed with strip-like openings at areas to be ventilated, and strips of lace secured across and closing said openings, and strips of flexible sheet material extending along said openings and secured in position along one of their sides and capable of being folded over said openings, and means for holding said strips of sheet material over or free of said openings.

---

**2,391,536**
**CLOTHES POST**
**Edward M. Anderson and Donald H. Morris, Monaca, Pa.**
**Application July 21, 1944, Serial No. 546,607**
**1 Claim. (Cl. 211—119.17)**

A clothes post of the character described, comprising a tubular main post and a tubular, telescoping extension member having a plurality of vertically aligned, equally spaced openings;

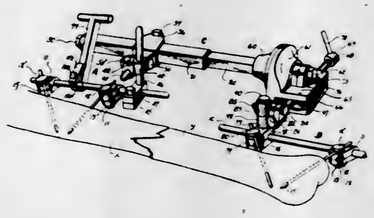
means for raising or lowering said extension member, said means comprising a pin-wheel having radially disposed, equally spaced pins adapted to register with the openings of said extension member; said pin-wheel rotatably supported in a U-shaped bracket secured to said main post; an operating handle secured to said pin-wheel for rotating same; a pawl pivotally mounted on the main post in engagement with one of the pins of said pin-wheel for retaining said extension member in raised position and means independent from said pawl for locking said pin-wheel from



rotation thereby preventing the extension member from being raised or lowered by said operating handle, said locking means adapted to embrace one of the pin-wheel pins by means of a hollow, spring tensioned member slidably and rotatably mounted in an aperture positioned in the bight of said U-shaped bracket; said hollow member terminating outwardly into an integral disc which merges into an operating knob; said disc provided with oppositely spaced openings arranged to receive a pair of outwardly extending pins, secured to the bight of said U-shaped bracket, when in locked position.

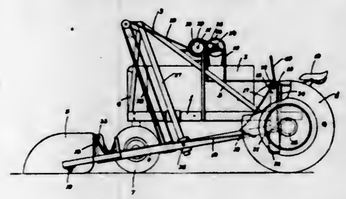
---

**2,391,537**
**AMBULATORY ROTATING REDUCTION AND FIXATION SPLINT**
**Roger Anderson, Seattle, Wash.**
**Application September 27, 1943, Serial No. 503,943**
**7 Claims. (Cl. 128—84)**



1. An ambulatory splint comprising a rigid extension bar of adjustable length, for bridging a bone fracture, closely along the outside of the limb, transfixion units equipped for rigid securement, respectively, to the fracture fragments, mountings on the bar for the functional fixation of the units thereto, and means for effecting and retaining an adjustment in length of the bar whereby to establish and retain a definite extension of the fracture; said mountings including joints adapted to be loosened for alining or for changing angulation of the fragments, and one of the mountings being laterally extendable or retractable and having a hinge joint therein with an axis parallel to the said rigid bar to provide for rotation of the corresponding fragment on the anatomical axis without change in the extension of the bone.

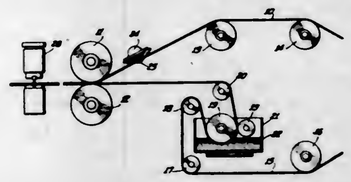
**2,391,538**
**FRONT END LOADER**
**Wayne Armstrong, Woodland, Calif.**
**Application March 17, 1945, Serial No. 583,218**
**5 Claims. (Cl. 214—139)**



1. A tractor mounted front end loader comprising push beams extending along opposite sides of the tractor, a scoop mounted on the push beams ahead of the tractor, links corresponding to and connected in articulated relation at one end to the rear ends of the push beams, the other ends of the links being pivotally connected with the tractor for vertical longitudinal swinging movement, power mechanism to raise the push beams from a lowered position with the scoop disposed for digging to an elevated position with the scoop disposed for dumping, the links being dependent relative to the tractor when the push beams are in lowered position, and means to automatically advance the push beams and scoop as the same move to elevated from lowered position; said advancing means comprising slides mounted on the push beams intermediate their ends and cooperating with adjacent upwardly and forwardly inclined guide rails mounted in connection with the tractor.

---

**2,391,539**
**METHOD OF MAKING PRESSURE SENSITIVE LABELS**
**Ray Stanton Avery, Los Angeles, Calif.**
**Application July 13, 1942, Serial No. 450,774**
**2 Claims. (Cl. 154—2)**



2. The method of manufacturing adhesive tapes, labels and the like comprising applying to a continuous backing a pressure sensitive adhesive, moving the backing and paper stock of substantially the same width as the backing width into laminating engagement with each other between laminating rolls so as to cause the adhesive to adhesively connect the backing and paper stock, and slitting the paper stock just prior to its passing through the laminating rolls into a plurality of strips which cooperate with each other to cover the adhesive on the backing and thereafter transversely dividing the strips without dividing the backing.

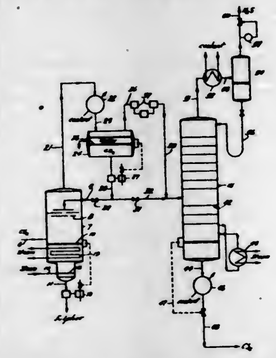


**2,391,540**
**PREVENTION AND TREATMENT OF CANINE ENCEPHALITIS**
**Charles Herman Beckman, St. Louis, Mo.**
**No Drawing. Application December 24, 1941, Serial No. 424,236**
**3 Claims. (Cl. 167—78)**

3. A vaccine containing attenuated virus of canine encephalitis and capable of immunizing dogs against the disease without substantially inducing the disease.

---

**2,391,541**
**PURIFYING CARBON DISULPHIDE**
**Arnold Beichelt, Larchmont, N. Y., assignor to Stauffer Chemical Company, a corporation of California**
**Application December 11, 1943, Serial No. 513,891**
**6 Claims. (Cl. 202—40)**

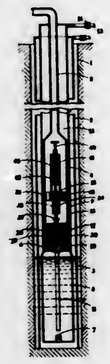


1. A process for separating and recovering substantially pure carbon disulphide from the vapor stream evolved from a carbon disulphide retort and including hydrogen sulphide and sulphur, said process including utilization of a first and a second rectifying column, the process comprising introducing said vapor stream as such and without any substantial prior cooling into the first column, scrubbing said vapor stream in said first column with crude liquid carbon disulphide to cool said vapor stream to an extent only sufficient substantially to condense sulphur which collects as a liquid in the bottom of the first column, removing a gas stream from the top of the first column, cooling said stream to condense carbon disulphide and provide (1) an uncondensed gas fraction and (2) crude liquid carbon disulphide, returning a portion of said liquid carbon disulphide to the first column to scrub said vapor stream as aforesaid, introducing the balance of the crude liquid carbon disulphide and said gas fraction into the second column to separate carbon disulphide from hydrogen sulphide and other uncondensable gases, and recovering the carbon disulphide from the second column as a substantially pure product.

---

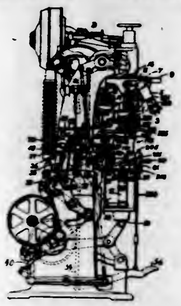
**2,391,542**
**GAS LIFT PUMPING APPARATUS**
**Jan Lambertus Benard, Southwell, England**
**Application February 3, 1944, Serial No. 520,887**
**In Great Britain November 24, 1942**
**8 Claims. (Cl. 103—231)**

1. A gas-lift pumping apparatus for periodically raising from an outside source to an elevated delivery point successive charges of liquid first admitted within a closed liquid displacement receptacle, consisting in combination of a liquid displacement receptacle, a pressure-gas receptacle disposed above said liquid displacement receptacle, means for the admission of pressure-gas to said pressure-gas receptacle whereby the determined operating pressure is there attained, an inner casing within said pressure-gas receptacle, a pressure-gas inlet valve housing at the lower part of said inner casing, said housing having a vertical passage-way, a pressure-gas inlet valve normally closed under upward spring pressure, and mounted within said passage-way, a radial port in said housing extending from said pressure-gas receptacle to a cavity in said housing beneath said pressure-gas inlet valve, a pressure-gas inlet port extending upward in the said housing from its lower face and communicating with said vertical passage-way at a position immediately above said pressure-gas inlet valve, an outlet port for the liquid raised from the said liquid displacement receptacle, extending from top to bottom of said housing, an eduction pipe depending from said



housing into said liquid displacement receptacle to the lower part thereof, and communicating with said outlet port, and automatic means mounted within said inner casing adapted under the determined operating pressure of the pressure-gas, comprising a pilot valve and a cylinder piston and valve device, whereby the pilot valve is opened to admit the pressure-gas into the cylinder of said cylinder, piston and valve device, whereupon the valve of said cylinder, piston and valve device descends and opens the pressure-gas inlet valve, and closes said vertical passage-way at the upper end, pressure-gas being thus admitted to the upper end of the liquid displacement receptacle, the liquid discharged from the liquid displacement receptacle passing upwardly through the eduction pipe, and thence through the inner casing and the rising main to the delivery point, the valve of said cylinder, piston and valve device being raised from its seat on the closure of said pressure-gas inlet valve, at the conclusion of each operational cycle and pressure-gas receptacle re-charged with pressure-gas and the liquid displacement receptacle with liquid.

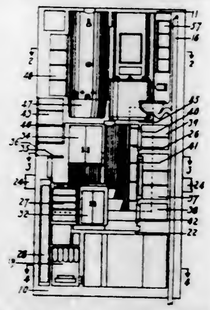
2,391,543
**HEEL ATTACHING MACHINE**
Joseph Welton Carr and Thomas Baggott Clarke, Leicester, England, assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application January 6, 1943, Serial No. 471,412
In Great Britain February 11, 1942
28 Claims. (Cl. 12—19.2)



1. In a heel-attaching machine, means for inserting fasteners in the heel-seat of a shoe, and means for pressing together the shoe with its fasteners and a heel to cause the attachment of said heel, the fastener-inserting means and pressing means and the work being movable relatively to one another to permit the successive operations upon said work.

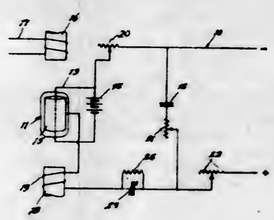
---

2,391,544
**HOUSING UNIT**
Henry Otis Chapman, Cedarhurst, and Randolph Evans, Bronxville, N. Y.
Application April 26, 1943, Serial No. 484,552
2 Claims. (Cl. 20—2)



1. A structural unit for installation in a building comprising a top, a bottom, a plurality of side walls, a floor between the top and the bottom forming two rooms within the sides, one superimposed over the other, said floor being cut away adjacent one side wall to provide head room, a lavatory in the upper room overlying the cutaway portion of the floor, a wall section between the lavatory and said floor to conceal the cutaway portion, a staircase in the lower room beneath the cutaway portion and a doorway and door in the said one side wall between the lower room and the exterior of the unit and having their lower edges disposed at a level between the floors of said rooms.

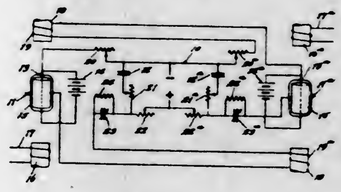
2,391,545
**SELF-PULSING CIRCUIT**
Marvin Chodorow, New York, N. Y., assignor to Maguire Industries, Incorporated, a corporation of New York
Application August 23, 1943, Serial No. 499,719
3 Claims. (Cl. 250—36)



1. A self-pulsing circuit comprising a cathode-anode tube, an external circuit between the anode and the cathode of said tube, and a condenser and a variable resistance in series connected in parallel with said tube in said external circuit, in combination with an electro-magnetic winding connected in series with said tube in said external circuit, said winding being disposed adjacent said tube with its axis substantially at right angles to the direction of the electron path, and a separately and continuously excited electro-magnetic winding also disposed with its axis substantially at right angles to the direction of the electron path, said separately excited winding being turned oppositely to said first-named winding, said condenser periodically discharging to cause said tube to conduct, said separately excited winding continuously opposing conducting of said tube, and said first-named winding opposing action of said separately excited winding when said tube conducts to lower the voltage at which said tube conducts and thereby lengthen the resulting pulse.

---

2,391,546
**MAGNETIC MULTIVIBRATOR**
Marvin Chodorow, New York, N. Y., assignor to Maguire Industries, Incorporated, a corporation of New York
Application August 28, 1943, Serial No. 500,253
9 Claims. (Cl. 250—36)



1. A multi-vibrator comprising a circuit, two magnetron tubes in said circuit, means for periodically increasing the voltage across one of said tubes, and electromagnetic means governed by the action of one tube for increasing the opposition to conducting of the other tube.



2,391,547
**FABRIC FEEDING SYSTEM**
Samuel Cohn, New York, and Jules G. Walter, Ridgewood, N. Y.
Application May 25, 1944, Serial No. 537,302
6 Claims. (Cl. 26—55)



1. Apparatus for feeding fabric comprising a spreader frame adapted to fit within continuous lengths of tubular fabric, internal rollers engaging the inner surface of the fabric and having inclined surfaces at each side of a central radial plane and substantially cylindrical surfaces perpendicular to said plane and extending centrally from said inclined surfaces, and external rolls engaging the outer surface of the fabric opposite the internal rollers and having inclined and cylindrical surfaces matching and cooperating with the similar surfaces of the inner rollers to relatively center the rolls and rollers and floatingly support the propeller and simultaneously apply the direct perpendicular pressure of the cylindrical surfaces to the fabric as it passes between said rolls and rollers.

---

2,391,548
**TOBACCO PIPE**
Gedeon R. Compiois, New York, N. Y.
Application July 21, 1944, Serial No. 545,951
3 Claims. (Cl. 131—211)

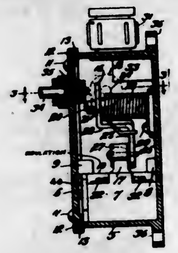


1. A pipe for smoking tobacco comprising a bowl having a chamber for tobacco, a longitudinal bore below said chamber opening through opposite sides of said bowl, a vertical bore connecting said chamber and longitudinal bore, a split lengthwise of said longitudinal bore and extending through the bottom of said bowl, a screw hole extending through and across said split, a screw in said hole, a barrel in said longitudinal bore extending beyond said bowl at opposite sides thereof, said screw when tightened forcing the side walls of said longitudinal bore to grip said barrel, a removable cap covering one extending end of said barrel, a tube disposed over the other end of said barrel, a stem secured in the other end of said tube, and a fitting in said vertical bore securing said barrel to said bowl.

---

2,391,549
**DOOR SWITCH**
David Conlan, New York, N. Y., assignor to Conlan Electric Corporation, Brooklyn, N. Y.
Application April 19, 1943, Serial No. 483,688
10 Claims. (Cl. 200—54)

7. A switch of the character disclosed, comprising a box having a removable cover, a forwardly projecting lug on the back of the box and a rearwardly projecting lug on the inside of the cover, both located a distance above the bottom of the box, a switch having a base removably fitting in the bottom portion of the box beneath said lugs and thereby confined in definite position when said cover is on the box, said switch having an upwardly projecting lever for actuating the same, a lever pivotally mounted in the box above said switch and having an upwardly projecting arm and a downwardly projecting arm, said downwardly projecting arm having a detachable operating connection with said switch lever, a plunger operating through the side of the box and having operative engagement with said upwardly projecting arm of the lever and spring means for effecting yielding projecting movement of said plunger.



---

2,391,550
**COLLET CHUCK**
Wilfrid Compton Cope, Wheberley, Coventry, England
Application November 15, 1943, Serial No. 510,391
In Great Britain March 27, 1943
2 Claims. (Cl. 279—50)



1. A collet chuck comprising a chuck body having an axial bore, a collet located in said bore and comprising a tubular metal element slotted in its receiving end and having a frusto-conical face, said body having a large diameter externally screw-threaded rear portion and concentric therewith a reduced diameter front portion, in combination with an externally screw-threaded sliding member telescoped on the front portion of said body and having a complementary frusto-conical surface engaging said frusto-conical face, the threads on said body and the threads on said sliding member being of different pitch, a rotatable locking sleeve having internally screw-threaded portions respectively engaging and cooperating with the respective externally threaded portions of said body and said sliding member, means for preventing relative rotary movement between said collet and body, means for preventing relative rotary movement between said slid-

ing member and body and for adjusting the angular position of said sliding member with respect to said body and said collet, and means carried by said collet and presented in the direction of its axis to an opposing axial face of said body to prevent axial movement of said collet relative to said body in the direction of axial thrust of said sliding member on the frusto-conical face of said collet incident to the closing of the collet about a tool or work-piece.

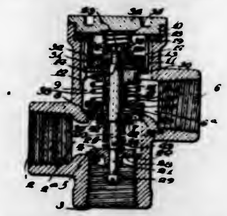
---

2,391,551

## BY-PASS CONTROL VALVE

Harold Cruzan, Dayton, Ohio, and Harry T. Booth, Glencoe, Ill.; said Cruzan assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio

Application January 8, 1943, Serial No. 471,716
20 Claims. (Cl. 137—153)



9. A flow control device for a fluid, the viscosity of which varies in accordance with changes in temperature, including a casing having an inlet, an outlet and a by-pass, all of which are interconnected, a valve normally biased to closed position between the inlet and the outlet, means associated with said valve and effective to create successive predetermined low and high pressure differentials between the inlet and the by-pass, said pressure differentials being substantially constant, and means for opening said valve when the inlet pressure after rising above a predetermined value decreases below said value.

---

2,391,552

## STABILIZED AROMATIC COMPOUNDS

David Curtis, New York, N. Y.

No Drawing. Application February 25, 1942, Serial No. 432,322
5 Claims. (Cl. 167—52)

2. As a new composition of matter, a preparation containing an anaesthetic salt, an oxidizable vaso-constrictor, and, as an anti-oxidant, an addition product of an aromatic aldehyde with a salt selected from the group consisting of bisulphite salts, hydrosulphite salts and metabisulphite salts.

---

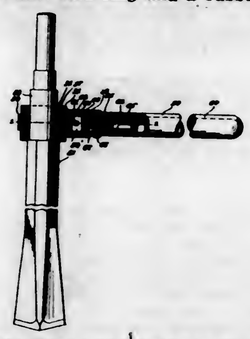
2,391,553

## BIT CONTROL FOR PERCUSSIVE TOOLS

Alonzo G. Decker, Jr., Baltimore County, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland

Original application November 1, 1940, Serial No. 363,811. Divided and this application February 18, 1943, Serial No. 476,310
2 Claims. (Cl. 255—43)

1. The combination with an impact receiving shank for a power hammer bit of a directing handle for the bit, said handle having a ring portion encircling the shank, the inner periphery of said ring being considerably larger than the shank, a second ring of outside diameter less than the inside diameter of the first said ring and located within the first said ring and a rubber cushion



between said rings and vulcanized to both said rings, said second ring encircling and closely engaging the shank.

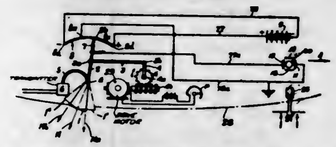
---

2,391,554

## METHOD OF AND APPARATUS FOR DETERMINING THE GROUND SPEED AND/OR COURSE OF AIRCRAFT

Lee de Forest, Los Angeles, Calif.

Application February 12, 1944, Serial No. 522,050
15 Claims. (Cl. 250—1)



1. In the art of determining the ground speed and/or course of a moving aircraft, those steps which consist in transmitting an incident beam of electromagnetic energy at a small angle to the vertical from said moving aircraft to impinge upon a respective transient area of contact at which said beam touches the surface of the earth and at which said incident beam is reflected upwardly from said area, moving said incident beam relative to said moving aircraft in order to shift said area along the surface of the earth independently of any shift of said area which is produced by the movement of the aircraft and to recurrently shift said area in a direction opposed to the direction of movement of the aircraft, thus producing a modulation of the reflected beam which is dependent at least in part on the movement of said incident beam relative to said aircraft, and receiving said modulated reflected beam on said aircraft.

---

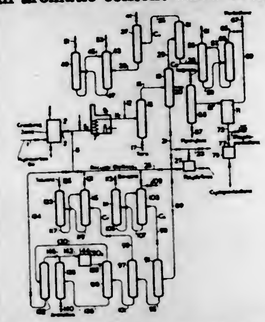
2,391,555

## PRODUCTION OF DIENES

Martin de Simo, Piedmont, and Robert M. Roberts, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 16, 1941, Serial No. 398,265
4 Claims. (Cl. 260—680)

3. In the process of producing diolefins the steps comprising cracking a straight run hydrocarbon oil selected from the group consisting of naphtha, kerosene and gas oil at a temperature below 600° C., fractionating the resulting cracked products to produce a cracked distillate consisting of $C_5$ and higher hydrocarbons boiling below about 120° C., having a bromine number above 40 and an aromatic content below 30%, treating



said cracked distillate to remove gum forming components, recracking said cracked distillate at a temperature between 650° C. and 850° C. under conditions to gasify 15% to 85% thereof, whereby diolefins are formed and separating said diolefins and aromatics from each other and the other resulting cracked products.

---

2,391,556

## FLUID PRESSURE PUMP

William N. Eddins, San Antonio, and Carl C. Thurman, Freer, Tex.

Application October 8, 1943, Serial No. 505,440
8 Claims. (Cl. 103—46)



1. A control device for the admission of pressure fluid to a well tubing to elevate the well liquid comprising a well tubing, a standing valve therein, a pump chamber, a piston therein, a travelling pipe connected to said piston to conduct liquid from said standing valve to a point in the tubing above said pump chamber, travelling valves to check back flow through said pipe, a slide valve slidably carried by said tubing and projecting into said chamber through said piston and having a passage therethrough to admit pressure fluid into said chamber below the piston, and means on said slide valve to be engaged by said piston adjacent the ends of its stroke to move said valve to admit or exhaust pressure fluid below said piston.



2,391,557

## FOUNTAIN PEN

Ejnar Erik Ejerson, Stockholm, Sweden

Application January 28, 1944, Serial No. 519,989
In Sweden December 30, 1942
4 Claims. (Cl. 120—42)



1. In a fountain pen comprising a replaceable and removable ink container, a pen nib holder and an ink conducting plug for conducting ink from the container to the nib holder, a centrally apertured plate member closely fitting the interior of the lower portion of said container, a packing member abutting said plate and having an aperture in registry with the aperture in said plate, an ink conductor carried by the pen nib holder and having a portion extending through the alined apertures in said packing and plate and a plug member integral with said pen nib holder having a bore through which the ink conductor extends and further having a circular edged portion firmly contacting said packing.

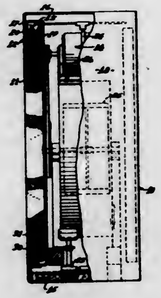
---

2,391,558

## PAD FOR EVAPORATIVE COOLERS

Bryant Easick, Los Angeles, Calif.

Application August 30, 1944, Serial No. 551,982
7 Claims. (Cl. 261—97)



1. A pad for an evaporative cooler including, a porous envelope, and a body of wood excelsior in the envelope including red wood having the property of retarding bacterial growth and white wood having a springy nature.

**2,391,559**
**BEVERAGE**
**June E. Faulkner, Chicago, Ill.**
No Drawing. Application December 18, 1941, Serial No. 423,471
2 Claims. (Cl. 99—57)

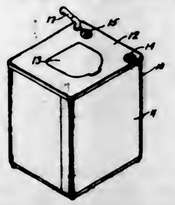
1. Process of making a palatable and potable water solution of a foaming agent suitable for incorporation in beverages which comprises dissolving milk whey protein in an aqueous solution of sodium hydroxide and sodium chloride containing about 0.60% NaOH and about 1.30% NaCl, acidifying the resulting solution with a non-poisonous acid to a pH of about between 4 and 5, thereby precipitating undesired proteinaceous components, and separating said components from the solution.

**2,391,560**
**FELTING NEEDLE AND METHOD OF MAKING THE SAME**
**Edson P. Foster, Manitowoc, Wis., assignor to Adeline P. Foster, Torrington, Conn.**
Application January 3, 1944, Serial No. 516,871
18 Claims. (Cl. 28—4)



1. As a new article of manufacture, a felting needle having a body portion provided with a spur, said spur being formed by side walls extending generally lengthwise of said body, said side walls having alternate concave and convex surfaces with their lower edges spaced apart, and an end wall extending generally lengthwise of said body, said end wall having a convex surface with the lower edge of the end wall joining the lower edges of the convex surfaces of said side walls.

**2,391,561**
**DRAIN MECHANISM**
**Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Nineteen Hundred Corporation, St. Joseph, Mich., a corporation of New York**
Application December 2, 1943, Serial No. 512,580
15 Claims. (Cl. 68—12)



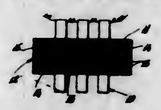
1. A drain mechanism for a washing machine or the like comprising a support, a discharge tube pivotally mounted with respect to said support and swingable between two extreme positions, means biasing said tube toward one of its positions, means for retaining the tube in the other of its positions against the biasing means, and means for releasing the retaining means whereby the biasing means shifts the discharge tube to its first mentioned position.

**2,391,562**
**SEMIAUTOMATIC RIFLE**
**Raymond Frederick Gerfen, Belleville, Ill.**
Application April 21, 1943, Serial No. 483,934
1 Claim. (Cl. 42—3)



A semi-automatic rifle comprising a frame, a bolt slidable in said frame, a firing pin slidable in the bolt, a latch pivotally mounted on the frame and engageable with the bolt for releasably securing said bolt against rearward sliding movement in said frame, a spring actuated plunger slidable in the bolt for disengaging the latch for releasing said bolt, and means operable by the firing pin for releasably securing the plunger in retracted position, said means including a spring pressed pawl pivotally mounted on the frame and engaged with the plunger, and a cam surface on the firing pin engaged with said pawl for disengaging same from the plunger.

**2,391,563**
**HIGH FREQUENCY COIL**
**Simon Goldberg, New York, N. Y., assignor to Super Electric Products Corp., Jersey City, N. J., a corporation of New Jersey**
Application May 18, 1943, Serial No. 487,436
2 Claims. (Cl. 175—359)

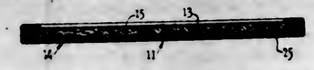


1. In an article of the character described, a core and a coil mounted on the core; said core comprising particles of magnetite and particles of material containing iron; all of said particles being individually dielectrically coated in an assembly to form core structure; said coil being so positioned along the core whereby the inductance drift caused by thermal changes in the coil and the opposite occurring inductance drift caused by said core are substantially identical, whereupon the inductance of the coil is maintained substantially constant during the passage of a high frequency electrical current through the coil.

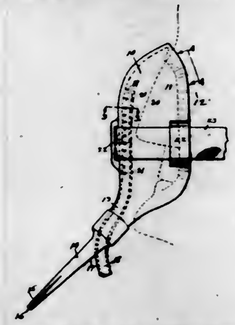
**2,391,564**
**SHOE AND OUTSOLE THEREFOR AND METHOD OF MAKING THE SAME**
**Jon Gregg, New Hope, Pa.**
Application September 29, 1944, Serial No. 556,396
3 Claims. (Cl. 36—30)

3. An outsole comprising an inner sole-shaped member, said inner member being made of porous material, a layer of textile fabric enclosing the bottom and peripheral edge of said inner member, said fabric including strands of fibrous material and strands of thermoset material penetrating into said inner member and into the fibrous strands of said textile fabric, and an outer coating of waterproofing material on said sole.



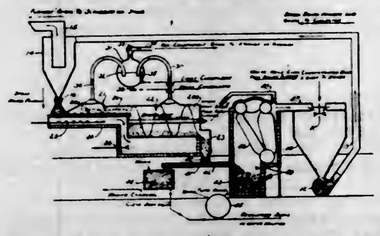


**2,391,565**
**WELDER'S MASK**
**Thomas H. Grindrod and Arthur E. Church, Portland, Oreg.**
Application March 14, 1944, Serial No. 526,371
1 Claim. (Cl. 128—146)



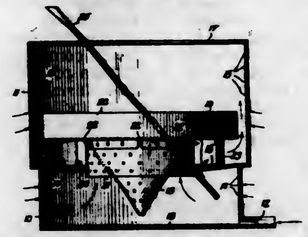
A device of the class described consisting of a nose piece adapted to cover the nose and mouth of the wearer, the edges thereof contacting the cheeks of the wearer, said edges being fluted to permit the outward flow of air therethrough, and means for injecting fresh air along the front of the nose piece and discharging it outwardly in both directions toward the cheek engaging edges.

**2,391,566**
**METHOD AND APPARATUS FOR RECOVERING INORGANIC BY-PRODUCTS FROM WASTE PULP LIQUOR**
**Edward G. Goodell, Stevens Point, Wis.**
Application December 26, 1941, Serial No. 424,412
3 Claims. (Cl. 202—19)



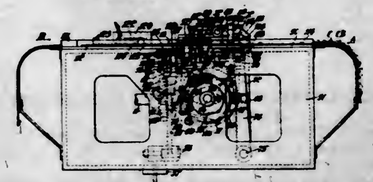
1. The method of recovering by-products from waste liquors obtained in the soda pulp process which includes spray drying said liquors, advancing the resulting spray dried solids in a loosely powdered condition, subjecting said solids while being so advanced to a sufficiently high temperature partially to char the same and thus convert the same directly into a relatively friable and non-sticky state, destructively distilling said partially charred solids while the same are kept in motion, said charring and distilling being carried out in sealed space, recovering the solid residue from said distillation separately from the volatile products thereof, burning said recovered solid residue, separating soluble inorganic matter from the solid products of said burning step and spray drying additional amounts of said waste liquors in the volatile products of said burning step for utilizing the heat content thereof and for washing out soluble inorganic matter suspended therein.

**2,391,567**
**OIL BURNER**
**Hilmer B. Hager, Chicago, Ill.**
Application July 20, 1944, Serial No. 545,775
5 Claims. (Cl. 158—91)



1. In an oil burner of the type characterized by a lower chamber having air inlets and a fuel inlet, an upper chamber having air inlets, which upper chamber is arranged above the lower chamber in communication with the same, and a constriction in the form of an inturned annular flange or baffle between the chambers; the provision of a control device at the location of the baffle, said device comprising a hollow upwardly opening perforated insert which is centered within the burner in inwardly spaced concentric relation to the baffle to provide an annular passage therebetween and extends from a point above the baffle to a point a substantial distance below the same in spaced relation to the sides of the burner, and said insert terminating downwardly in close proximity to the bottom of the lower chamber.

**2,391,568**
**MACHINE FOR INSERTING CARTRIDGES INTO CARTRIDGE BELTS FOR AUTOMATIC GUNS**
**Charles Thomas Hall and Richard William Harris, London S. E. 8, England**
Application January 29, 1943, Serial No. 473,982
In Great Britain February 11, 1942
4 Claims. (Cl. 86—48)



1. A machine for inserting cartridges into fabric-type belts provided with loops for receiving the cartridges, comprising means for intermit-

tently feeding the belt in the direction of its length, means for moving cartridges transversely of the belt and inserting a cartridge into a loop, means for turning a cartridge being fed towards the belt obliquely with respect to the length of the belt so that the nose of the bullet of said cartridge is directed towards that end of the corresponding loop which is the rear end, considered in the direction in which the belt is being fed, and means for locating such end of the loop relatively to the nose of the bullet to facilitate the insertion of the cartridge.

---

**2,391,569**
**PROCESS OF TREATING CELLULOSIC MATERIAL**
**Clifford I. Haney and Mervin E. Martin, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application January 20, 1942, Serial No. 427,440**
**19 Claims. (Cl. 260—229)**

19. The method for activating cellulose to prepare it for esterification, which comprises treating the cellulose with a mixture of a fatty acid of 3–4 carbon atoms, 1/20 part of formic acid based on the weight of the cellulose, and a small proportion of sulfuric acid until the desired activation has occurred.

---

**2,391,570**
**MACHINIST'S CALCULATOR**
**Earl H. Haviland, Baltimore, Md.**
**Application March 20, 1943, Serial No. 479,849**
**2 Claims. (Cl. 235—66)**

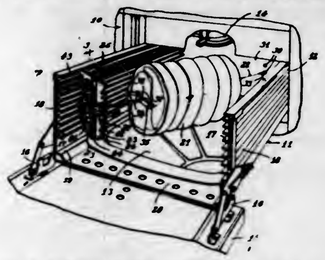


1. In combination, a body, a revolving mechanism associated therewith comprising, a barrel piece with an enlarged flanged end for manual operation thereof, an index shield disposed against the said barrel piece, a toothed drum rotatably mounted in the shield normally rotatable therewith, said drum having indicia thereon for display through an aperture in the shield, means for holding said element against the body and rotatably supporting them, a pawl mounted in the body normally free of the toothed drum and adapted when actuated to lock the toothed drum momentarily against rotation, means to actuate the pawl once for each revolution of the index shield, means in the barrel piece for displaying a given value on the toothed drum which has been positioned at the aperture in the index shield, the rotation of the elements being correlated with a second set of indicia on the index shield, a set of indicia on the body and markings on the barrel piece.

---

**2,391,571**
**BARBECUING ATTACHMENT FOR DOMESTIC COOKING RANGES**
**John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois**
**Application September 5, 1941, Serial No. 409,725**
**20 Claims. (Cl. 126—41)**

1. A device of the class described comprising, in combination, a support having a bottom and spaced substantially parallel side walls and an end wall in transverse relation thereto, the end wall having a hole provided therein near one of the side walls, a bracket detachably secured to the inner side of the other side wall in remote relation to the end wall and having a notch provided therein in approximate horizontal alignment with the aforesaid hole for rotatable support on a substantially horizontal axis of a rotary spit member, and a rotary spit member removably engaged at one end in the hole and at the other end in the notch for support in a position substantially diagonally relative to the bottom of said support and in vertically spaced relation thereto, the rotary spit member being removable through the open end of said support.



---

**2,391,572**
**METHOD FOR PRODUCING ELECTRONIC DEVICES**
**Carl Herzog, Belleville, N. J.**
**Application January 25, 1944, Serial No. 519,666**
**11 Claims. (Cl. 316—24)**

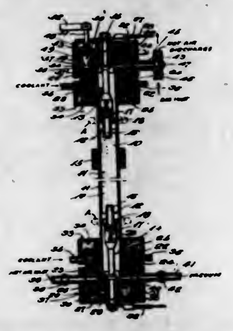


1. In a method of producing an electronic device, the steps of supporting a tube having its opposite first and second ends open, introducing into the first open end of the tube an electrode having a radially enlarged part, heating such first open end and fusing the same to the radially enlarged part, introducing into the second open end of the tube a companion electrode having a radially enlarged part, evacuating the tube through the second open end, and heating the second open end and fusing the same to the radially enlarged part of the companion cathode.

---

**2,391,573**
**METHOD OF AND APPARATUS FOR MAKING COLD CATHODE FLUORESCENT LAMPS OR THE LIKE**
**Carl Herzog, Belleville, N. J.**
**Application March 7, 1944, Serial No. 525,446**
**11 Claims. (Cl. 316—11)**

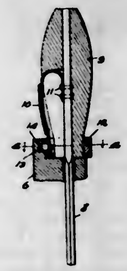
1. The method of making a cold cathode fluorescent lamp or the like, comprising supporting a glass tube having its opposite ends open and its inner surface coated with an unbaked fluorescent compound, introducing electrodes into the tube near its ends, circulating hot air through the tube to bake the coating, evacuating the tube, connecting the electrodes with a source of current to heat them and the tube to aid in the baking, heating the electrode near one end of the tube by induction and causing the same to heat and plasticize the adjacent portion of the tube and fusing such adjacent portion to the electrode, cutting off the outer adjacent end of the tube, introducing an inert gas into the tube, introducing mercury into



the tube, heating the other electrode by induction and causing the same to heat and plasticize the adjacent portion of the tube and fusing such adjacent portion to the electrode, and cutting off the outer adjacent portion of the tube.

---

**2,391,574**
**DEVICE FOR LOCKING HUNTING KNIVES IN THEIR SCABBARDS**
**Glenn Edward Housinger, Harlingen, Tex.**
**Application September 30, 1943, Serial No. 504,478**
**1 Claim. (Cl. 224—2)**

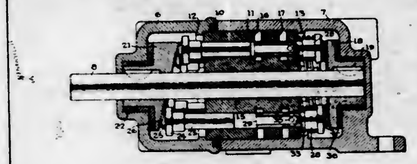


A device of the class described, comprising in combination, a scabbard having a head formed with an opening, the inner wall of the opening having a notch, a knife having a handle, adapted to be positioned in the scabbard, and said handle having a cut-out portion disposed longitudinally thereof and formed in the side of the handle, a spring arm, one end of the spring arm being secured within the cut-out portion, the main portion of the spring arm extending beyond the outer surface of the handle, the free end of the spring arm lying adjacent to the scabbard and adapted to extend into the opening of the head thereof, a pin on the free end of the spring arm adapted to engage within the notch formed in the head of the scabbard, securing the knife within the scabbard, and said spring arm and pin adapted to move inwardly away from the notch, releasing the knife, when the handle is gripped to remove the knife from the scabbard.





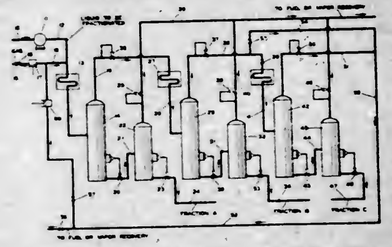
**2,391,575**
**REVERSIBLE ENGINE**
**Matthew W. Huber, Chicago, Ill., assignor, by mesne assignments, to The New York Air Brake Company, a corporation of New Jersey**
**Application January 7, 1943, Serial No. 471,598**
**6 Claims. (Cl. 103—173)**



1. In an expansible chamber engine, the combination of a rotary shaft; any number of expansible chamber units, each comprising an open ended cylinder having supply and exhaust ports, a main piston closing one end of the cylinder, and a distributing valve of the piston type closing the other end of the cylinder, whereby an intervening working space is formed, the piston valve serving to connect said supply and exhaust ports alternately with the working space; and mechanical connections between the shaft and main pistons and between the shaft and piston valves so arranged that as the shaft rotates the main pistons reciprocate and the piston valves reciprocate with a shorter stroke than, and each valve reciprocates substantially 90° out of phase with, the corresponding main piston.

---

**2,391,576**
**HIGH PRESSURE SEPARATION**
**Donald L. Katz, Ann Arbor, Mich., and Thomas H. Whaley, Jr., Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware**
**Application September 5, 1942, Serial No. 457,490**
**12 Claims. (Cl. 196—73)**

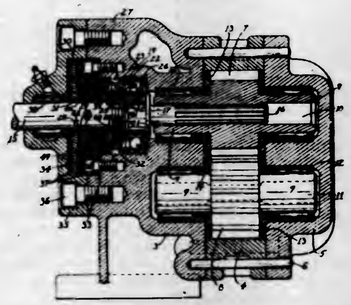


1. The process of separting hydrocarbon mixtures into a plurality of fractions differing one from another in physical properties comprising contacting a mixture of normally liquid hydrocarbons with a light hydrocarbon gas at a pressure above approximately 1,000 pounds per sq. in. and at a temperature within the range of approximately 0° to 400° F. and at point within the vapor-liquid two-phase region of the resulting mixture whereby at least a portion of the normally liquid hydrocarbons is vaporized, separating the resulting vapor phase as a first vapor phase from the residual liquid phase, removing said first vapor phase and reducing the pressure thereon to a pressure within its vapor-liquid two-phase region to produce by retrograde condensation a second liquid phase, separating the said second liquid phase from the uncondensed

vapors termed the second vapor phase, removing said second vapor phase and reducing the pressure thereon to a pressure within its vapor-liquid two-phase region to produce by retrograde condensation a third liquid phase, separating the said third liquid phase from the uncondensed vapors and removing these latter uncondensed vapors.

---

**2,391,577**
**ROTARY PUMP SHAFT SEAL**
**Swan E. Larson, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois**
**Application March 19, 1943, Serial No. 479,737**
**17 Claims. (Cl. 308—187.1)**

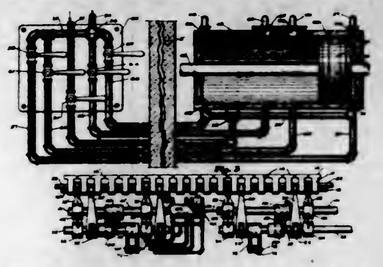


1. In a device of the character described, a seal assembly for a rotary shaft having an outer casing, and a thrust bearing for said shaft to limit endwise movement thereof, said seal assembly including, in combination with means providing a seal ring engaging surface in the casing in spaced relation to said thrust bearing, a hollow seal ring adapted to turn with the shaft in engagement with the aforesaid surface to form a running seal therebetween, compressible packing material closely surrounding said shaft within said seal ring, a washer surrounding the shaft behind said packing material for compressing the same, another washer surrounding the shaft and engaging the thrust bearing in spaced relation to the last named washer, a thrust ring threaded on the shaft between said washers having means for locking the same against turning relative to the shaft from adjusted position, said thrust ring having longitudinal holes provided therein in circumferentially spaced relation, coiled compression springs housed in said holes and having engagement at their opposite ends with the washers, whereby to compress the packing material and urge the hollow seal ring into engagement with the aforesaid surface, and means providing a positive sliding driving connection between the thrust ring and hollow seal ring.

---

**2,391,578**
**POSITION CONTROL MECHANISM**
**Howard F. Lawrence, Philadelphia, Pa., assignor, by mesne assignments, to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application August 31, 1943, Serial No. 500,629**
**18 Claims. (Cl. 110—44)**

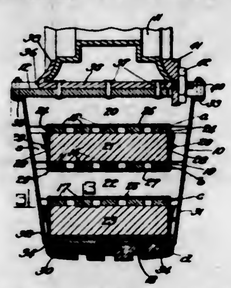
1. In a device of the class described, the combination of a series of dump plates arranged in side by side relation, means for controlling the position of adjustment of said dump plates, said last mentioned means comprising adjustable stop means, and means operable by said dump plates



for engaging said stop means to hold said dump plates in adjusted position.

---

**2,391,579**
**TIRE**
**Barney B. Levy, Middleboro, Mass.**
**Application October 29, 1942, Serial No. 463,729**
**2 Claims. (Cl. 152—252)**



1. A resilient tire adapted to be mounted as a unitary structure upon the wheel of a vehicle comprising a ring-like support adapted to fit upon a wheel of a vehicle, spaced concentric radially resilient means positioned concentric with said support, a series of spaced blocks between radially resilient means, a series of spaced blocks between the adjacent radially resilient means and between the innermost resilient means and said support to maintain said means spaced from one another and from said support, each adjacent series of blocks engaging circumferentially spaced portions of the radially resilient means positioned therebetween to obtain a substantially uniform radial resiliency throughout the tire, a wear resisting tread carried by the outermost resilient means, and means for detachably securing the resilient tire to said wheel, each of said resilient means between said support and the outermost resilient means including a plurality of radially resilient axially aligned rings of equal diameter.

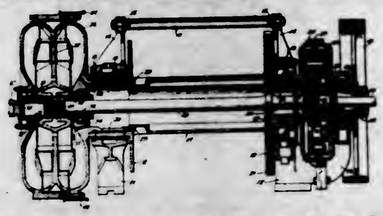
---

**2,391,580**
**LOAD HANDLING APPARATUS**
**Arthur Mackmann and Wallace F. Ardussi, Chicago, Ill., assignors to Foote Bros. Gear and Machine Corporation, Chicago, Ill., a corporation of Delaware**
**Application April 3, 1943, Serial No. 481,726**
**10 Claims. (Cl. 254—186)**

8. Load handling apparatus comprising a frame having a pair of spaced uprights, bearings



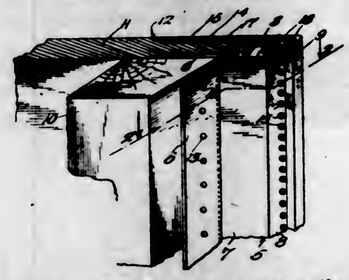
carried by the uprights, a reel between the uprights having a hollow drum portion and annular hubs at its ends rotatably supported by the bearings, a coupling casing having vanes on its interior and an annular hub at one end slidably keyed into one of the hubs on the reel, a tube axially and rotatably supported in the casing, a vaned rotor member carried by the tube and fit-



ting in the coupling casing, a gear casing having an annular hub slidably keyed into the other hub on the reel, an annular gear carried by the gear casing, planet gears in the gear casing meshing with the annular gear, a sun gear in the gear casing meshing with the planet gears, and a shaft slidably keyed at one end in said tube and at its other end to the sun gear and extending loosely through the reel.

---

**2,391,581**
**CORNER CONSTRUCTION AND FINISHING BEAD FOR WALLS**
**Arthur C. Markuson, San Francisco, Calif.**
**Application January 29, 1945, Serial No. 575,094**
**4 Claims. (Cl. 72—121)**



2. A bead-equipped corner shield of the class described comprising a tubular body substantially rectangular in cross sectional form, one corner thereof being fashioned into a finishing and reinforcing wall corner bead, a diagonally opposite corner thereof being provided with stud accommodation and attaching flanges, the opposed pairs intervening walls of said body functioning as foundation flanges, the inner flanges extending at right angles to the stud and being adapted to serve as abutment for adjacent ends of sections of wallboard and the other two flanges as foundations for laminated touch-up and finishing plaster.

---

**2,391,582**
**SPRAY CONTROL VALVE**
**Earnest E. Martin, Redondo, Calif., assignor to Ralph Walsh, Los Angeles, Calif.**
**Application May 2, 1944, Serial No. 533,697**
**12 Claims. (Cl. 299—95)**

12. A valve device of the character described comprising a body containing a bore, means forming a discharge orifice extending laterally through the side of said bore, an axially movable stem threaded into said bore and having a tapered end and a cylindrical portion adjacent said end, sealing means carried by the stem and operable to close and open said orifice, and a diaphragm normally sealing the flow of fluid through said bore to the orifice, an end portion



of the stem being movable in an advancing direction to cause its tapered end to penetrate the diaphragm and said cylindrical portion to enter the resulting opening in the diaphragm before said sealing means moves past and closes said orifice, so that said cylindrical portion of the stem remains in the diaphragm opening in both the orifice opening and closing positions of the sealing means.

---

**2,391,583**
**VALVE DEVICE**
**Earnest E. Martin, Redondo, Calif., assignor to Ralph Walsh, Los Angeles, Calif.**
**Application May 2, 1944, Serial No. 533,698**
**9 Claims. (Cl. 299—95)**



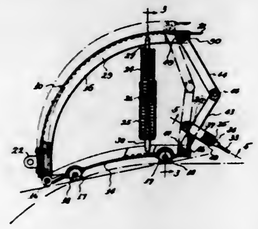
1. A valve device for dispensing from a container a spray of fluid maintained therein under pressure, comprising a body having a bore, a stem having screw threads interengaging body threads in said bore, a discharge orifice extending laterally in the body from said bore and positioned so that fluid released from the container escapes to the orifice through a restricted spiral space between said stem and body threads, and sealing means carried by the stem beyond the threads and operable upon axial movements of the stem to open and close said orifice.

---

**2,391,584**
**DRAFT OPERATED SCRAPER**
**Timothy F. McCarthy, Indiana, Pa.**
**Application January 19, 1945, Serial No. 573,505**
**7 Claims. (Cl. 37—147)**

1. In a scraper device of the class described, two wall portions pivotally connected adjacent their rear ends for lateral movement with respect to each other, means for urging said wall portions laterally away from each other, two rigid pivotally connected links connecting said wall por-

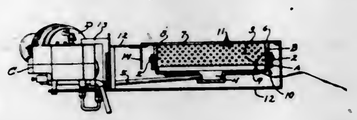
tions together, and a head rope connected to said links for slidable movement therealong to produce



a balanced draft on said scraper in all positions thereof with respect to said head rope.

---

2,391,585
**OIL BURNER**
**Clarence A. Miller, Petaluma, Calif., assignor to Kresky Manufacturing Company, Petaluma, Calif., a corporation of California**
Application February 8, 1944, Serial No. 521,505
1 Claim. (Cl. 158—92)



In an oil burner, the combination comprising a pair of castings enclosing an elongated mixing chamber of generally rectangular cross section, one of said castings forming a bottom box-like member, means for admitting and controlling the flow of fuel to the bottom of said last named casting, the other of said castings forming a cover member with a dependent peripheral skirt telescoping and spaced from the two longer sides of said bottom casting and resting on an internal shoulder formed in said bottom casting, the opposing longer sides of said dependent skirt provided with a plurality of air ports providing flow communication to said mixing chamber, said cover member being provided with an elongated central opening of generally rectangular configuration extending along the length of said cover member in flow communication with said mixing chamber and defining a peripheral, inwardly extending flange, said flange being operative to reflect a portion of the heat generated by the burning gases downwardly into the interior of said mixing chamber to aid in gasification of the fuel in said bottom casting, a housing enclosing and spaced from said castings and forming an air jacket in flow communication with said mixing chamber, an air blower in flow communication with one end of said housing and a baffle of generally rectangular configuration mounted on the interior top wall of said housing and disposed at a right angle to the flow of air from said blower and between said blower and said castings, whereby air supplied to said housing from said air blower is deflected and distributed around the ends of said castings adjacent said blower to said perforated skirt.

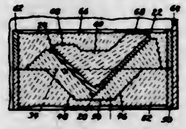
2,391,586
**AUTOMOTIVE VEHICLE SPEED CONTROL DEVICE**
**August F. Miller, Chicago, Ill., assignor to Vac-U-Matic Corporation, Chicago, Ill., a corporation of Illinois**
Substituted for abandoned application Serial No. 463,671, October 28, 1942. This application January 26, 1944, Serial No. 519,700
1 Claim. (Cl. 138—40)



A device of the character described including a supporting plate adapted to be inserted in the joint of an air-fuel line of an internal combustion engine, said plate having a frusto-conical depressed seat portion surrounding a substantially central opening, a sheet metal spider secured on the under side of the frusto-conical depression, a headed post mounted in the said spider, a disk-valve having a depending sleeve mounted on said post, resilient means for maintaining said disk-valve against the head of the post, the disk-valve being normally above the frusto-conical depression, but under the influence of vacuum and pressure differential in the air-fuel line the said valve is depressed toward said seat and thereby regulating the quantity of the air-fuel mixture.

---

2,391,587
**METHOD OF MAKING MOLDS HAVING TRANSITION CORES**
**Raymond J. Miller, Detroit, Mich., assignor, by direct and mesne assignments, to Miller Engineering Corporation, Detroit, Mich., a corporation of Michigan**
Application September 21, 1942, Serial No. 459,106
12 Claims. (Cl. 22—131)



1. The method of making cooperating mold and mold shaping members to define a casting cavity comprising contouring the side of a mold shaping member opposite from the casting cavity to permit removal of the mold section in the direction of back draft, applying a moldable substance to the contoured side of the mold shaping member to provide a female impression thereof, and applying a moldable substance to the female impression to form a production die pattern thereof.

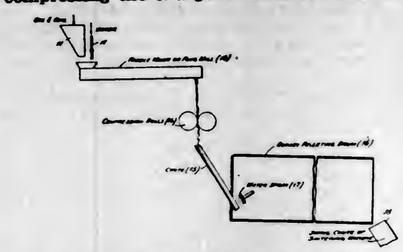
---

2,391,588
**METHOD OF PREPARING PELLETS FOR SINTERING**
**John S. Naratil, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey**
Application July 14, 1943, Serial No. 494,651
3 Claims. (Cl. 75—3)

1. In the preparation of a finely-divided charge for sintering, the improvement which comprises



compressing the charge to form coherent flakes



with water, moistening the flakes, and pelleting the moist flakes by rolling them on a surface.

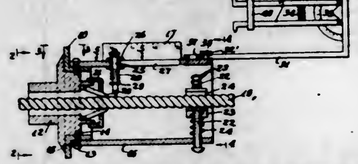
---

2,391,589
**ABRASIVE TOOL**
**Leon Nussbaum, London, England, assignor of one-half to Hatim Attari, London, England**
No Drawing. Application March 28, 1944, Serial No. 528,461. In Great Britain April 29, 1943
1 Claim. (Cl. 51—307)

An abrasive or cutting tool of the character described comprising a body formed of diamond particles bonded together by a bond which functions as a secondary abrasive and consists of a mixture of boron carbide, silicon carbide and at least one metallic carbide.

---

2,391,590
**THREAD AND STRANDED WIRE GAUGE**
**Steven Pantages, New York, N. Y.**
Application May 1, 1944, Serial No. 533,457
2 Claims. (Cl. 33—199)

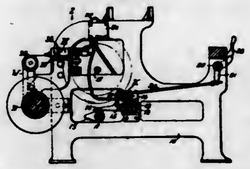


1. A thread gauge, comprising a collar having an angular scale, a knob cooperative with said scale and axially rotatively mounted in said collar, a tube provided with a linear scale and removably rotatably mounted axially of and on said collar, means connected with said knob for holding a helically grooved member axially through said tube, and a follower for said linear scale and longitudinally slidably mounted on said tube for engaging the groove of said helically grooved member, said knob being rotatively supported by the engagement of pins from said collar with peripheral grooves formed on said knob, said removable mounting of said tube comprising bayonet slots formed on one end of said tube and engaging with the projected ends of said pins.

---

2,391,591
**ELECTRIC WARP STOP MOTION**
**Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
Application October 23, 1944, Serial No. 559,938
3 Claims. (Cl. 139—351)

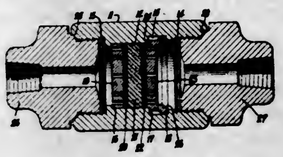
1. In an electric warp stop motion for a loom having a signal lamp and an electro-magnetic controller for loom stopping mechanism to be operated when the loom is stopped due to a warp fault, the loom having a two-electrode contact bar the electrodes of which are connected by a drop wire when the latter moves to stopping position, a source of electric power connected to the lamp, means constituting two electric circuits to be energized by said source of electric power, one circuit for said lamp and one for said controller, an electro-magnetic device energized by said source of electric power when the drop wire is in stopping position, switch means controlled by said device effective when the latter is energized to close both of said circuits, said one circuit



including said lamp, said switch means and said source of power and remaining closed after loom stoppage to cause illumination of the lamp so long as the electro-magnetic device is energized due to the drop wire being in stopping position, and a loom operated switch in the other circuit closed during loom operation and open when the loom is stopped, said other circuit including said source of power, said switch, said switch means and said controller and causing operation of the latter when the electro-magnetic device closes said other circuit, stoppage of the loom causing breaking of said other circuit due to opening of said switch and said one circuit remaining closed for operation of the lamp subsequent to loom stoppage.

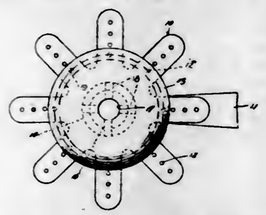
---

2,391,592
**FLASH ARRESTER**
**Ralph C. Pierson, Indianapolis, Ind., assignor to Union Carbide and Carbon Corporation, a corporation of New York**
Application May 2, 1940, Serial No. 332,994
16 Claims. (Cl. 48—192)



1. A flash arrester comprising a body having a chamber in the interior thereof through which acetylene or the like is conveyed; a first shoulder in the inner wall of said body, at one end of said chamber, the body being grooved at the opposite end of said chamber to form a second shoulder; a perforated plate abutting against said first shoulder and forming a seal therewith; a second perforate plate at the opposite end of said chamber; flash arresting material within said chamber between said plates; and retaining means deformed into said groove and engaging said second plate for holding said plates and material in said chamber, whereby said material cannot be replaced without destruction of at least a part of said flash arrester.

**2,391,593**
**SAFETY DEVICE**
**Joseph J. Porter, Fall River, Mass.**
**Application June 13, 1944, Serial No. 540,128**
**1 Claim. (Cl. 158—115)**



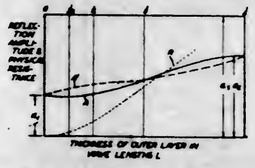
In a device for preventing the complete extinguishing of gas burners by overflowing liquid, said burners having centrally disposed holes and burner holes therein, a plate having a convex top surface and a flat lower surface, a cylindrical member of greater diameter than said centrally disposed holes but of lesser diameter than said plate coaxially associated with the undersurface thereof, a second cylindrical member coaxial with said first member and of less diameter than said centrally disposed holes, the arrangement being such that said second member fits into said holes and said first member is seated on the edge thereof, said plate being of a diameter sufficient to cover at least an interior ring of said burner holes but spaced therefrom by a distance equal to the length of said first-mentioned cylindrical member, whereby liquid overflowing a vessel placed on said burner is precluded from striking said covered holes, said safety device having a centrally disposed bore through the centers of said plate and said first and second members, and holes angularly disposed with respect thereto extending through the side of said first member at a level adjacent the flame from said burner holes whereby flame from said covered holes is conducted through said last-mentioned holes to said central bore and upwardly therethrough.

**2,391,594**
**COLLAPSIBLE ENCLOSED BOAT**
**Gaetano Provenzano, New York, N. Y.**
**Application November 4, 1943, Serial No. 508,883**
**1 Claim. (Cl. 9—2)**



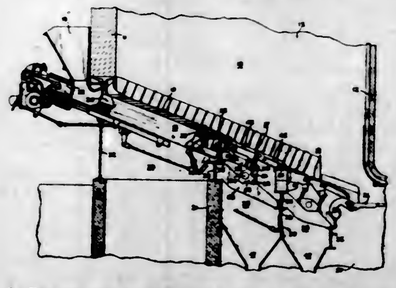
A collapsing boat consisting of a keel, a plurality of U-shaped cross ribs pivoted centrally to the keel in longitudinally spaced relation to each other, a bar pivoted to all of the cross ribs on each side of the keel and extending a major part of the boat to protect the bottom of the boat, each bar being arranged in parallel relation to the keel, a two piece linkage pivotally connected to one endmost cross rib and to the keel at one end of the boat, a similar two piece linkage pivotally connected to the other endmost cross rib and pivotally connected to the keel, whereby the cross ribs will be locked in open position, and a fabric covering connected to the cross ribs and keel.

**2,391,595**
**NONREFLECTIVE LENS COATING**
**Dorothy Llewellyn Richards, Azusa, and William C. Miller, Alhambra, Calif., assignors to Vard Inc., Pasadena, Calif., a corporation of California**
**Application November 27, 1942, Serial No. 467,094**
**5 Claims. (Cl. 88—1)**



1. Low reflectance light transmitting element in which a surface of a partially reflecting transparent body, having a thickness greater than the quarter-wave-length herein referred to, is provided with a film of low refractive index and of an optical thickness approximately one-quarter wave length of selected light for which minimum reflection is desired; characterized by the film being composed of two superimposed layers of transparent materials, the refractive index of each layer being substantially less than that of the transparent body, the outer layer being of substantially greater density and refractive index than the inner layer, and the outer layer and the inner layer each having a thickness which is a substantial fraction of the total quarter-wave-length thickness of the film.

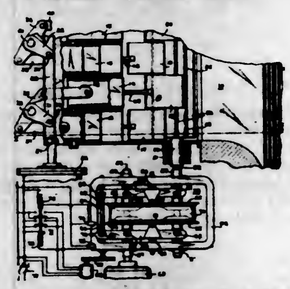
**2,391,596**
**STOKER APPARATUS**
**Arthur F. Schultz, Springfield, and Donald J. Moeshart, Ardmore, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 30, 1943, Serial No. 504,394**
**4 Claims. (Cl. 110—44)**



1. In an overfeed section for a furnace stoker, first and second transversely-extending rows of grate bars, considered in the direction of fuel feed, each of the grate bars of said first row having a forwardly-opening slot in its forward end providing a substantially horizontal bearing surface; pivotally-mounted supporting means for the grate bars of the first row comprising a plurality of bell cranks each having an upwardly-extending arm and a rearwardly-extending arm, a horizontally-disposed rod carried by each of the upwardly-extending arms and adapted to be received in the forwardly-opening slots of a plurality of the first row grate bars with the substantially horizontal bearing surfaces of the latter resting thereon, a pair of upwardly-extending and longitudinally-spaced lugs carried by the rearwardly-extending arms of each pair of adjacent bell cranks, said pairs of lugs providing transverse slots; a depending lug at the rearward end of each of the first row bars adapted to be received in said transverse slots; means for retaining said depending lugs in said transverse slots; means pivotally connecting the forward ends of the bars of the second row to the rearward ends of the bars of the first row, whereby movement of the latter is transmitted to the former; and means for supporting the rearward ends of said second row bars.



**2,391,597**
**SPREADER STOKER APPARATUS**
**Anthony F. Schwendner, Ridley Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 21, 1944, Serial No. 555,086**
**4 Claims. (Cl. 110—115)**



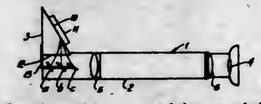
1. In a stoker of the "sprinkler" or "spreader" type, an impeller rotatable about a horizontal axis; a spill plate positioned with its rear discharge edge overlying said rotary impeller; means for feeding fuel rearwardly along said spill plate for discharge over the rear edge thereof to the rotary impeller therebeneath; a constant speed motor for rotating the impeller; and means acting between the motor and the impeller for automatically varying the speed of rotation of said impeller in cycles, whereby the trajectories of fuel leaving the impeller vary with consequent change in point of deposit of said fuel.

**2,391,598**
**SHEARS**
**Theodore Serdich, Gary, Ind.**
**Application July 15, 1944, Serial No. 545,083**
**3 Claims. (Cl. 30—233)**



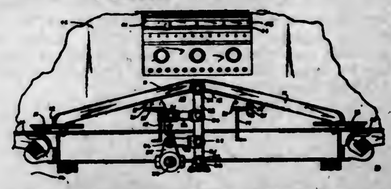
1. A tool for cutting sheet material in an arcuate path comprising a base member constructed and adapted to pass beneath a sheet to be cut, said base having an arcuate shaped cutting blade thereon, a blade mounting pivotally carried by said base and having a blade in opposed relation to the first named blade and having a curvature complemental to said first named blade, and handle means for moving the blade mounting and associated blade toward and away from said arcuate shaped cutting blade, said base being formed with a curved slot the vertical wall of which is a continuation of the cutting edge of said lower blade.

**2,391,599**
**REFRACTOMETER**
**Martin Silge, Oakland, Calif.**
**Application February 24, 1945, Serial No. 579,519**
**2 Claims. (Cl. 88—14)**



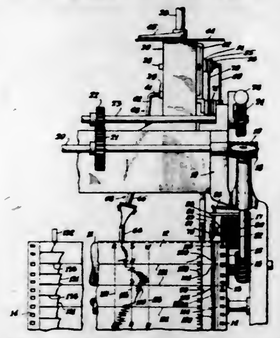
2. A refractometer comprising a rigid housing, a series of spaced scales of consecutive values mounted in a limited field in said housing, a refracting means rigidly mounted in the housing in operative relation to the scales for refracting rays passing through samples under observation in accordance with the refractive indices of the samples, the refracting means comprising an index prism having a rear face and a plurality of reflectors mounted with respect to the said rear face at different angularities for splitting the total range of rays emanating from the rear face into a series of sub-ranges of consecutive sample index values corresponding to the scale values and for directing the sub-ranges toward the corresponding scales, and rigid means interposed between the refracting means and the scales for rendering the sub-ranges of refracted rays readable on the scales of corresponding measuring values whereby the refractometer is made to selectively register the index value of any sample within the total range on one of the scales, without requiring mechanical adjustment.

**2,391,600**
**STOKER APPARATUS**
**Earll B. Stone, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 6, 1944, Serial No. 552,874**
**6 Claims. (Cl. 110—38)**



1. In a stoker, a plurality of grate bars of inverted-V type disposed in side-by-side relation and providing a pair of fuel-supporting surfaces inclined downwardly in opposite directions from a central apex, a number of said grate bars being reciprocable and interspersed among the remaining bars, which are stationary; means providing a pivotal joint at the apex of each of said reciprocatory bars; supporting means on which the outer ends of the bars are adapted to rest with the reciprocable bars slidable thereon; and means supporting the reciprocable bars intermediate their ends and adapted to transmit motion thereto having both horizontal and vertical components.

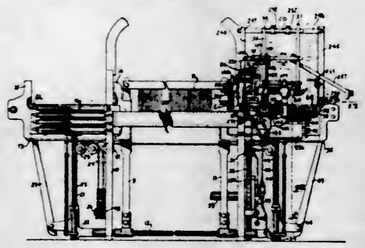
**2,391,601**
**WIND RECORDING APPARATUS**
**Meyer D. Thomas and James O. Ivie, Salt Lake City, Utah, assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**Application September 21, 1943, Serial No. 503,212**
**7 Claims. (Cl. 73—189)**



1. An apparatus for use with a record producing instrument for recording concentration of $SO_2$ in the atmosphere having means for supporting a record strip, means for moving said strip at a predetermined speed, means for recording $SO_2$ concentration, and a meter for measuring the amount of air tested which apparatus comprises a wind vane mounted for rotation, a first marking device to engage said strip and operative in response to the movement of said wind vane in either of its two 180° arcs of rotation about its axis of rotation, a second marking device to engage said strip and operative in response to rotation of said wind vane to record in which of the two said arcs said wind vane is operating at any given time, and means including an electromagnet connected with said meter to cause said second marking device also to record the amount of air measured by said meter.

---

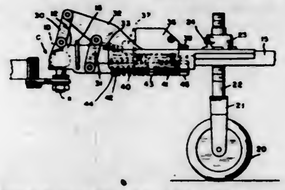
**2,391,602**
**CONVERTIBLE WEFT REPLENISHING LOOM**
**Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Original application July 21, 1941, Serial No. 403,326, now Patent No. 2,360,529, dated October 17, 1944. Divided and this application June 3, 1944, Serial No. 538,604**
**5 Claims. (Cl. 139—232)**



3. In supporting structure for the reserve bobbin magazine of a weft replenishing loom having a lay to hold a shuttle box either in low active position or in high inactive position, the loom having provision for supporting the magazine in low or high position to effect replenishing operations with respect to the shuttle box in low active or high inactive position, respectively, a magazine supporting member on the loom frame adjacent to the upper part of the magazine, and connections between and movable relatively to the member and magazine to assist in holding the magazine in proper position for a replenishing operation whether the magazine be in low or high position.

---

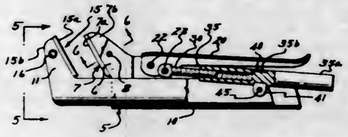
**2,391,603**
**SURGE BRAKE FOR TRAILERS**
**Carl J. Wagner, Detroit, Mich.**
**Application February 7, 1944, Serial No. 521,403**
**9 Claims. (Cl. 188—142)**



1. A device of the class described comprising a structural draft member attachable to a trailer, and two relatively movable elements carried by said draft member, one being a pivotally mounted coupler head, and the other being a slidable brake operating member normally spaced from and actuable by said coupler head.

---

**2,391,604**
**CLAMP**
**Frank C. Wallace, North Hollywood, Calif., assignor to Herman H. Helbush, Los Angeles, Calif.**
**Application November 20, 1944, Serial No. 564,327**
**5 Claims. (Cl. 81—88)**



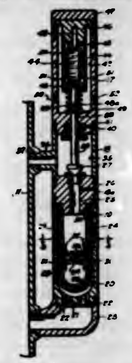
1. A clamp comprising a body presenting a laterally disposed jaw portion, a clamping element having an elongated portion longitudinally slidably mounted in the body and a lateral jaw portion disposed opposite the first-mentioned jaw portion, a lever pivotally secured at one end to the body, a screw pivotally secured to the lever, and a nut pivotally and rotatably carried by the clamping element, said nut threadedly engaging the screw.

---

**2,391,605**
**WELL FLOW DEVICE**
**Robert O. Walton, Dallas, Tex., assignor to Merla Tool Corporation, Dallas, Tex., a corporation of Texas**
**Application October 21, 1944, Serial No. 559,710**
**11 Claims. (Cl. 103—233)**

1. A flow device including, a well tubing, a housing adapted to be connected in said well tubing and having a flow passage for establishing communication between the exterior and interior of the well tubing, a main valve element for controlling the flow through said passage, said element comprising a hollow member constructed of a yieldable material and having its interior and exterior exposed to the pressure exteriorly of the tubing whereby the external and internal pressures acting on the element are equalized,





said equalization permitting said member to assume a normal expanded position to close flow through the flow passage, and means for releasing the pressure acting on the interior of said element, whereby the external pressure may distort said element to an open position to allow flow through the passage and into the tubing.

---

**2,391,606**
**SAFETY RAZOR**
**Rollin C. Warner, New York, N. Y.**
**Application December 26, 1944, Serial No. 569,706**
**5 Claims. (Cl. 30—68)**

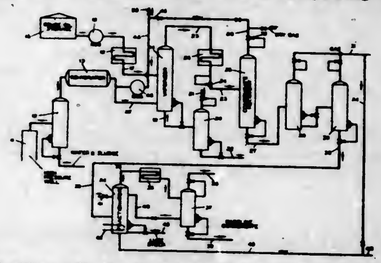


1. A razor comprising a hollow ground razor blade having a tapered opening extending up and down through its back and two tapered openings extending longitudinally through its back inwardly from each end, a guard disposed beneath said blade having a tapered opening aligned with said first named tapered opening, and a handle having a tapered shank frictionally extending through said aligned openings for fixedly supporting said blade and guard.

---

**2,391,607**
**HIGH PRESSURE SEPARATION PROCESS**
**Thomas H. Whaley, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application October 5, 1942, Serial No. 460,860**
**10 Claims. (Cl. 196—88)**

1. The process of separating a substantially asphalt-free lubricating oil stock from a crude oil stock containing same in admixture with asphalt which comprises contacting said crude oil stock with a light hydrocarbon gas in an amount in excess of the amount soluble in said crude oil stock, at a pressure above about 1000 pounds per square inch and within the vapor-liquid two-phase region of the resulting mixture, and at a temperature within the range of from about 0 to 600° F. and within the vapor-liquid two-phase region of said mixture, thereby effecting vaporization of a portion of the normally liquid components of said crude oil stock comprising lu-



bricating oil stock substantially free from asphalt; removing vaporous effluent from said contacting step; reducing the pressure on said effluent to a pressure within its vapor-liquid two-phase region and above about 800 pounds per square inch; and recovering at least a portion of the normally liquid hydrocarbons comprising lubricating oil stock from said vaporous effluent at said reduced pressure.

---

**2,391,608**
**DEVICE FOR PARKING AIRPLANES**
**Floyd R. Wood, Carter Lake, Iowa**
**Application August 7, 1944, Serial No. 548,355**
**3 Claims. (Cl. 280—47)**



1. A device for use in parking an airplane, comprising an elongated tongue, a collar slidably disposed on said tongue adjacent one end thereof, a transversely disposed spacing bar having a medial portion secured to the other end of said tongue, a sleeve slidably disposed on said tongue between said bar and collar, said sleeve having two portions disposed outwardly therefrom in opposite directions, said portions each being provided with an aperture, a finger pivotally attached to each end of said spacing bar, ends of said fingers being respectively disposed through said apertures, the other ends of said fingers being provided with cooperative openings for respectively receiving therein oppositely disposed axle portions of the tail wheel of said airplane, a lever pivotally attached to said collar and having a cam portion arranged to engage said tongue, a spring between said lever and collar for normally urging said cam into an engagement with said tongue, and a reach-rod having its ends respectively attached to said sleeve and collar.

---

**2,391,609**
**OIL WELL SCREEN**
**Kenneth A. Wright, Los Angeles, Calif.**
**Application May 27, 1944, Serial No. 537,550**
**15 Claims. (Cl. 166—6)**

1. A holder for screening material applicable to the wall of a tubular well part including two

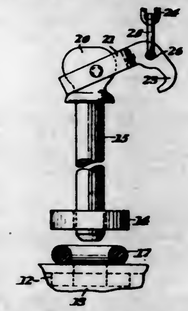
sheet metal parts, one a cupped body, and the other a cover secured over the body, the parts having apertures to pass fluid and one of said



parts having a filling opening, there being a tongue formed on one part at the opening to be deflected to close the opening.

---

**2,391,610**
**SAFETY LOCKING LEVER FOR COUPLING PINS**
**Miles Altimus, Nanty Glo, Pa., assignor to Irwin Foundry & Mine Car Company, Irwin, Pa., a corporation of Pennsylvania**
**Application April 27, 1944, Serial No. 533,089**
**1 Claim. (Cl. 213—188)**

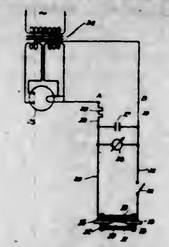


In a safety lock for a car-coupling pin, a lever pivoted to the head of the pin, said lever having one end adapted to engage under a member secured to the car, and a tail end projecting beyond the pivot adapted to engage the pin and prevent further angular movement of the lever after sufficient tilting thereof to cause said one end to clear said member, said one end of the lever being of hook shape and said tail end being bifurcated and straddling the head of the pin.

---

**2,391,611**
**ILLUMINATING ARRANGEMENT**
**Franz G. Back, New York, N. Y., assignor to Gastro-Photor Laboratories Corp., a corporation of New York**
**Application June 27, 1944, Serial No. 542,282**
**2 Claims. (Cl. 315—353)**

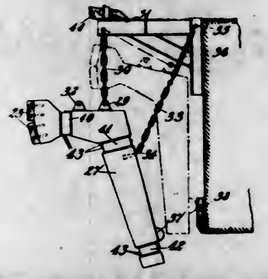
2. An illuminating device for taking color photographs of cavities of the body comprising in combination, a source of alternating current, a step-up transformer combined with electric rectifying means and connected with said source of alternating current, a dry electrolytic condenser connected to said combined step-up transformer and rectifying means by two connections, an electric resistor included in one of said connections between said dry electrolytic condenser and said combined step-up transformer and rectifying means, a vaporizable metallic filament the ends of which are connected with said dry electrolytic condenser, means for prolonging the discharge period of said dry electrolytic condenser included in one of the connections between said



dry electrolytic condenser and one end of said vaporizable metallic filament, and a switch included in one of the connections between said dry electrolytic condenser and one end of said vaporizable metallic filament enabling discharge of said dry electrolytic condenser through said metallic filament and vaporization of the same.

---

**2,391,612**
**JETTY, WHARF, AND LIKE BERTHING PLACE FOR VESSELS**
**Arthur Lemprière Lancey Baker, Sevenoaks, England**
**Application November 15, 1944, Serial No. 563,611**
**In Great Britain February 1, 1943**
**4 Claims. (Cl. 61—48)**



1. A berthing place having at least one side against which vessels may be berthed, comprising a plurality of rigid fender elements, articulated means suspending each of the fender elements from the berthing place so that the fender elements may be moved by the pressure exerted against them by a vessel in berthing in an inward and simultaneously in an upward direction in opposition to the action of gravity.

---

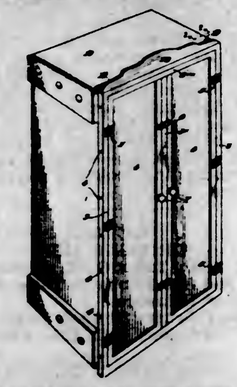
**2,391,613**
**PROCESS OF COLORING WOOD**
**Crayton K. Black, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application June 15, 1942, Serial No. 499,875**
**2 Claims. (Cl. 8—6.5)**

1. The process of coloring an object of wood throughout interior portions thereof which comprises immersing the object in an alkaline solution having a pH value not higher than about 11.4 and containing a stabilized diazotized arylamine and an azo pigment coupling component, said amine and said coupling component being devoid of solubilizing groups and said solution being heated to a temperature between about 63° C. and about 93° C., applying pressure to said liquid until the interior portions of the wood are impregnated with the solution, and thereafter impregnating the interior portions of the wood with an acid until the diazotized arylamine therein is regenerated and a colored substance is formed.



---

**2,391,614**
**COLLAPSIBLE WARDROBE CABINET**
**Irving Bleckman, New York, N. Y.**
**Application August 18, 1942, Serial No. 455,188**
**2 Claims. (Cl. 312—144)**



1. A collapsible cabinet comprising: a cardboard material folded to form a body member composed of a rear wall and side walls; a front frame; top and bottom members of cardboard extending beyond the side walls, each formed with integral flanges for overlapping the side walls and the rear wall; each of said side walls and the adjacent flanges of the top and bottom members having a reinforcing bar, adjacent bars being dovetail shaped and channelled respectively for interfitting and sliding engagement with each other.

---

**2,391,615**
**METHOD OF MAKING HEAT INTERCHANGE APPARATUS**
**Joseph Victor Caron, Haverhill, Mass.**
**Application August 25, 1942, Serial No. 455,985**
**3 Claims. (Cl. 22—193)**



1. In a method of manufacturing a finned body with the aid of a molding flask having a drag and a cope; the steps of constructing a plurality of semi-circular fin halves; forming a green sand mold section in said drag with half the number of said fin halves embedded in said mold section and projecting into the mold cavity; forming a second green sand mold section in said cope with the remainder of said fin halves embedded in this mold section and projecting into the mold cavity; assembling said green sand mold sections, with the fin halves held by one section in end-to-end abutting relation with the fin halves held by the other section; pouring molten metal into the complete fin-holding mold; and removing said mold, leaving the cast body with attached fins.

---

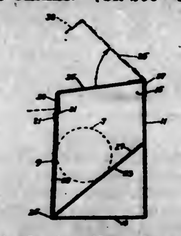
**2,391,616**
**FOG PRODUCING DEVICE**
**Herbert W. Causer, Weymouth, Mass., assignor to Factory Mutual Research Corporation, Boston, Mass., a corporation of Massachusetts**
**Application October 21, 1943, Serial No. 507,968**
**7 Claims. (Cl. 299—121)**



1. A fog device for use with a water jet to produce a conical stream of fog, comprising a flaring baffle having a plurality of radial fingers with slots therebetween of approximately uniform width extending from its larger end toward its smaller end and openings between the bottoms of the slots and said smaller end, said fingers extending away from said smaller end and throughout their extent having their center lines divergent relative to one another.

---

**2,391,617**
**DISPENSING RECEPTACLE**
**Earl R. Crebbs, San Francisco, Calif.**
**Application March 23, 1943, Serial No. 480,258**
**6 Claims. (Cl. 206—58)**



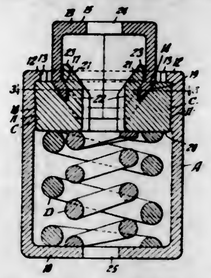
1. A receptacle for the dispensing of tissues or the like from a roll, comprising a front wall, a rear wall, said front wall sloping toward the rear wall at a slight angle to the vertical, and an inclined surface between said front and rear wall forming an acute angle with the inner surface of said front wall.

---

**2,391,618**
**FRICTION SHOCK ABSORBER**
**George E. Death, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application October 22, 1942, Serial No. 462,339**
**6 Claims. (Cl. 267—9)**

1. In a friction shock absorbing mechanism, the combination with a friction casing having interior friction surfaces; of a hollow central wedge pressure transmitting member having side walls

provided with shoulders on the inner sides thereof; friction shoes interposed between the wedge and friction surfaces of the casing, said shoes having shouldered engagement with the casing



to limit outward movement of the shoes; laterally, outwardly projecting lugs on the shoes engaging the shoulders of the wedge to limit outward movement of the wedge; and spring means opposing inward movement of the shoes.

---

2,391,619

## METHOD OF FORMING COMPOSITE MATERIALS

Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application August 1, 1940, Serial No. 349,235
6 Claims. (Cl. 117—65)

1. A process for coating paper which comprises bringing only an extended surface of the paper in brief contact with a solution of a vinyl resin in a solvent therefor, drying the coated paper, and improving the adhesion of the coating to the paper and increasing its gloss, depth and brilliance; its resistance to abrasion; and its resistance to moisture, oils, fats, alkalies and acids by subjecting the coated paper to a baking operation in an enclosed space at temperatures between about 375° F. and 410° F. for a period not exceeding about 20 seconds and forming a film substantially consisting of the vinyl resin in a thickness of from about 0.0001 to 0.002 inch on the paper.

---

2,391,620

## MOISTUREPROOFING PAPER

Richard W. Quarles, Pittsburgh, Pa., and Arthur K. Doolittle, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application June 20, 1941, Serial No. 398,914
8 Claims. (Cl. 117—103)

1. A process of moistureproofing paper which comprises forming on the surface of the paper a non-homogeneous deposit of a resinous vinyl polymer formed predominantly from vinyl chloride, and a wax incompatible therewith, the vinyl polymer being applied from solution in an organic solvent which is a non-solvent for the wax, and the amount of wax being very small relative to the weight of the paper and being between 2% and 10% by weight of the vinyl polymer, and effecting a strong adhesion of the composite coating while maintaining its non-homogeneous nature by baking the coated paper at temperatures of about 375° to 400° F. for a period not exceeding about 120 seconds, whereby a clear and non-tacky composite film of wax and vinyl polymer is formed on the paper.

2,391,621

## METHOD OF COATING PAPER

George M. Powell, III, South Charleston, and William H. McKnight, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application September 17, 1943, Serial No. 502,816
1 Claim. (Cl. 117—65)

Process for coating paper which comprises dispersing a copolymer of vinyl chloride 86%, vinyl acetate 13%, maleic acid 1%, a copolymer of vinyl chloride 87% and vinyl acetate 13%, and a paraffin wax, in a mixture of methyl ethyl ketone, methyl isobutyl ketone and hydrogenated petroleum naphtha, the ratio of ketones to naphtha being about 2.3 to 1, the ratio of the two copolymers being 1 to 2 and 2 to 1, and the proportions of wax being from 10 to 25% of the two copolymers combined, heating the dispersion to a temperature above the melting point of the wax, cooling and agitating the dispersion to form a finely-divided solid suspension of the wax in the fluid resin dispersion, forming a thin wax-containing film of said copolymer on the surface of the paper, baking the paper at a temperature of 225° to 275° F., and forming an adherent, glossy, abrasion and moisture resistant coating on the paper.

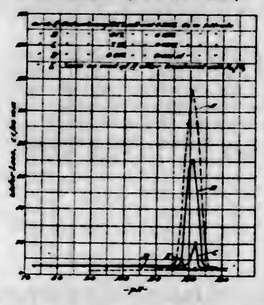
---

2,391,622

## DRILLING MUD

Thomas H. Dunn, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application February 29, 1944, Serial No. 524,453
10 Claims. (Cl. 252—8.5)



1. A compounded aqueous drilling mud having a pH value of at least 10 and suitable for use in brine-producing wells comprising an aqueous drilling mud, starch, and a basic substance capable of reacting with calcium ions to form an insoluble salt, said basic substance being added in an amount sufficient to react with a substantial portion of the calcium ions which are encountered during drilling whereby excessive water loss is overcome.

---

2,391,623

## BLADED ROTOR

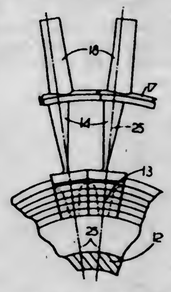
Fritz Albert Max Heppner, Leamington Spa, England, assignor to Armstrong Siddeley Motors Limited, Coventry, England

Application August 11, 1944, Serial No. 549,038
In Great Britain December 8, 1943
4 Claims. (Cl. 230—134)

1. A rotor having a peripheral row of blades, said blades carrying at their outer ends shrouds



which form a ring and are interlocked against relative radial and lateral movement, an outer row of blades carried externally by said shrouds, the shrouds being offset in a circumferential



direction relatively to the associated blades of the inner row so as to reduce the maximum deflection in a shroud due to centrifugal action to a value lower than if the shrouds were central with respect to the associated blades of the inner row.

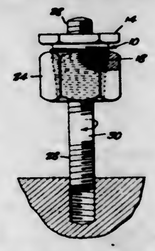
---

2,391,624

## STUD BOLT RETRACTOR AND DRIVE

Ernest Heuer, Vallejo, Calif.

Application October 7, 1943, Serial No. 505,339
1 Claim. (Cl. 81—53)



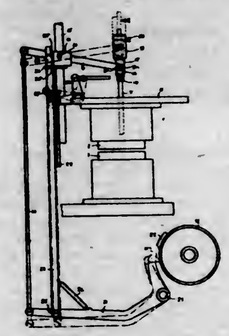
A stud bolt applying and removing device, comprising jaws cooperating with each other to form a gripper externally tapered towards one end and externally threaded, the external threads of said jaws being pitched in a direction opposite to the pitch of threads of a stud bolt to be turned, a nut having a tapered bore for accommodating said gripper, said nut being internally threaded and screwed upon the gripper from the small end thereof for urging the jaws towards each other and binding the jaws about the stud bolt, said jaws being formed at their inner sides with opposed longitudinally extending transversely arcuate grooves cooperating to form a bore for receiving the stud bolt, each jaw having flat inner side faces at opposite sides of its groove, the grooves each having its wall transversely arcuate less than 180° to space the inner sides of the jaws from each other when the jaws are disposed about a stud bolt, said jaws having outstanding laterally extending flanges at the large end of the gripper for engagement by a wrench for holding the jaws stationary while tightening the nut, and ribs for gripping the stud bolt extending longitudinally of walls of the grooves, the ribs of each jaw being pitched transversely of the jaw in a direction opposite to the pitch of the ribs of the other jaw.

2,391,625

## CIRCULAR KNITTING MACHINE

Henry Harold Holmes, Leicester, England, assignor to Wildt and Company Limited, Leicester, England, a British company

Application October 3, 1944, Serial No. 556,955
In Great Britain October 11, 1943
13 Claims. (Cl. 66—150)



1. In a circular knitting machine adapted to produce pouches in knitted fabric, in combination, at least one needle cylinder, a device for applying auxiliary tension to the work in order to compensate for the presence of a pouch, a movable member for supporting said tensioning device, means for automatically operating and controlling the said supporting member whereby the tensioning device can be automatically brought into engagement with the work, moved axially of the needle cylinder for the purpose of applying the desired auxiliary tension and automatically returned to the normal inoperative position after completion of a pouch, said auxiliary fabric tensioning means, moreover, being arranged to enable the tensioning device to be restored to its normal inoperative position at any stage of its operative movement, and means adapted to retain the said device in this position and to be operated to release the latter when again required for use.

---

2,391,626

## TIRE TOOL

Burton W. Howard, deceased, late of Aguanga, Calif., by Ruby L. Howard, administratrix, Aguanga, Calif.

Application December 15, 1943, Serial No. 514,415
1 Claim. (Cl. 157—6)



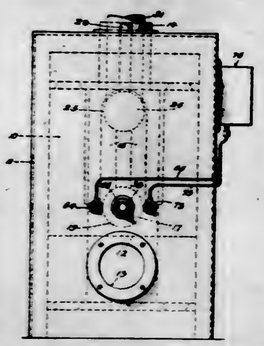
A tire tool including a handle, a shank reversibly mounted adjacent one end of the handle and extended at an angle to said handle, a tire bead engaging blade at one end of the shank positioned in a plane extending transversely of the handle, and a wheel rim engaging cam surface extended along curved lines from one face of the blade to one side of the shank, and means for anchoring the handle for pivotal movement to a wheel, said means being located adjacent to the cam side of the blade.

2,391,627
**TRANSDUCER**
Arthur S. Howell, Rochester, N. Y., assignor to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application January 19, 1944, Serial No. 518,073
9 Claims. (Cl. 179—119)



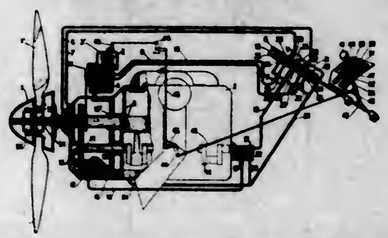
1. In a transducer unit, a frame of ferromagnetic material having spaced upstanding pole pieces struck up therefrom, a pair of permanent magnets of high coercive material contacting said frame in the region of said pole pieces, a top plate of ferromagnetic material, spaced pole pieces on said plate, means for mounting said plate in fixed relation to said frame to contact said magnets, with the free ends of the pole pieces thereon extending toward the free ends of the pole pieces on said frame, a coil mounted between said plate and said frame adjacent said pole pieces, a reed of ferromagnetic material having one end fixedly mounted and having its other end portion extending into the field of influence of said pole pieces as well as of said coil, and means including a diaphragm connected to the last mentioned end portion of said reed whereby said unit can translate sound into electrical energy and vice versa.

2,391,628
**STEAM GENERATOR**
Thad C. Johnson, Clinton, S. C.
Application April 20, 1944, Serial No. 531,944
10 Claims. (Cl. 122—448)



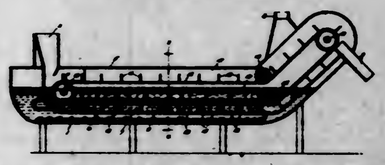
7. In a steam generator, a casing, a boiler element arranged within the casing, a nozzle for spraying water into the boiler element, a device for heating the boiler element, means for supplying water to the nozzle and having its operation automatically stopped when the temperature of the boiler element is reduced so that it will not substantially instantaneously vaporize the water, and means for operating the heating device and having its operation automatically stopped when the temperature of the boiler element reaches or passes a high danger point.

2,391,629
**VARIABLE-PITCH PROPELLER**
Curt Keller, Zurich, Switzerland, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland, a corporation of Switzerland
Application March 30, 1942, Serial No. 435,577
In Switzerland June 30/July 5, 1941
10 Claims. (Cl. 170—135.6)



1. The combination of an engine; a variable pitch propeller driven thereby; a motor for adjusting the pitch of said propeller; means for supplying pressure fluid for actuating said motor; a governor responsive to engine speed and capable of controlling said motor by admitting and exhausting pressure fluid to and from the same; an energy input controller for said engine; a valve having feathering and braking positions in which respectively it establishes connections for operating said motor in opposite directions and disconnects the governor from the motor, and a governing position in which it connects the governor in controlling relation with the motor; an actuator for said valve and said energy input controller; guide means for said actuator permitting motion thereof to vary energy input in three similar ranges entailing respectively the feathering, governing and braking positions of the valve; and means associated with the guide means serving to limit shift from the governing range to other ranges to a path entailing idling conditions for the engine and to prevent return to the governing range while the engine is idling.

2,391,630
**LYE PEELER**
Louis R. Kibler, Baltimore, Md., assignor to A. K. Robins & Company, Inc., Baltimore, Md., a corporation of Maryland
Application January 11, 1944, Serial No. 517,856
3 Claims. (Cl. 146—47)



1. Lye peeler comprising a tank, a trough mounted longitudinally therein spaced from the bottom and sides of said tank and positioned below the desired liquid level, having perforations in the sides and bottom throughout its submerged extent, an endless conveyor arranged longitudinally in said tank having the lower flight constituting a cover for said trough, transverse vanes carried at spaced intervals by said conveyor forming longitudinally movable partitions in said trough defining compartments in



communication through said perforations with the body of liquid outside of said trough throughout the submerged portion of the path of travel of said compartments, means at one end of said tank for feeding potatoes to said conveyor, means remote from said feeding means permitting discharge of potatoes from said trough and tank, and heating means arranged along the sides of said tank outside of said trough.

2,391,631
**COMPOSITIONS AND PROCESSES**
Richard W. Kingerley, Jr., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 5, 1943, Serial No. 476,114
5 Claims. (Cl. 252—33.4)

1. A lubricant for use in the cold rolling of steel comprising a major amount of mineral oil, from about 0.2 to 0.5 percent sulfonated castor oil, 0.5 to 2.0 percent tricresyl phosphate, and from about 0.05 to 0.3 percent of lorol phosphate.

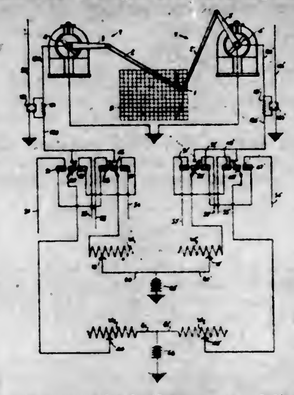
2,391,632
**UNION**
Frank H. Knight, Cranston, R. I., and Roy Thomas Watts, New York, N. Y.; said Watts assignor to said Knight
Application January 21, 1944, Serial No. 519,160
6 Claims. (Cl. 285—120)



1. A union for use in coupling together conduits comprising a pair of sleeves formed of conventional tube stock, a pair of collars of tube stock of larger diameter than said sleeves and each attached in coaxial relation to one of said sleeves, one of said collars being externally threaded, and a coupling member engaging said other collar and threadingly engaging the externally threaded collar.

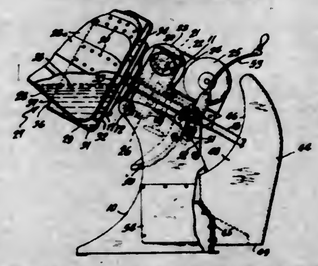
2,391,633
**AUTOMATICALLY OPERATED OBJECT-LOCATING SYSTEM**
Arthur Korn, Hoboken, N. J., and Joseph W. Hess and Simeon L. Rankin, New York, N. Y.
Application May 25, 1943, Serial No. 488,394
5 Claims. (Cl. 177—386)

1. An automatically operated object-locating system by means of supersonic waves, which includes transmitters for sending supersonic waves located at two spaced points for the observation of the wave reflecting object to be located, two spaced means at said points for receiving echo waves from the object, electric circuits controlled by said receiving means, variable resistances controlled by said electric circuits to alter said resistances proportionally to the time taken by the waves to go from the transmitters to the wave reflecting object and back, a telautograph with a stylus and electric apparatus governing said stylus, electric circuits controlled by said resistances to operate the elements of the telautograph separately and in accordance with the respective distances from the two spaced observation points to the wave reflecting object, and a plate carry-



ing a surface on which the course of the moving object is recorded by said telautograph.

2,391,634
**WASHING BARREL**
Arthur J. Lewis, Stratford, and Leslie W. Barnes, Long Hill, Conn., assignors to The Baird Machine Company, Stratford, Conn., a corporation of Connecticut
Application January 12, 1942, Serial No. 426,464
14 Claims. (Cl. 51—164)



4. A washing barrel comprising a rotatable receptacle to hold the articles to be treated and liquid for treating the articles, a conduit for conducting liquid from the receptacle arranged with its inlet above the normal level of the liquid in the receptacle at all times during the treating operation, a bucket extending radially from said inlet in a direction laterally from the axis of rotation and arranged with its open side facing in a direction transversely of the axis of rotation so that when the receptacle is rotating in one direction the bucket will collect the liquid and conduct it to said inlet and when the receptacle is rotating in the opposite direction is inoperative to collect the liquid, and means for rotating the receptacle in opposite directions.

2,391,635
**EARRING**
Louis C. Mark, Cranston, R. I.
Application January 29, 1943, Serial No. 472,995
1 Claim. (Cl. 63—14)

An earring comprising an ornamental portion having a loop, a pivot pin extending through said loop, a pivot member having ears pivoted on said pin, the free end of said pivot member being en-

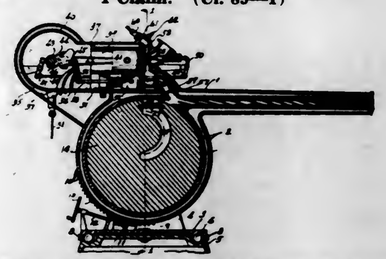
gularly bent, and a spring tongue positioned over said pivot member, said spring tongue having a reentrantly bent end pinched over the angu-



larly bent end of said pivot member, and said spring tongue having a shank portion bearing against the loop portion to provide a resilient snap action.

---

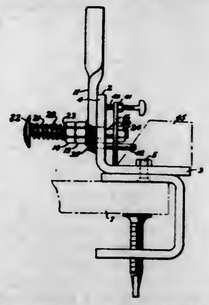
**2,391,636**
**GUN**
**Graham S. McArthur, Portland, Oreg.**
**Substituted for abandoned application Serial No. 467,312, November 30, 1942. This application March 20, 1944, Serial No. 527,236**
**1 Claim. (Cl. 89—1)**



A gun comprising a cylindrical housing in open communication with a gun barrel, a rotor mounted within the housing, means for continuously rotating the rotor, the bore of said gun barrel being tangential to the periphery of the rotor, said rotor having an axial inlet and a peripheral outlet for the passage of projectiles therethrough, means at said outlet for intermittently releasing the projectiles to be thrown forwardly through the gun barrel by the centrifugal force of the rotor, a pressure generator in timed intermittent communication with the gun barrel and adapted to direct pressure behind the projectile immediately upon its entrance into the gun barrel.

---

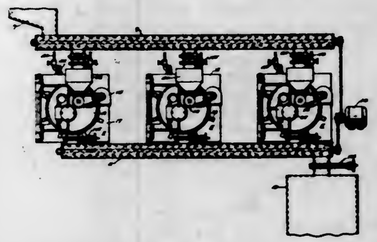
**2,391,637**
**RIVET CUTTER**
**Norman S. McEwen, Fort Lauderdale, Fla.**
**Application November 30, 1944, Serial No. 565,965**
**8 Claims. (Cl. 164—41)**



1. In a rivet cutter the combination of a work support provided with an aperture to receive a rivet; a plunger reciprocally mounted in said support; a stripper plate carried by said plunger and disposed on one side of said support; and a cutter pivotally mounted on said plunger and disposed on the opposite side of said support.

---

**2,391,638**
**APPARATUS FOR MAKING PELLETS**
**Edgar T. Meakin, San Francisco, Calif.**
**Application June 8, 1942, Serial No. 446,309**
**14 Claims. (Cl. 18—12)**



11. Apparatus for the pelleting of material normally susceptible to spontaneous combustion or otherwise readily combinable with oxygen, comprising a housing having a door hingedly mounted thereon and adapted in its closed position to be sealed to said housing; an extrusion chamber in said housing including a cylindrical die; means sealed in a wall of said housing and supporting said die; an extrusion roller in said extrusion chamber; means sealed in the door of said extrusion chamber and supporting said roller in cooperative relationship with said die; said cylindrical die and said extrusion roller being rotatable relative to each other; a supply chamber for receiving material in condition for pelleting; a hopper having a screw type feeder associated with the discharge end thereof, said hopper being mounted on said housing door with said feeder extending through said door in sealing engagement therewith; said supply chamber being connected to said hopper by a horizontal air-tight connecting passage, said passage including therein a screw type feeder; a screw type conveyor disposed below said die and extending out of said housing in an air-tight passage leading therefrom; a discharge receptacle in sealed connection to the discharge end of said last mentioned conveyor; a plurality of manually controllable cut-off gates sealed to the atmosphere, one disposed between said supply chamber feeder and said hopper to seal off the flow of material to said hopper, another disposed between said die and said last mentioned conveyor, and another disposed between said last mentioned conveyor and said discharge receptacle; and means permitting introduction of a gas into the interior of said apparatus.

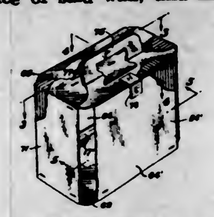
---

**2,391,639**
**CONTAINER**
**Reginald Meller, Oakland, Calif.**
**Application November 12, 1940, Serial No. 365,162**
**8 Claims. (Cl. 229—23)**

1. A container including a wall, a pair of tabs resiliently hinged to said wall adjacent opposite edges thereof and extending inwardly of said container toward each other and maintained



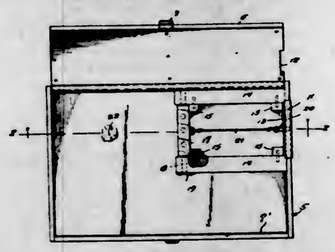
with portions thereof in spaced relation to the inner surface of said wall, and means bulging



said tabs to provide a pressure cushion for the contents of said container.

---

**2,391,640**
**TRAP**
**Victor L. Nemec, Lewistown, Mont.**
**Application February 24, 1944, Serial No. 523,710**
**1 Claim. (Cl. 43—61)**



In a trap, a box including an entrance in one wall thereof and a hinged cover, a non-destructible lining for the box and its cover, a runway formed in the box leading away from the entrance, means in the interior of the box for supporting bait adjacent to the inner end of the runway, a gate hingedly mounted for controlling the inner end of the runway to the interior of the box, a guard plate at the other end of the runway and having an opening matching the entrance and a hook shaped portion to engage over the upper edge of said wall of the box, said cover having a notch to receive the hook shaped end of the guard plate, a slidably mounted trap door having sliding contact with the guard plate and provided with an opening, said guard plate having an opening, a pin to enter the opening of the door and the second named opening of the guard plate for holding the door in an elevated position, a flexible element connecting the pin to the gate to withdraw the pin from the door on the movement of the gate under the influence of an animal endeavoring to reach the bait within the box.

---

**2,391,641**
**PANTIE**
**Mildred Agnes O'Hern, Chicago, Ill.**
**Application October 5, 1943, Serial No. 505,046**
**1 Claim. (Cl. 2—224)**

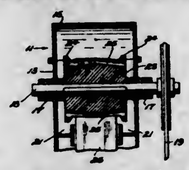
A bifurcated type "full fashioned" pantie adapted to be worn by little girls and expressly designed and shaped to conform with requisite nicety and comfort to the wearer's childish figure, the same characterized by a body portion to snugly embrace the abdomen, small of the back and undeveloped hips, an uplifted central crotch portion, and short tubular legs depending below said crotch portion, said pantie comprising superimposed back and front inelastic fabric sections having inturned interconnected longitudinal edge seams, the upper edges of said sections being of curvate form and the crown region of the front section extending to a plane above the crown region of the back section, the outer ends of said curvate edges receding and converging and merging into the upper ends of said seams, a pair of closely related elastic strands fastened to said



curvate edges and tensioning and gathering same, circumferentially arranged elastic strands mounted and fastened in said legs and gathering same, and other complemental strands mounted and fastened in said body portion, the respective body strands having their central front and rear reaches of general V-form in order to impose the desired upward lifting stresses, whereby to yieldingly retain the garment in place while affording unrestricted wearing facilities.

---

**2,391,642**
**PULLEY STRUCTURE FOR BELT-TYPE LIQUID ELEVATORS**
**Jesse C. Reed, Dayton, Ohio**
**Application March 21, 1945, Serial No. 584,018**
**5 Claims. (Cl. 103—72)**



1. Belt-type liquid-elevating apparatus comprising a casing having a liquid outlet, a belt-receiving and driving pulley rotatably mounted in said casing contiguous to said outlet, said pulley having its annular belt-contacting surfaces formed with spaced longitudinally extending liquid-receiving grooves, the latter opening to the sides of the pulley, an endless liquid-elevating and discharging belt passing around said pulley and depending therefrom into a body of liquid to be elevated, and troughs formed with the side walls of said casing below said pulley for receiving liquid discharged from said grooves and conducting the same to said outlet.

---

**2,391,643**
**SELF-LOCKING NUT**
**Frederick R. Reutter, Waterbury, Conn., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y., a corporation of New York**
**Application July 16, 1943, Serial No. 494,993**
**2 Claims. (Cl. 151—7)**

1. A self-locking nut comprising in combination a metal casing having a base provided with an aperture and side members so arranged that

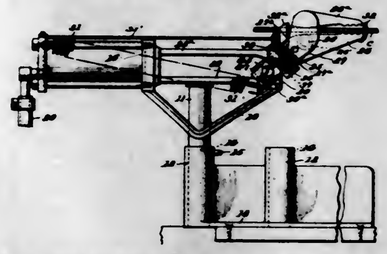
the casing is polygonal in transverse cross-section, certain of said side members being provided with bendable extensions adapted to hold parts within the casing, a polygonal nut member positioned within the casing and having its sides shaped so as snugly to fit the side members of the casing, and a polygonal locking member positioned within the casing in contact with said nut member and snugly fitting the side member



of said casing, said extensions projecting over said locking member to hold said nut member and locking member in said casing and said casing being substantially arcuately convex from near the junction plane of the nut member and one locking member face over the remaining locking member face whereby a socket wrench must extend over that portion of the casing enclosing said nut member in order to have the socket fit the casing.

---

2,391,644
KNOT TIGHTENING DEVICE
John E. Schmidt, Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application April 19, 1944, Serial No. 531,813
13 Claims. (Cl. 254—51)

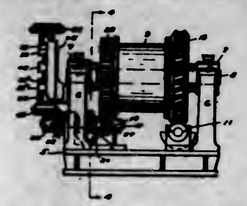


1. A knot-tightening device of the character described comprising a supporting frame, a movable member reciprocatively supported by said frame, a fixed jaw connected to and movable with said movable member, a lever pivotally connected with the fixed jaw and having at one end a jaw member complemental to said fixed jaw, the other end of the lever being free for arcuate movement with respect to its pivotal support, a roller mounted in the free end of said lever, means for imparting movements to the movable member in either direction, and a cam track engageable with said roller during travel of the movable member, said cam track having means for holding the lever and said movable jaw in rope-clamping position during said movements.

---

2,391,645
MARINE STEERING APPARATUS
Fred C. Scheen, Roselle Park, N. J., De Witt F. Evans, Queens Village, N. Y., and Fred C. T. Scheen, Elizabeth, N. J.
Application November 27, 1944, Serial No. 565,278
5 Claims. (Cl. 114—144)

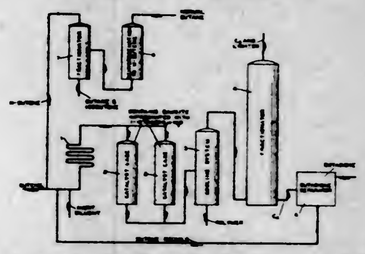
1. In a marine steering apparatus, the combination of a tiller rope drum, a reversible rotary motor operatively connected to said drum for driving the latter, said motor having a rotatable controller operating shaft adapted to be turned in opposite directions to stop or control the direction of operation of the motor, a pilot wheel, means operatively connecting said pilot wheel with the controller operating shaft so as to rotate the latter in a direction corresponding to the direction of operation of the pilot wheel, and further means operatively connected to said



first-named means and driven by the drum for turning the controller operating shaft in a direction reverse to that in which it has just previously been turned by actuation of the pilot wheel, whereby to automatically stop the motor and the drum after the latter has been operated to adjust the rudder to a degree corresponding to the degree of movement imparted to the pilot wheel.

---

2,391,646
PROCESS FOR DEHYDROGENATING OLEFINS
Walter A. Schulze, John C. Hillyer, and Harry E. Drennan, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application February 2, 1942, Serial No. 429,332
4 Claims. (Cl. 260—680)



2. A process for the dehydrogenation of normal aliphatic olefins to produce diolefins which comprises passing said olefins in admixture with sufficient inert diluent to maintain the partial pressure of said olefins below atmospheric pressure into contact at elevated temperatures within the range of about 1100° F. to about 1300° F. and at low superatmospheric pressure with a catalyst comprising a major proportion of bauxite impregnated with minor proportions of magnesium oxide and barium hydroxide.

---

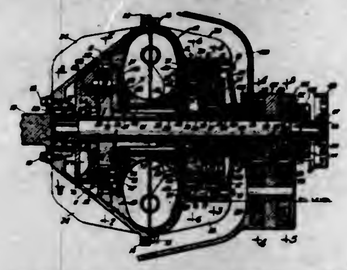
2,391,647
ALKALINE DETERGENTS
Charles Schwartz, Pittsburgh, Pa.
No Drawing. Application December 3, 1942, Serial No. 467,793
6 Claims. (Cl. 252—99)

1. An alkaline detergent composition for cleaning tin, comprising by weight about 60 to 93% alkali-metal metasilicate, about 3 to 20% alkali-metal perborate, about 1 to 10% of a water-soluble salt of zinc and about 1 to 10% of at least one inhibitor of the group consisting of a water-soluble salt of magnesium and an alkali-metal silicate having a ratio of $M_2O$ to $SiO_2$ of not over 1:2, wherein M represents a member of the group consisting of sodium and potassium.



---

2,391,648
AUTOMATIC TRANSMISSION
Frederick W. Seybold, Westfield, N. J.
Application October 27, 1943, Serial No. 506,636
22 Claims. (Cl. 74—189.5)



1. A variable speed transmission comprising in combination, a drive shaft, a driven shaft, a reaction member including first and second sun gears mounted for rotation about the axis of the driven shaft, a fluid pump for locking said member against rotation in one direction, or releasing the same, a first internal gear connected to the drive shaft, and encircling said first sun gear, first planetary gearing meshing with the first sun and internal gears, a hydraulic impeller connected to said first planetary gearing, second planetary gearing attached to the driven shaft and meshing with the second sun gear and a second internal gear, and a hydraulic runner attached to said second internal gear co-operating to form a hydraulic coupling with the impeller of the first planetary gearing.

---

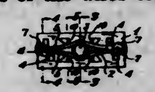
2,391,649
SUGAR REFINING
Ralph W. Shafer, New York, N. Y., assignor to The Dorr Company, a corporation of Delaware
No Drawing. Application November 21, 1941, Serial No. 419,910
4 Claims. (Cl. 127—46)

1. The process of refining raw sugar which comprises treating syrup of raw sugar with a hypochlorite bleaching agent of the non-precipitable kind whereby ash-forming ions are introduced in the syrup, and subjecting the syrup to the action of a cation exchanger material operating in the hydrogen cycle and then to the action of an anion exchanger material operating in the hydroxyl cycle whereby said ash-forming ions are removed from the syrup.

---

2,391,650
RESILIENT FASTENER
John W. Simmons, Cleveland Heights, Ohio
Application April 22, 1942, Serial No. 439,622
10 Claims. (Cl. 85—36)

1. A fastener of general utility comprising a detached sheet metal base member provided with an aperture, cam means rising from said member on opposite sides of its longitudinal axis, and resilient wires arranged upon the base member and attached thereto adjacent their ends, the intermediate portions of the wires constituting jaws



disposed on opposite sides of the axis of the aperture in spaced relation to the base member and between said cam means for engagement therewith.

---

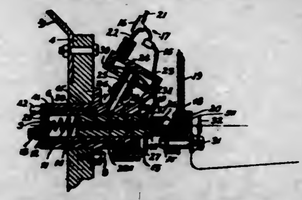
2,391,651
DENTAL COMPACT
Elizabeth E. Smith and Will O. Smith, Pittsburgh, Pa.
Original application July 21, 1943, Serial No. 495,654. Divided and this application January 8, 1945, Serial No. 571,796
3 Claims. (Cl. 132—84)



2. The combination in a dental compact, of an elongated casing, a hollow block slidable in the casing, a receptacle for a dentifrice received in the block, said block having parallel, spaced, upstanding edge flanges, a toothbrush having bristles and a shank pivotally mounted in and between the flanges, to be moved to an open position extending out from one end of the block and casing, and to a closed position with the shank lying between the flanges and on top with the bristles overhanging an end of the block and the end of the dentifrice container, and means for preventing displacement of the dentifrice receptacle.

---

2,391,652
TIRE INFLATING DEVICE
George E. Stevenson, Coquille, Oreg.
Application February 17, 1941, Serial No. 379,324
3 Claims. (Cl. 152—421)



2. In an automobile, the combination with an axle having a wheel mounted thereon, said wheel including a hub having a flange provided with an opening, a pump cylinder removably fitted in and projecting through said opening parallel with and adjacent said axle, means to removably secure the pump cylinder to the hub flange, a piston operatively arranged in said pump cylinder, a fixed brake backing plate arranged inwardly of said pump cylinder, a cam ring secured to said brake backing plate concentrically of said axle and a spring acting to retract the piston in operative engagement with said cam ring, said pump cylinder being provided with a longitudinal air discharge passage in the wall thereof having its outlet end opening through said wall at a point inwardly of the hub flange, and a pipe for connecting the outlet end of said passage with the inner tube of the wheel tire.

2,391,653
**GOLDBEATER LUBRICATION MATERIAL**
Donald D. Swift, Hartford, Conn., assignor to M. Swift & Sons, Inc., a corporation of Connecticut
No Drawing. Original application October 28, 1939, Serial No. 301,797, now Patent No. 2,354,072, dated July 18, 1944. Divided and this application July 18, 1944, Serial No. 545,539
2 Claims. (Cl. 252—42.1)

1. The method of preparing a lubricant for metal beating, comprising the steps of dissolving sodium palmitate in alcohol, mixing completely dehydrated calcium sulphate uniformly therein to obtain a suspension of the calcium sulphate in the solution of sodium palmitate, and evaporating the alcohol.

2,391,654
**GOLDBEATER'S LUBRICANT**
Donald D. Swift, Hartford, Conn., assignor to M. Swift & Sons, Inc., a corporation of Connecticut
No Drawing. Original application October 28, 1939, Serial No. 301,797, now Patent No. 2,354,072, dated July 18, 1944. Divided and this application July 18, 1944, Serial No. 545,541
3 Claims. (Cl. 252—42.1)

1. The method of preparing a lubricant for metal beating, comprising the steps of dissolving sodium stearate in alcohol, mixing completely dehydrated calcium sulphate uniformly therein to obtain a suspension of the calcium sulphate in the sodium stearate solution, and evaporating the alcohol.

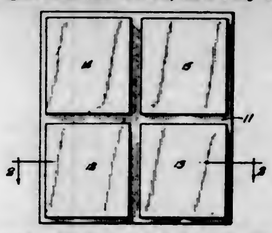
2,391,655
**NECKTIE**
Alfred Frank Taborski, Buffalo, N. Y.
Application June 29, 1944, Serial No. 542,788
4 Claims. (Cl. 2—150)



1. A necktie of a simulated type and comprising a rigid preformed knot structure, a spring-actuated plunger carried by the knot structure, a shoulder carried by the knot structure at the lower end thereof and forming a stop for the plunger, a fabric drape member, a rigid plate attached to the upper end of said drape member, and an angular lateral flange on the upper end of said plate and adapted for reception removably and with releasable clamping engagement between said plunger and said shoulder.

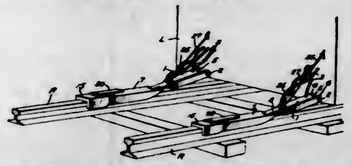
2,391,656
**TREATED METAL SHEET AND METHOD OF MAKING SAME**
Robert R. Tanner, Bloomfield Village, Mich., assignor to Parker Rust-Proof Company, Detroit, Mich.
Application March 31, 1942, Serial No. 436,969
6 Claims. (Cl. 113—120)

1. A ferrous sheet for forming containers, said sheet being coated with a fine-grained continuous phosphate coating weighing not over 110 milligrams per square foot of coated surface and having exposed areas where, and only where, the



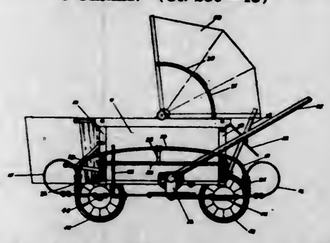
sheet is intended to be soldered in forming the container and having dried onto the rest of the surface a lacquer which is resistant to soldering flux.

2,391,657
**TRAIN BOOSTER**
Jacob Erhard Tavelin, Saratoga Springs, N. Y.
Application March 21, 1944, Serial No. 527,469
9 Claims. (Cl. 105—31)



1. Booster for railroad trains comprising blocks channeled to seat over a rail, cam members in one of the blocks with their rail engaging faces oppositely disposed and inwardly directed toward the channel to engage opposite sides of a rail therein, the other block having parts extending into the first mentioned block to operatively engage the cam members, a lost motion connection between the blocks and jack means interposed between the cam operating block and the locomotive.

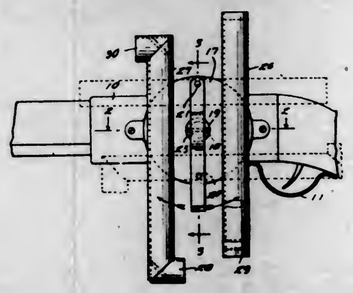
2,391,658
**BABY CARRIAGE**
William Henry Thornhill, Montreal, Quebec, Canada
Application June 9, 1944, Serial No. 539,519
9 Claims. (Cl. 280—43)



1. In a baby carriage, an undercarriage, carriage wheels connected to said undercarriage, a carriage body, means for raising and lowering said carriage body in a vertical direction, with respect to said undercarriage, means for preventing lateral and longitudinal motion of said carriage body during the raising and lowering of the same, and a steering mechanism for said running gear.

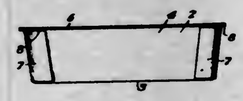


2,391,659
**FIREARM ATTACHMENT**
Charles F. Trafford, Binghamton, N. Y.
Application November 1, 1943, Serial No. 508,555
6 Claims. (Cl. 88—32)



1 The combination with a shoulder rifle of a telescope including a straight tube having coaxial lenses in its ends and a periscope including a straight tube terminating at its ends in oppositely directed right angular portions, supported as a unit in parallel relation upon the side of the rifle for rotation together on an axis extending transversely of the rifle for selective disposition in position for sighting in the direction in which the rifle is aimed.

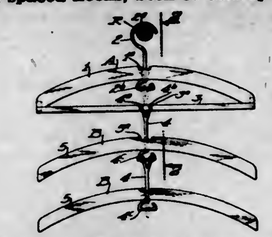
2,391,660
**BAKING PAN**
Ashley F. Ward, Cincinnati, Ohio
Application December 18, 1943, Serial No. 514,787
1 Claim. (Cl. 126—390)



A sheet metal baking pan of rectangular shape having a radiant heat absorptive outer surface and having angular sectioned patches of radiant heat reflecting sheet metal secured along the generally vertical corners of the pan and extending a substantial distance from the corners along the sides of the pan and serving the duel function of reinforcing the corners of the pan and of retarding the penetration of heat through the corners of the pan to prevent overbaking of the corners of a loaf baked in the pan.

2,391,661
**CLOTHES HANGER**
Alexander E. Watkins and William H. Easterford, Los Angeles, Calif.
Application January 1, 1943, Serial No. 470,956
8 Claims. (Cl. 223—93)

4. In a means of the class described, a clothes hanger comprising a hanger portion, having a transverse notch at its median portion, and a clothes bar secured at its ends to the ends of the hanger portion, the bar also having a transverse notch at its median portion, said hanger having an eye located between the hanger portion and the bar and in substantial alignment with the notches in both, and a second hanger having a bifurcated support at its upper end, the furcations having parallel spaced hooks, both of said spaced hooks



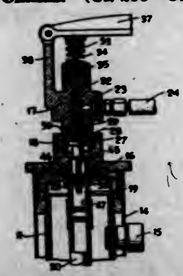
being capable of fitting and being located within either of the notches or the eye.

2,391,662
**AIRCRAFT STRUCTURE**
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1943, Serial No. 478,870
11 Claims. (Cl. 244—117)



1. In an airfoil anchorage construction, the combination of an airfoil frame member which includes a web and cap strips secured to each side thereof, the web including spaced panels and the cap strips being spaced apart and secured to each side of the web to form a socket to receive the tang of an anchorage member extending thereinto through the airfoil surface, an anchorage member having a tang disposed in said socket, said panels including transverse walls enclosing the ends of said socket opening, reinforcing strips secured to the sides of said panels, and bolts extending through said panels and cap strips securing said anchorage member in said socket.

2,391,663
**STEAM SPOTTING UNIT**
Albert J. Weber and Ernest L. Chrisman, Los Angeles, Calif.
Application December 13, 1943, Serial No. 514,084
4 Claims. (Cl. 299—84)

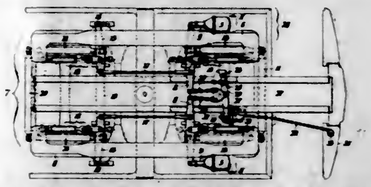


4. In an apparatus for supplying dry or wet steam, the combination of: a chamber containing water in one portion and steam in another communicating portion; a fluid outlet conduit; a water supply passage connecting the water portion of said chamber to said outlet conduit; a steam sup-

ply passage from the steam portion of said chamber to said outlet conduit; a valve positioned in said outlet conduit beyond the points of entry of said water and steam supply passages and arranged to control discharge of fluid from said outlet conduit; an operating means for operating said valve; and a steam supply passage throttling device so operatively connected to said valve and so arranged that after said operating means has been actuated to open said valve and steam is flowing through said outlet a further movement of said operating means in the direction which opened said valve will cause said throttling means to throttle said steam supply passage, the extent of such throttling being dependent on the extent of said further movement of said operating means.

---

**2,391,664**
**MANUALLY OPERABLE AUXILIARY MECHANISM FOR AIR-BRAKE SYSTEMS**
**Joseph W. White, St. Davids, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application February 3, 1945, Serial No. 575,975**
**6 Claims. (Cl. 188—107)**

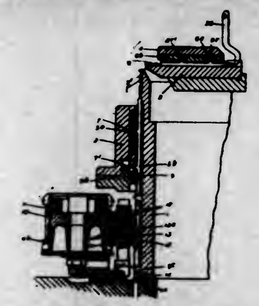


1. In a railway car brake system air cylinders for the brakes of the truck wheels at opposite sides of the car and a pair of horizontally-disposed transversely-extending cylinder levers respectively connected at their outer ends to the piston rods of the cylinders; auxiliary mechanism for actuating the brakes including a horizontally-disposed arm fulcrumed on the frame of the car; equalizing connecting means interposed between the inner ends of the cylinder levers and the arm, and manually-operable means for moving said arm.

---

**2,391,665**
**KNITTING MACHINE**
**Edwin Wildt, Henry Harold Holmes, and Albert Henry Widdowson, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company**
**Application August 23, 1944, Serial No. 550,739**
**In Great Britain September 6, 1943**
**10 Claims. (Cl. 66—24)**

1. In a knitting machine, in combination, a plain needle bed, an associated rib needle bed, needles for operation in said beds, the plain and rib needles being arranged in two independently operable sets with one half of each set of needles in alternating relationship in one bed and the remainder of each set in similar relationship in the other bed, so as to be capable of knitting two interlocked ribbed webs, and each of desired needles in at least one of the sets being of loop transferring form in which connection it includes a loop engaging catch and a loop expanding formation whereby upon appropriate endwise movement of such needle a loop can be engaged, expanded and retained so as to enable it to be entered by an appropriate receiving needle, yarn feeding means for introducing yarns independently to the respective sets of needles, corresponding sets of cam systems for causing the respective sets of needles to knit, and loop transferring



mechanism including means for imparting the aforesaid endwise movement to the transfer needles, for the purpose herein specified.

---

**2,391,666**
**BATTERY FILLING AND VENTING MEANS**
**Harland D. Wilson, Toledo, Ohio**
**Application April 13, 1942, Serial No. 438,743**
**13 Claims. (Cl. 136—178)**



1. In a device of the class described, a battery enclosure having a cover with a filling aperture, a depending tubular portion cooperating with the cover to terminate at the predetermined electrolyte level in the battery enclosure, venting means external of the depending tubular portion to vent gases collected over the electrolyte level, a vented closure member for the filling aperture having a projection extending into the aperture when the closure member is attached to the cover, a valve member actuated by gravity cooperating with the filling aperture and the depending tubular portion to close the venting means and entrap air over the electrolyte after the electrolyte level reached the predetermined level as determined by the depending tubular portion, and a surface on the projection of the closure member cooperating with a portion of the valve member, said surface and said portion being obliquely disposed relative to each other in an initial position, whereby the valve member is caused to tilt by a lateral engagement when the closure member is in closed position to open the venting means.

---

**2,391,667**
**PYROLYSIS OF ALKANOLS**
**James L. Amos, Midland, and Frederick J. Soderquist, Bay City, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application February 28, 1942, Serial No. 432,236**
**16 Claims. (Cl. 260—681)**

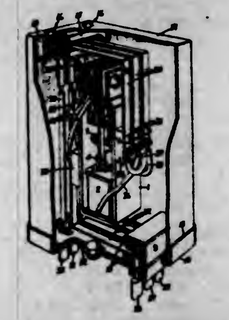
1. The method for preparing a conjugated diolefin which consists in passing a gaseous mixture



comprising an alkanol containing from four to five carbon atoms in the molecule and having a hydroxyl group attached to a carbon atom in a straight chain of at least four carbon atoms, water vapor and a hydrogen halide catalyst through a reaction zone maintained at a pyrolyzing temperature.

---

**2,391,668**
**MOUNTING MEANS**
**Kirby B. Austin, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**
**Application February 9, 1942, Serial No. 475,288**
**15 Claims. (Cl. 248—20)**



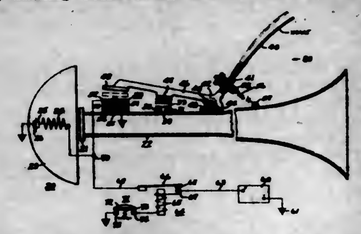
1. A mounting for a device which generates vibration in operation comprising resilient support members attached to opposite sides of said device, each of said members extending around an angle and thence to a fixed support, and each of said support members being resilient in two directions through said device.

15. A support for a vibrator having an electromagnet, a vibratory armature cooperating therewith, contacts cooperating with said armature, said electromagnetic armature and contacts being assembled in a unitary assembly, and a housing for said assembly, said support comprising a plurality of electrical connections extending through the wall of said housing to said assembly, each of said connections including a resilient conducting strip attached at one end to said housing and at the other to said assembly and having a substantial angle at a point intermediate its length to produce resilience in two directions, a plurality of said strips being attached to said assembly on each of two opposite sides thereof to support said assembly.

---

**2,391,669**
**SIGNALING DEVICE**
**Albert D. Baker, Linden, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 12, 1942, Serial No. 461,661**
**4 Claims. (Cl. 177—7)**

4. The combination with a vehicle signal device provided with a sound directing projector having a ported seat; of means dependent upon the vehicle speed for varying the tone of the signal device from one of low volume to one of full volume output, said means comprising a biased vane actuated in one direction by air currents produced by the speed of the vehicle, and a valve member for engaging the seat to close the port whereby the signal device will be conditioned to produce a full volume output when operated, said valve being moved against the seat by the vane only when the vane is moved sufficiently in said direction by the air current; an electromagnet; and means connecting the electromagnet in a



circuit when the device is operated, said electromagnet operating to prevent the valve from fluttering once said valve is against the seat to close the port.

---

**2,391,670**
**HEAT DISSIPATING SYSTEM FOR BEARINGS**
**Thomas J. Bay and Morris R. Machol, Washington, D. C.**
**Application May 18, 1942, Serial No. 443,484**
**4 Claims. (Cl. 308—77)**



1. A bearing structure including a backing member, a bushing member thermally united with said backing member for frictional contact with a shaft, heat dissipating means spaced from said backing member, and a flexible cable having a relatively high coefficient of thermal conductivity arranged to bridge the air gap between said backing member and the spaced heat dissipating means and thermally bonded at one end to said heat dissipating means and at its other end to one of the thermally united members.

---

**2,391,671**
**SELF-RELEASING DIE HOLDER**
**William M. Berg, New York, N. Y.**
**Application May 17, 1944, Serial No. 535,925**
**2 Claims. (Cl. 10—89)**

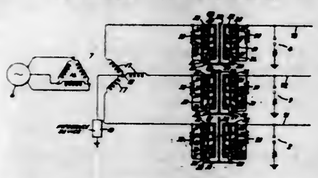


1. A self releasing die holder comprising a tubular member; a shank at the rear end of the tubular member; a cylindrical member rotatively supported in the tubular member; a transverse lug at the front end of the cylindrical member; a thread cutting tool having a transverse groove at the rear end for the transverse lug on the cylindrical member; a cap threaded on the front end of the cylindrical member arranged to clamp the thread cutting tool in place; an inner shoulder on the cap for clamping a tap holder in place; cooperating projections and recesses at the rear end of the cylindrical member and at the front

side of the bottom portion of the tubular member; yieldable means to move the cylindrical member into the tubular member; and a one way clutch between the tubular and cylindrical members.

---

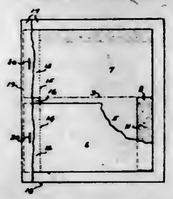
**2,391,672**
**MEANS FOR ELIMINATING THE SWITCHING OVERVOLTAGE HAZARD IN ALTERNATING CURRENT CIRCUITS**
**Eugene W. Boehne, Drexel Hill, Pa., and Harold A. Peterson, Scotia, N. Y., assignors to General Electric Company, a corporation of New York**
**Application February 27, 1943, Serial No. 477,400**
**18 Claims. (Cl. 175—294)**



1. In a circuit breaker for interrupting alternating current power circuits which have a substantially solidly grounded neutral and wherein the circuit breaker has a plurality of contacts and is characterized by a voltage gradient across said contacts exceeding the dielectric strength between the contacts after the first interrupting current zero when isolating a predominantly capacitive load, means for holding the voltage gradient across said contacts within the dielectric strength between the contacts comprising resistance means across said contacts proportioned to have a total ohmic value from one to 4.4 times the positive phase sequence capacitive reactance of said load.

---

**2,391,673**
**ENVELOPE**
**Albert M. Broudy, Pittsburgh, Pa.**
**Application March 21, 1944, Serial No. 527,476**
**2 Claims. (Cl. 229—68)**



1. An envelope for binding into a printed publication comprising an integral paper blank having a succession of three connected similar panels, these panels joining one another along fold lines extending crosswise of the blank, there being an upper, an intermediate, and a lower panel, the upper and lower panels having a binding strip thereon at one side edge thereof and substantially coextensive therewith, the binding strips being connected to their respective panels along easy-tear lines which are in line with each other on the upper and lower panels, the intermediate panel having one edge in line with the tear lines and having at its opposite edge a cross flap joined thereto along a fold line, said cross flap being similar in dimensions to said binding strip, the lower panel being folded over the intermediate one and being marginally glued inwardly of its binding strip to the intermediate panel, the cross flap of the intermediate panel being glued to the opposite marginal edge of the lower panel, said upper panel having a gummed strip along its top free edge, the binding strips extending beyond the borders of the envelope so that upon being bound in a publication the complete envelope may be severed from the binding strips, the upper panel then forming a cover flap for the envelope.

---

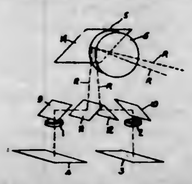
**2,391,674**
**METHOD OF MAKING TRANSMISSION BELTS**
**Arthur S. Brown and Gertrude E. Sedgley, Tilton, N. H.**
**Application May 11, 1944, Serial No. 535,078**
**1 Claim. (Cl. 28—77)**



The method of making a transmission belt which comprises weaving a tubular fabric with a plurality of parallel fold-guiding threads extending circumferentially therearound at regularly spaced intervals lengthwise of the fabric, which threads are readily distinguishable from the other threads of the fabric, cutting the tubular fabric transversely into belt-forming tubular sections with the lines of cut extending parallel to the parallel fold-guiding threads, the spacing between the adjacent fold-guiding threads being only a fraction of the width of each such section so that each tubular section has a plurality of such parallel fold-guiding threads thereon which are parallel to the edges of the section, folding the edge portions of each section back on the central portion thereof with the lines of fold extending parallel to the fold-guiding threads, assembling two folded sections by placing one within the other with the folded edges of each section contacting with the folded edge of the other section and securing the two sections together, thereby forming an endless belt.

---

**2,391,675**
**STEREOSCOPE**
**Leo H. Brown, New York, N. Y.**
**Application February 11, 1943, Serial No. 475,479**
**2 Claims. (Cl. 88—29)**



1. A stereoscope which comprises a support which supports the stereoscopic pictures in a common plane, a housing which has an opening, said housing and said support being adjustable relative to each other in a direction which is perpendicular to said common plane, an eyepiece located in said opening, an opening-reflector carried in said housing inwardly of said eye piece, said opening-reflector being shaped and located to reflect the incident rays which fall on said opening-reflector so that the reflected rays are transmitted through said eye piece and said opening, respective objective-lenses carried by said housing, each objective-lens being adapted to form a real image of a respective stereoscopic picture, respective objective-lens mirrors carried by said housing and associated respectively with the respective objective-lenses, each said objective-lens mirror being located inwardly of the respective objective-lens, additional reflecting means carried in said housing, said additional reflecting means being located and shaped to reflect the light which is reflected from said objective-lens mirrors to said opening-reflector, said eyepiece being sufficiently large to permit the respective pictures to be simultaneously viewed by the light which is transmitted through said eye-piece at a station which is spaced from said eyepiece.



---

**2,391,676**
**PNEUMATIC PRUNING SHEARS**
**Leander Browning, Greenwood, Ind.**
**Application April 14, 1944, Serial No. 530,975**
**2 Claims. (Cl. 121—21)**

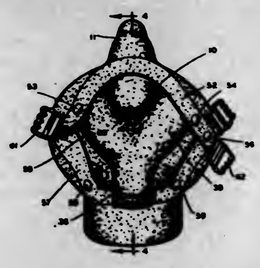


2. A pneumatic implement comprising a main barrel, a piston reciprocable therein, means biasing said piston to retracted position, manually controlled means for blocking protractive movement of the piston, an inlet valve controlling flow of pressure air to the piston in protracting direction, means biasing said valve to closed position, a reciprocable tube aligned with the piston between piston and inlet valve, a spring biasing said tube in piston protracting direction, a reciprocable rod in said tube and contacting said valve in opening direction only, a spring in said tube biasing said valve in valve-opening direction, an exhaust valve and a connection between said exhaust valve and rod.

---

**2,391,677**
**HIGH ALTITUDE OXYGEN SUPPLYING MASK**
**Arthur H. Bulbulian, Rochester, Minn.**
**Application July 22, 1943, Serial No. 495,967**
**1 Claim. (Cl. 128—142)**

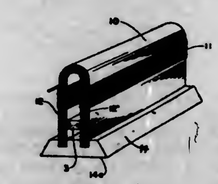
A high altitude oxygen supplying mask, comprising a mask body, a face engaging portion secured at its median line to the edge of the mask body and with the inner part thereof of flexible rubber embodying a nose engaging part at the top and a chin enveloping part at the bottom and adapted to form with the mask body an enclosed breathing chamber as the mask is worn, a microphone chamber united with the nose engaging part, a single combined exhalation chamber and passageway mounted centrally of the mask body, the walls thereof being shaped and positioned to form a narrow outlet of rectangular cross section and of a width greater than half the total width of the mask body which extends downwardly and inwardly in a short passageway under the chin-enveloping part of the mask as worn, a centrally positioned inhalation tube having part of its walls



made up of walls of the microphone chamber and the exhalation chamber and having tubes in the form of a Y leading along the sides of the mask body therefrom, and securing straps, one passing over the mask body at the top of the microphone chamber and the other passing over the upper end of the walls forming the outlet chamber and crossing and being united together and to the mask at their crossing points, whereby an extremely compact mask arrangement of breathing chamber, microphone chamber and exhalation and inhalation passageways is provided having a high degree of combined rigidity adapted to resist the strains of the securing straps and of air pressures.

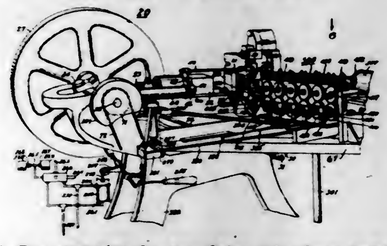
---

**2,391,678**
**MAGNETOSTRICTION TRANSDUCER**
**Francis P. Bundy, Medford, Mass., assignor to the United States of America, as represented by the Secretary of the Navy**
**Application August 29, 1945, Serial No. 613,351**
**5 Claims. (Cl. 177—386)**



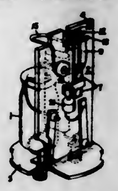
5. A transducer including a generally U-shaped core of laminations of magnetostrictive material, a winding on at least one leg of said core adapted to be energized with alternating current, a diaphragm actuated by said core, and permanent magnet means for establishing a polarizing magnetic flux through said core, said magnet means extending between the legs of said core.

2,391,679
APPARATUS FOR SUPPLYING WIRE FROM WIRE SUPPLY SPOOLS TO BENDING PRESSES
James S. Burge, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 23, 1942, Serial No. 431,964
5 Claims. (Cl. 140—126)



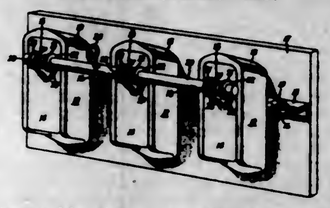
1. In apparatus for supplying wire from a wire supply-spool to a bending press having an operating shaft, the combination comprising the press operating shaft, means for rotatably supporting the supply-spool, means operated by the press operating shaft for rotating the spool to unreel the wire, means for feeding the wire comprising a plurality of pairs of feed rolls by which the wire is gripped, a power operated driving clutch member, a driven clutch member connected with the feed rolls, means for causing the clutch members to be connected for one revolution, means for individually stopping the pairs of feed rolls at the end of one revolution, and means operated by the press operating shaft for effecting momentary retraction of the feed roll stopping means and for effecting the operation of the means which causes the clutch members to be connected for one revolution.

2,391,680
LOCK-OUT SWITCH FOR FLUORESCENT LAMP STARTERS
Leonard W. Cook, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 18, 1943, Serial No. 506,640
5 Claims. (Cl. 200—122)



1. A lock-out switch for a fluorescent lamp starter comprising an insulating plate, a bimetallic contact strip secured at one end thereto, a heater associated with said strip for causing the free end thereof to deflect away from said plate, said strip having a latch at its free end, a cooperating contact wire mounted on said plate for engagement with said strip, said wire being biased to disengage said strip when released by said latch, and an arcing strip mounted on said plate in electrical connection with said bimetallic strip, said arcing strip extending beyond said latch and arranged to engage said contact wire on the side thereof opposite to that engaged by said bimetallic strip.

2,391,681
GANG-OPERATING MECHANISM FOR SWITCHING DEVICES
Charles R. Craig, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 23, 1943, Serial No. 473,940
2 Claims. (Cl. 200—153)



1. In combination, a plurality of switching devices, each including an operating eye, means for mounting said switching devices in spaced relationship with respect to one another so that said operating eyes are in substantial alignment with each other, an insulating rod extending through the operating eye of all of said switching devices, insulating spacers mounted on said rod on either side of said operating eyes to hold said insulating rod against movement relative to said operating eyes, and means including said insulating rod for providing a gang-operating mechanism for said switching devices.

2,391,682
SAFETY DEVICE
Richard R. Cramer, Dayton, Ohio
Application August 28, 1944, Serial No. 551,571
6 Claims. (Cl. 192—82)

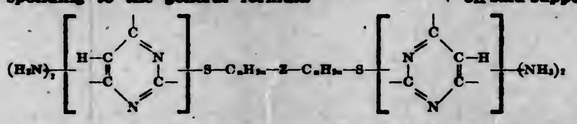


1. In a machine of the class described having clutch operating means and a clutch pedal for initiating operation of said clutch operating means, a safety device comprising a sleeve element connected to the clutch operating means, an operating element slidably mounted in said sleeve element, said operating element being connected to the clutch pedal, locking instrumentalities operative to interlock said elements to prevent relative movement thereof, release means for releasing said elements for relative movement, and hydraulic means associated with said elements for controlling the relative movement thereof, wherein the hydraulic means comprises a fluid cylinder, a piston reciprocable in said cylinder, said cylinder and said piston each being connected with a respective one of said elements, and valve means permitting movement of fluid from one side of said piston to the other and adjustable to vary the maximum rate of movement of said piston relative to said cylinder.



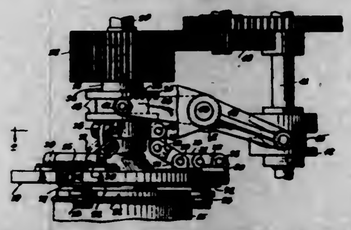
2,391,683
REACTION PRODUCTS OF ALDEHYDES AND DIAZINE DERIVATIVES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application October 12, 1942, Serial No. 461,770
3 Claims. (Cl. 260—72)

1. A composition comprising the resinous reaction product of (1) a chlorinated acetamide and (2) a product of partial reaction of ingredients including formaldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, and Z represents a member of the class consisting of oxygen and sulfur.

2,391,684
SEAMING MECHANISM
Willy Diesel, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a corporation of Connecticut
Application December 23, 1943, Serial No. 515,401
1 Claim. (Cl. 113—24)



In a seaming mechanism having a seaming-roller carrier that has a straight-line movement toward and away from the work-piece to be acted upon, and having power-actuated operating means to effect such movement: a supporting-member constructed and arranged to rigidly support a seamer head extending at right angles to said supporting-member, and to support a sleeve slidable lengthwise of said supporting-member; a seamer head, rigidly carried by said supporting-member and extending at right angles thereto, said seamer head having a radial guideway to slidably receive a seaming-roller carrier, and constructed and arranged to be connected to said seaming-roller carrier by means of toggle-links; a seaming-roller carrier, having provision to support a seaming roller, constructed and arranged to slide in the radial guideway of said seamer head and to be connected to said seamer head by means of toggle-links; a seaming roller supported by said seaming-roller carrier to follow the radial sliding movement of the latter in a straight line toward and away from the work-piece to be acted upon; means to effect radial movements of said seaming-roller carrier, toward and away from the work-piece to be acted upon, in response to the action of the power-actuated operating means and to protect said power-actuated operating means against excessive strain during that movement of said seaming-roller carrier which brings said seaming roller into engagement with the work-piece being acted upon, including: two toggle-links constructed and arranged to extend radially of said seamer head and to be completely straightened in moving said seaming-roller carrier toward the work-piece, one of said toggle-links having a pivotal support on said seamer head and the other of said toggle-links having a pivotal support on said seaming-roller carrier, and said toggle-links having pivotal connection at a point equidistant from their pivotal supports on said seamer head and said seaming-roller carrier; a sleeve constructed and arranged to slide on said supporting-member and to be rigidly connected to and follow the movement of a grooved collar forming part of power-actuated operating means; power-actuated operating means constructed and arranged to impart a sliding movement to said sleeve of such predetermined amplitude as to flex said toggles when said seaming-roller carrier is moving away from the work-piece, and to completely straighten said toggles when said seaming-roller carrier is moved toward the work-piece, said power-actuated operating means including a grooved collar, connected to slide with said sleeve, and a pivotally supported oscillatory actuating lever having means to engage said grooved collar to effect sliding movement thereof and of said sleeve; and a connecting means between said sleeve and said toggle-links to transmit the sliding movement of said collar and sleeve to flex said toggles when said seaming-roller carrier is moving away from the work-piece, and to completely straighten said toggles when said seaming-roller carrier is moved toward the work-piece.

2,391,685
STABILIZATION OF HALOGENATED COMPOUNDS
Lawson Egerton, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1940, Serial No. 365,633
9 Claims. (Cl. 175—41)



1. An electric capacitor comprising metal armatures separated by a dielectric comprising paper impregnated with a chlorinated aromatic hydrocarbon containing a small proportion of a non-explosive aromatic compound containing a benzene ring having a nitro group substituted on at least one of its ring carbon atoms and having

a substituent of at least one other ring carbon atom, said aromatic compound containing no amino or hydroxyl groups.

9. A chlorinated naphthalene having dissolved therein a small proportion of a nitrochlorobenzene.

---

**2,391,686**
**ELECTRICAL CONDENSER AND DIELECTRIC ELEMENT**
**David A. McLean, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Original application August 31, 1938, Serial No. 227,652. Divided and this application November 14, 1940, Serial No. 365,642**
**12 Claims. (Cl. 175—41)**

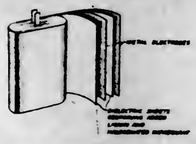


1. A dielectric element comprising paper containing bentonite the exchangeable hydrogen ions of which have been replaced at least in part by metal ions, said paper being impregnated with a chlorinated aromatic hydrocarbon.

2. An electric condenser comprising spaced metal electrodes separated by a porous spacer impregnated with a chlorinated aromatic hydrocarbon and containing a solid adsorbent.

---

**2,391,687**
**STABILIZATION OF ELECTRIC CONDENSERS**
**David A. McLean, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application January 9, 1941, Serial No. 373,733**
**8 Claims. (Cl. 175—41)**



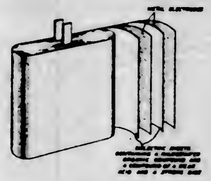
2. An electrical insulating element comprising a body of paper fibres containing at least 10 per cent by weight of lignin and impregnated with a halogenated aromatic hydrocarbon.

6. An electric condenser comprising metal armatures separated by a dielectric comprising a paper spacer containing at least 10 per cent by weight of lignin and impregnated with a nongaseous organic compound containing a chlorinated aromatic ring which possesses good electrical insulating properties and which by virtue of its halogen content tends to cause unduly rapid deterioration of the dielectric during the operation of the condenser.

---

**2,391,688**
**MANUFACTURE OF ELECTRICAL CONDENSERS**
**David A. McLean, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 14, 1940, Serial No. 365,642, which is a division of application Serial No. 227,652, August 31, 1938. Divided and this application December 10, 1941, Serial No. 422,311**
**11 Claims. (Cl. 175—41)**

1. An electric condenser comprising metal armatures separated by a dielectric comprising a chlorinated aromatic hydrocarbon which tends to break down to form hydrogen chloride during the operation of the condenser at elevated temperatures and a relatively small amount of a compound of calcium with the acidic constituents of gum arabic.



8. A condenser dielectric comprising paper impregnated with a chlorinated aromatic hydrocarbon and containing a carbohydrate gum having its acidic constituents combined with a strong inorganic base.

9. A condenser paper for forming condenser dielectrics comprising paper containing a compound of a strong inorganic base with the acid substances contained in a carbohydrate gum.

---

**2,391,689**
**STABILIZATION OF HALOGENATED COMPOUNDS**
**Lawson Egerton, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 14, 1940, Serial No. 365,634**
**10 Claims. (Cl. 175—41)**



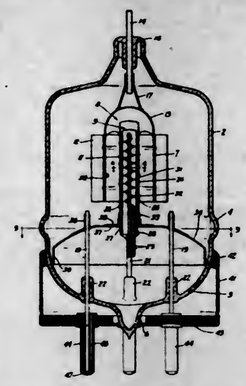
1. A halogenated organic compound which by virtue of its halogen content tends to corrode metallic bodies when maintained in contact with them at elevated temperatures and under an electrical potential, said halogenated compound containing a minor portion of an inhibitor substance selected from the group consisting of maleic anhydride and the substituted derivatives of maleic anhydride.

5. In an article or device wherein a metal is maintained in contact with a halogenated organic compound which by virtue of its halogen content tends to attack said metal or to form decomposition products which attack said metal, a corrosion inhibitor dissolved in said halogenated organic compound comprising a substance selected from the group consisting of maleic anhydride and the substituted derivatives of maleic anhydride.

---

**2,391,690**
**ELECTRON TUBE**
**William W. Eitel, Woodside, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California**
**Original application March 21, 1944, Serial No. 527,474. Divided and this application July 27, 1945, Serial No. 607,460**
**9 Claims. (Cl. 250—27.5)**

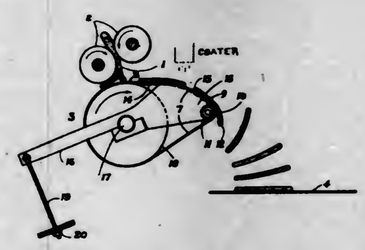
1. An electron tube comprising an envelope, a tubular anode in the envelope, a cathode extending into the anode, a grid assembly consisting of an inner grid and outer grid interposed between the cathode and anode, an anode lead projecting into the upper portion of the envelope, means supporting the anode on said lead, cathode



and grid leads projecting into the lower portion of the envelope, means supporting the cathode on the cathode leads, means supporting the inner grid on a grid lead, and a shield carrying the outer grid and supported on the envelope.

---

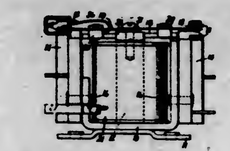
**2,391,691**
**WORKPIECE DEPOSITOR FOR DOUGH MOLDERS**
**Eugene Oscar Engels, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York**
**Application June 19, 1944, Serial No. 540,980**
**7 Claims. (Cl. 198—33)**




1. A dough piece transpositor adapted to be mounted below a source of sheeted dough pieces and above a traveling apron of a dough molder; said transpositor comprising a power-driven roll; a nosing spaced laterally from said roll and above said apron; a flexible belt mounted on said roll and nosing; a belt-guiding member mounted between the top peripheries of the said roll and nosing, a portion of said member extending substantially straight away from the top periphery of the driven roll, another portion being bowed and extending downwardly in substantially oblique direction; the top run of said belt being slidable on said guiding member and constrained to a path of travel that diverges from the direction of said straight-away portion in progressively increasing degree.



**2,391,692**
**ELECTROMAGNETIC RELAY**
**Phillip H. Estes, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 25, 1942, Serial No. 452,295**
**5 Claims. (Cl. 175—336)**



1. In an electromagnetic relay subject to large unidirectional and oscillatory accelerating forces, a stationary magnet frame, a magnetic armature pivotally mounted for movement toward and away from said frame, means for mounting said armature comprising a substantially U-shaped saddle having a flat bight portion provided internally with a transverse ridge, said armature being positioned within said saddle and being rockably seated substantially at its center of gravity upon said ridge thereby to render the movement of said armature substantially independent of said accelerating forces, means for fixedly mounting said saddle upon said frame and loosely securing said armature within said saddle comprising a bolt having a head portion formed to provide a pair of spaced apart annular shoulders, said bolt passing through said armature and said saddle in the region of said ridge and said shoulders being spaced apart a distance greater than the thickness of said armature, and a flat spring connected between said frame and said armature for biasing said armature to a position spaced from said frame.

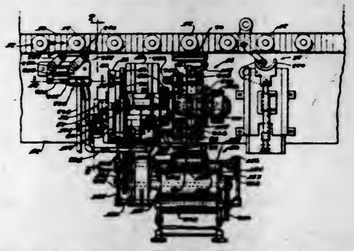
---

**2,391,693**
**SURGICAL SPLINT**
**Joe J. Ettinger, Warsaw, Ind., assignor to Zimmer Manufacturing Company, Warsaw, Ind.**
**Application December 9, 1943, Serial No. 513,513**
**3 Claims. (Cl. 128—84)**



1. In a device of the kind described, a cylindrical supporting bar, a hollow segmento-cylindrical member mounted on said bar for rotation thereon and sliding movement there along, a pair of spaced arms extending from the ends of said member, threaded means for drawing said arms toward each other and thereby clamping said member on the bar, one of said means constituting a bone screw holder and clamping jaw holding a bone screw for rotation about the axis of said means in a plane parallel to the axis of said bar, said threaded means effecting clamping of itself from rotation in its axis when tightened and thereby effecting holding of the bone screw against rotation in said plane.

2,391,694
**LABELING MACHINE**
Arthur Clarence Everett, Boston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application February 18, 1944, Serial No. 522,952
23 Claims. (Cl. 216—55)



1. In a labeling machine, in combination, a conveyer for supporting and conveying successive containers into labeling position, labeling mechanism including a magazine for holding a supply of labels, means for engaging and withdrawing the lowermost label in the magazine, and control means including a pneumatically operated member for preventing withdrawal of a label from the magazine in the event of absence of the container from the conveyer to which such label would otherwise be applied.

2,391,695
**DRY SHAVER CLIPPER ATTACHMENT**
Benjamin F. Fiegel, Racine, Wis.
Application April 28, 1944, Serial No. 533,161
8 Claims. (Cl. 30—34)



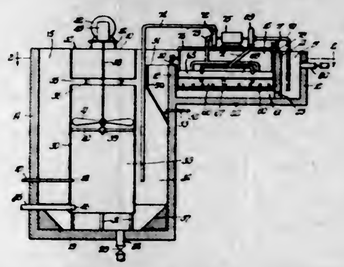
3. In a dry shaver having a shaving head including a slotted outer shell and a slotted inner member movable relative to the shell, an independent clipper attachment mounted exteriorly of the shell and having a fixed and a movable blade with portions of the latter being directly connected to opposite end portions of said inner member of the shaving head and operated thereby.

2,391,696
**WIRE TWISTING DEVICE**
Asa C. Goddard, Mentor, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application January 29, 1945, Serial No. 575,085
4 Claims. (Cl. 140—119)



1. In a hand tool, a main hollow body portion, a pair of plier bars having work engaging jaws and pivotally connected to each other and slidably mounted in said body, a hand lever pivotally connected to said body and connected to said plier bars by means to effect sliding movement thereof outwardly into and inwardly out of work clamping position and permitting rotation of said bars independently of said means, said body having its rear end flared outwardly, one of said bars carrying near its inner end a rotatable member engaging the inner surface of the flared end of said body and a hand crank connected to said last-named bar for jointly rotating said bars when their jaws are in work clamping position.

2,391,697
**LIQUID TREATING APPARATUS AND PROCESS**
Walter H. Green, Batavia, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application May 26, 1943, Serial No. 488,794
6 Claims. (Cl. 210—12)



1. Water treating apparatus comprising a slurry chamber having a bottom and an upstanding boundary wall, a mechanical agitator in said chamber, means for rotating said agitator, a supply inlet opening into the lower portion of said chamber, a filter chamber, a hydraulic communication between said slurry chamber and said filter chamber adjacent the upper edge of said boundary wall, a filter bed in said filter chamber, an outlet for filtered water from said filter chamber, means for washing said filter, means for delivering dirty wash liquid from said filter into said slurry chamber, a solids depositing chamber within said slurry chamber, an inlet into said depositing chamber in proximity to but spaced below the upper edge of said boundary wall, whereby more readily separable solids are skimmed from slurry rising to said hydraulic communication, an outlet from said depositing chamber to waste, and a drain outlet from the lower portion of the slurry chamber.

2,391,698
**MUSICAL SIGNAL DEVICE**
Alexis C. Greisgal, New York, N. Y., assignor to Marks Products Co. Inc., Brooklyn, N. Y., a corporation of New York
Application April 24, 1940, Serial No. 331,332
4 Claims. (Cl. 177—7)

3. In a sustained-signal device of the momentarily-energized resonance box annunciator type described, a vibratile element consisting of a wide thin strap of metal bent into U-shape defining a pair of substantially parallel leg portions disposed with their broad inboard faces in spaced opposition and joined by an integral intermediate bend portion, said legs each having a width of at least 20 times the thickness of the metal strap

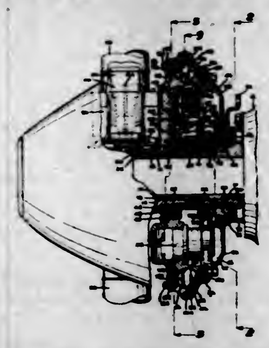


of which they are formed, and means attached to said intermediate bend portion of said strap



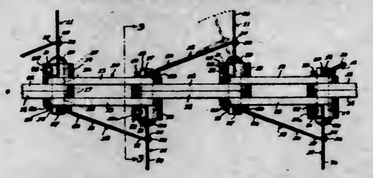
for supporting said vibratile element and mounting same upon the resonance box of the signal device.

2,391,699
**PROPELLER CONTROL MECHANISM**
John F. Haines and Thomas E. Martin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 26, 1942, Serial No. 456,225
18 Claims. (Cl. 170—163)



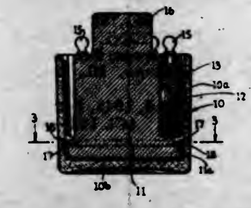
1. A propeller control mechanism of the character described for use with an hydraulically adjustable propeller having provision for effecting adjustment of the pitch of the propeller blades upon the application of fluid pressure thereto comprising a propeller hub, a housing rotatable with said propeller hub, a relatively stationary member projecting into said housing, means providing a reservoir within said housing for receiving a quantity of fluid pressure medium, pump means within said housing and operative upon relative rotational movement between said housing and stationary member to provide a source of said fluid under pressure, means within said housing for limiting the action of said pump means after the establishment of a predetermined pressure, means to maintain a supply of said fluid under said condition of predetermined pressure available for use as a reserve source of pressure operating fluid, means responsive to the speed of rotation of said propeller for selectively controlling the application of said pressure operating fluid to maintain a predetermined speed of operation, means continuously operable for varying the action of said controlling means to cause the same to respond to different predetermined speeds, and means operable continuously during either operation of or quiescence of the propeller for suppressing the varying action of the controlling means, and for selectively applying the full force of said reserve source of pressure operating fluid to said pitch adjusting provisions.

2,391,700
**RESILIENT FLIGHT CONVEYER**
Henry W. Hagman, Detroit, Mich.
Application March 23, 1942, Serial No. 435,847
24 Claims. (Cl. 198—170)



1. In a flight conveyer, elongated conveying means moving in an extended path, swivel blocks carried by said conveying means in spaced apart relation, conveyer flights yieldingly mounted on said conveying means and pivotally attached to said swivel blocks to swing from a normal position perpendicular to the conveying means in a direction opposite to the direction of conveyer travel and limited against movement in the direction of conveyer travel beyond the normal perpendicular position, and resilient braces arranged between said conveying means and said flights and yieldingly urging said flights against their normal positions of limited travel and into positions transverse to said conveying means about the axes of said swivel blocks and pivotal attachment of said flights, the axis of said swivel blocks and flight pivots being at right angles one to the other.

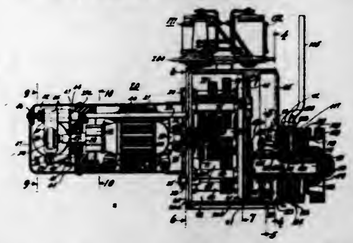
2,391,701
**RAZOR BLADE SHARPENER**
David Heller, Brooklyn, N. Y.
Application October 19, 1942, Serial No. 506,833
5 Claims. (Cl. 51—161)



1. In a blade sharpener of the character described, a hollow cylindrical member, a carrier member received within said hollow member and axially relatively rotatable with respect to said hollow member, means for supporting a plurality of razor blades on said carrier member in circumferentially spaced relationship and in such manner that the said blades will be caused to flex into frictional contact with the adjacent wall of the hollow member, said last named means comprising an independent block for each blade, said blocks being mounted on said carrier member for rotational movement therewith, said blocks being additionally slidably movable with respect to said carrier member in a direction parallel to the axis of rotation of said carrier member so that a single

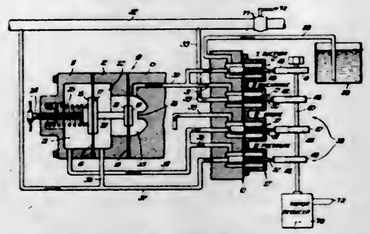
blade may be selectively removed without necessitating the withdrawal of said carrier member from said cylinder member and without disturbing the remaining blades.

2,391,702
SERVOMOTOR
Robert H. Hill, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 2, 1943, Serial No. 489,397
6 Claims. (Cl. 192—142)



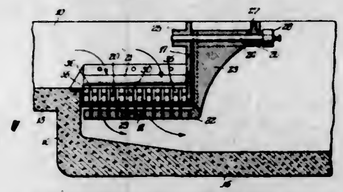
6. An electric servo motor unit comprising a tubular housing having a partition wall intermediate its open ends; a unitary sub-assembly comprising two annular, coaxial, spaced discs, shafts between said discs, certain of which support cooperating gears of a spaced reducing gear train, the others holding the discs properly spaced, an electric motor attached to the one disc and operatively connected to the gear train; coaxial, annular recesses in the open end of the housing and the partition wall, the recess in the open end receiving the motor supporting disc, the recess in the partition wall receiving the other disc; means in the partition wall for securing the seating disc of the sub-assembly thereto; a shaft extending from the gear train through an opening in the partition wall; a switch for controlling the motor, secured in the housing on the side of the partition wall opposite the gear train; means on the shaft for actuating the switch; and a lever on the shaft operated thereby.

2,391,703
PROPORTIONING PUMP
Walter J. Hughes, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application March 6, 1943, Serial No. 478,191
10 Claims. (Cl. 103—152)



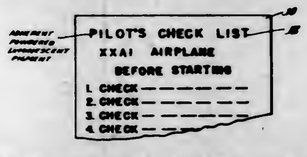
1. A chemical pump, which comprises in combination, a housing, spaced apart diaphragms partitioning said housing into a forcing chamber, a constant pressure chamber and a pumping chamber adjacent each other, a conduit connected to the said constant pressure and forcing chambers and adapted to connect the same to a source of liquid under pressure, and mechanically actuated valves associated with said pumping and forcing chambers and cooperating to alternately connect said forcing chamber to atmosphere and to admit liquid under pressure thereto, and in unison therewith to admit liquid to be pumped to said pumping chamber and discharge it therefrom.

2,391,704
SEWAGE COMMINUTING APPARATUS
Walter J. Hughes, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application October 11, 1943, Serial No. 505,873
11 Claims. (Cl. 210—152)



1. A sewage solids cutting and straining device comprising a semi-cylindrical grid adapted to be placed horizontally and longitudinally across an opening in the bottom of a sewage flow channel, a plurality of transverse slots extending circumferentially of said grid, a tooth carrying bar reciprocable along the underside of said grid, means for reciprocating said carrying bar, cutting teeth on the upper side of said carrying bar and extending through said slots, a cutter bar adjacent the end of said slots, and notches in said cutter bar interposed in the path of travel of said cutting teeth.

2,391,705
PRINTING METHOD AND PRODUCT
Sampson Isenberg, Chicago, Ill., assignor to General Luminescent Corporation, Chicago, Ill., a corporation of Illinois
Application August 10, 1942, Serial No. 454,291
12 Claims. (Cl. 40—134)




1. In that method of applying characters to a surface, said characters being visible in both daylight and ultra-violet light, which comprises printing on said surface with a base coat comprising a tacky sizing material, and dusting on said base coat, while still tacky, a powdered luminescent material, the step which comprises utilizing as the luminescent material a powdered luminescent material the individual particles of which are in the main coated with a chemical compound comprising a partial ester of a relatively high molecular weight monocarboxylic acid and a polyhydric alcohol.

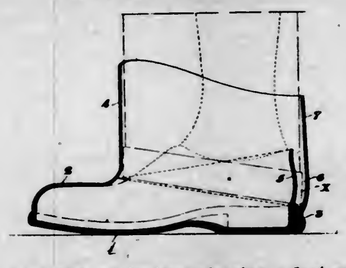
5. As a new article of manufacture, an article providing a surface, and printed characters thereon, the printed characters comprising a base coat and a powdered luminescent material adherent thereto, the luminescent material having intimately admixed and associated therewith a chemical compound comprising a partial ester of a relatively high molecular weight mono-carboxylic acid and a polyhydric alcohol.



2,391,706
METHOD OF FORMING BLOCKING LAYERS ON SELENIUM COATED PLATES
Lloyd R. Jackson and Wendell F. Stewart, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application October 10, 1940, Serial No. 360,636
14 Claims. (Cl. 204—56)

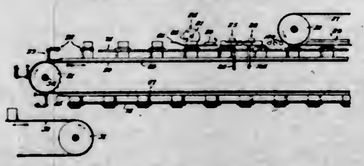
1. The method of treating a selenium surface to produce a blocking layer capable of withstanding a breakdown voltage in excess of 70 volts, which comprises treating said selenium surface cathodically in an electrolyte composed essentially of nitro-benzene and containing chromium trioxide in amounts up to 2.3 grams per liter and less than 1.2 grams of water per liter.

2,391,707
BOOT AND SHOE
Sanford J. Jarrell, Norfolk, Va.
Application April 26, 1945, Serial No. 590,467
3 Claims. (Cl. 36—70)
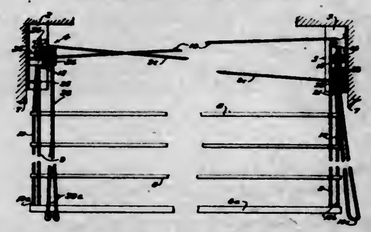


1. An article of footwear having a foot and leg portion, said leg portion being of such size and shape as to be capable of enclosing the lower end of the usual trousers without folding or creasing same, and also having means whereby the heel of the wearer is spaced from the inner rear portion to provide a channel to receive the lower edge of the trousers.

2,391,708
CARTON CLOSING DEVICE
Warren C. Johnson, Cedar Rapids, Iowa, and Douglas Kirk, Chicago, Ill., assignors, by mesne assignments, to Quaker Oats Company
Application June 26, 1943, Serial No. 492,350
4 Claims. (Cl. 93—6)



1. A machine for folding the flaps on the side walls of a series of tubular cartons of rectangular cross section to form end closures therefor comprising conveyor means adapted to carry said series of cartons with said flaps extending therefrom substantially in the planes of said side walls continuously and at regularly spaced intervals in a predetermined path, continuously rotating means along said path and synchronized with said conveyor for folding those of said flaps in leading and trailing position into substantially the same plane, and a pair of flap-folding members synchronized with said conveyor and traveling continuously in circular translational motion for folding the other two of said flaps consecutively into overlapping relation to said leading and trailing flaps.

2,391,709
VENETIAN BLIND
Louis Kasan, New York, N. Y.
Application August 27, 1943, Serial No. 500,231
12 Claims. (Cl. 160—174)



3. A Venetian blind having the combination of blind-functioning slats, means for supporting said slats including suspenders secured to one side of said slats, suspenders secured to the opposite sides of said slat, a rotatable element mounted above and at one side of the blind, one of said opposite side suspenders being secured to said rotatable element, said other opposite-side suspender having guiding means at the opposite side of the blind and extending therefrom to said rotatable element and being secured to said element, and mechanism for rotating said element to actuate said opposite-side suspenders for tilting said slats.

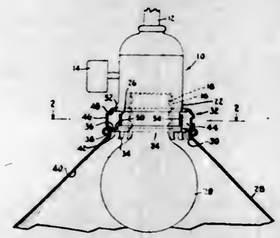
2,391,710
METHOD OF BLEACHING
Hans O. Kauffmann, Eggertsville, and Paul H. Margulies, Kenmore, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y.
No Drawing. Application May 19, 1939, Serial No. 274,650
1 Claim. (Cl. 8—111)

The method of bleaching goods composed of fibers of the class consisting of cellulose, regenerated cellulose, and artificial silks, and which contain portions dyed with naphthol dyes, which comprises treating the goods with an alkaline active oxygen bleaching solution having an initial pH value of less than about 9.0 and containing a freshly precipitated magnesium compound possessing latent alkalinity suspended therein in amount sufficient to render dye fast to active oxygen bleaching solutions.

2,391,711
LAMP SHADE RETAINER
Souren R. Kasanjian, New York, N. Y.
Application January 17, 1942, Serial No. 427,106
3 Claims. (Cl. 240—129)

1. Means for supporting a lamp shade in position in relation to an electric-light-bulb-retain-

ing socket, the means including an annular member, the annular member carrying a flexible band of material and positioning the band between the socket and the shade, the ends of the band extending past each other to form a complete loop within the annular member, immediately juxta-



posed portions of the looped band being interlocked so that they cannot move apart but can move relatively to each other, and means for moving the ends of the band relatively to each other to adjust the effective area encompassed by the looped band.

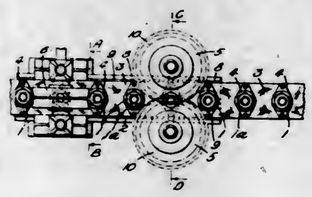
---

2,391,712

**METHOD OF MAKING SELF-LOCKING NUTS**

**Ronald D. King and Norman F. Wood, Portsmouth, England**

Application November 15, 1943, Serial No. 510,270
In Great Britain December 15, 1942
5 Claims. (Cl. 10—86)



1. A method of cutting slots transversely into the screw threaded openings of nuts and distorting the material of the nuts to position the screw threads adjacent to the slots out of their correct relative correlation, which comprises continuously conveying a series of nuts in a horizontal plane, cutting slots through one side of the nuts to the tangent line to the base of the screw threads farthest from the open end of the slots during the continuous travel of the nuts, and then applying pressure above the open end of the slots to effect closing movement of the slots during the continuous travel of the nuts.

---

2,391,713

**RECOVERY OF MAGNESIUM FROM VAPOR MIXTURES**

**Roy C. Kirk, Charles E. Nelson, and Thomas H. McConica, III, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**

No Drawing. Application September 20, 1944, Serial No. 554,976
5 Claims. (Cl. 75—67)

1. A method of producing magnesium which comprises heating a mixture of a magnesia-containing raw material and carbon to a temperature sufficient to form a vapor mixture of magnesium and carbon monoxide; passing the vapor mixture into intimate contact with a molten metal absorbent consisting of lead containing between about 2.5 and about 19 per cent by weight of dissolved magnesium in a contact zone maintained at an absolute pressure between 0.1 and about 2.5 inches of mercury, while maintaining the absorbent at a temperature above its freezing temperature but below about 650° C., whereby magnesium is dissolved in the absorbent; separating the magnesium-containing absorbent thus formed from the vapor mixture while the concentration of magnesium therein is still within the aforesaid range; and recovering magnesium from the absorbent.

---

2,391,714

**PROCESS OF RECLAIMING WASTE POLYCHLOROPRENES**

**Walter G. Kirby and Leo E. Steinle, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

No Drawing. Application September 26, 1941, Serial No. 412,463
4 Claims. (Cl. 260—92.7)

1. A process of reclaiming scrap containing elastic polychloroprene which comprises mixing therewith material containing cellulose fibers and heating the scrap while in comminuted condition and in admixture with said cellulose fibres in the presence of water, at a temperature in the range of from about 300° F. to about 420° F.

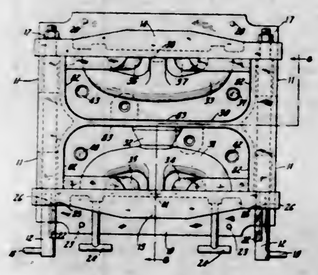
---

2,391,715

**CORE BOX**

**Elmer C. Kloss, Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio**

Application October 24, 1942, Serial No. 463,206
5 Claims. (Cl. 22—137)



4. A core box for making chain comprising a bottom wall having patterns for portions of a pair of connecting links secured thereto, side walls, movable front and rear walls having patterns for portions of precast links secured thereto, and means for controlling movement of said rear wall from the front of said core box comprising a pair of members extending through said front, side and rear walls and adapted to move with said rear wall relative to said front and side walls.

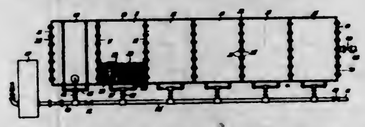


2,391,716

**FILTER**

**Robert J. Kempal, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware**

Application May 7, 1943, Serial No. 486,071
11 Claims. (Cl. 210—130)



1. A filter plant comprising a reception unit receiving the water to be filtered and a plurality of filtering units containing filter beds of discrete granular material, said reception and filter units being of independent but similar construction and adapted to be joined together in wall to wall relationship to form a unitary structure and composite operative plant, each of said units comprising a rectangular tank having a flat bottom and four upright walls, openings in the upper portion of two parallel walls of said tank, an opening in the lower part of another wall of said tank, and connecting means around each of said upper openings whereby adjacent units may be fastened together, means for closing the upper opening in the outer wall of said reception unit, a main conduit, branch conduits connecting said lower openings to said main conduit, a valve in each of said branch conduits, a valve in said main conduit downstream of the branch conduit leading to said reception unit and upstream of the first branch conduit leading to a filter unit, a waste outlet through the last of said upper openings in the direction of flow and means for closing said waste outlet.

---

2,391,717

**CRUTCH**

**Harold J. Lawrence, Milwaukee, Wis., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio**

Original application November 5, 1941, Serial No. 417,931, now Patent No. 2,366,972, dated January 9, 1945. Divided and this application February 16, 1943, Serial No. 476,100
3 Claims. (Cl. 311—11)



1. A limb supporting device for an operating and diagnostician's table comprising a saddle having an aperture presenting at least one flat face adapted to receive a supporting bar, and also presenting a supporting face above said flat face and inclined with respect to the flat face of said aperture, a fork rotatably journalled at the inclined face of said saddle and having a pair of arms extending therefrom in spaced relationship, and a trough-shaped member for supporting a patient's limb, said trough-shaped member being movably suspended in said fork.

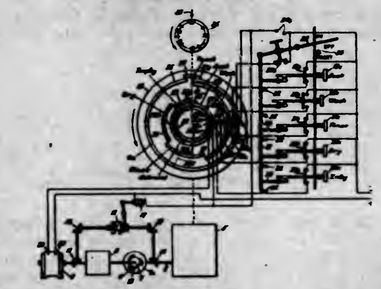
---

2,391,718

**WASHING MACHINE**

**Charles A. Lindemann, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**

Application December 12, 1942, Serial No. 468,798
9 Claims. (Cl. 161—1)



1. In a washing machine, a control means movable to positions causing corresponding washing operations, timing means for advancing the control means through sequential positions and thereby causing a timed sequence of operations, selector means operable to select in advance operations corresponding to part of the positions of the control means within the subsequent sequence, and means effective at the positions corresponding to the unselected operations for advancing the control means relative to the timing means through the positions corresponding to the unselected operations.

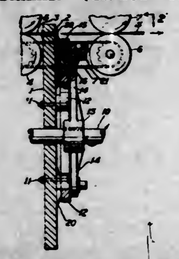
---

2,391,719

**APPARATUS FOR CUTTING FILAMENTS**

**Walter E. Llewellyn, Nutley, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

Application July 27, 1944, Serial No. 546,871
8 Claims. (Cl. 164—61)

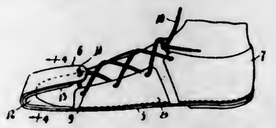


1. In an apparatus for cutting a continuous filament and comprising a cutting means and a means for delivering said filament to said cutting means, the combination of a plate having an opening therein through which said filament is delivered, a drive shaft at right angles to said plate, a sun gear mounted in fixed position parallel to said plate and concentrically with respect to said drive shaft, a spider comprising at least one leg and being fixedly mounted on said drive

shaft to rotate therewith, a planet gear rotatably mounted on said leg of said spider and meshing with said sun gear, a cutting knife carried by said planet gear and riding against said plate, the opening in said plate being in the path of said knife but removed from the path of said planet gear, and means acting on said planet gear in a direction perpendicular to said plate so as to hold said cutting knife yieldingly against said plate.

---

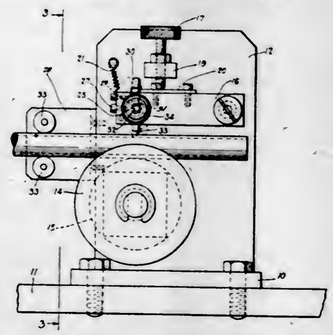
**2,391,720**
**FOOTWEAR**
**Samuel Ludwig, Toronto, Ontario, Canada**
**Application October 21, 1944, Serial No. 559,680**
**3 Claims. (Cl. 36—11.5)**



1. In a foot piece, an upper having a vamp open at the toe portion, a sole connected thereto having a flexible front end which projects forwardly of the open toe portion of said vamp and is of a length adapting it to be flexed upwardly and rearwardly over the vamp to compose a toe protector whose flexibility enables it to be adjusted to different foot lengths, means for securing said front end of the sole to the vamp and in any position of adjustment, and wall-forming elements at the sides of said front end of the sole.

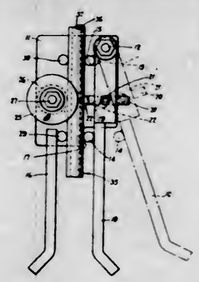
---

**2,391,721**
**INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,164**
**16 Claims. (Cl. 164—36)**



1. In a fixture for slitting jackets of rubber covered cables, a support, a cutting blade, an arm for pivotally mounting the cutting blade on the support, means spaced from the cutting blade for holding an article against the cutting blade whereby a portion of an article drawn therebetween is cut by the cutting blade, and a calibrated adjustment screw engaging the blade mounting means for selectively varying the distance between the cutting blade and the article holding means.

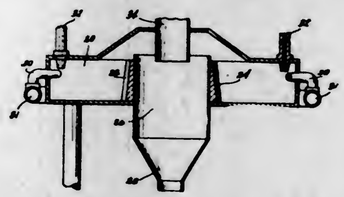
**2,391,722**
**PORTABLE INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,165**
**2 Claims. (Cl. 30—91)**



2. A hand tool for slitting the insulation of rubber jacketed cables or the like, comprising a plate, a roller rotatably mounted on the plate and having a concave groove in the periphery thereof, an elongated cutting blade having a cutting edge formed on one end thereof, a handle rigidly secured to the plate, a second handle pivotally secured to the plate for movement toward and away from the roller, means for adjustably securing the cutting blade to the second handle with the cutting edge projecting beyond the second handle, a pair of guide pins secured to the second handle at spaced points from the cutting blade, and a second pair of guide pins on the plate and spaced from the roller, said plate having an abutment formed thereon for limiting the movement of the second handle toward the first mentioned handle.

---

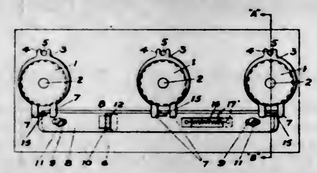
**2,391,723**
**METHOD FOR MAKING IRON OXIDE**
**Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application February 17, 1941, Serial No. 379,166**
**6 Claims. (Cl. 23—200)**



1. In a method of making powdered iron oxide, the steps comprising; treating particles of iron with high pressure steam at a sufficiently high temperature to cause an oxide coating to be formed at the surface of the particles of iron, mechanically removing the oxide coating by attrition through agitation by the high pressure steam, oxidizing newly exposed surfaces of the iron and simultaneously disintegrating the removed oxide coating to the size desired.



**2,391,724**
**LOCKING DEVICE**
**Roy Arthur Martin, Hernehurch, and Alan William Say, Upminster, England, assignors to The Plessey Company Limited, Ilford, Essex, England, a company of Great Britain**
**Application October 14, 1944, Serial No. 558,774**
**In Great Britain December 11, 1943**
**2 Claims. (Cl. 188—166)**



1. A locking device comprising a support, at least one rotary element carried by said support, a drum fixed to the rotary element, a spring clip of varying cross section terminating with legs at its free end, the main part of said spring clip embracing said rotary drum, parallel bars of unequal width provided with complementary lugs and intermediate apertures, the lugs being interposed between the legs of said clip, a rotary cam mounted in the apertures in said parallel bars, a control means associated with said cam for moving the parallel bars in opposite directions whereby the lugs integral with the parallel bars expand said spring clip, and said cam when actuated in the reverse direction removes the lugs of said bars out of engagement with the legs of said clip, thereby permitting contact between the spring clip and the drum so as to lock said rotary element against rotation.

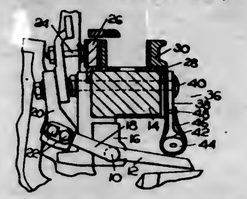
---

**2,391,725**
**DEAD-CENTERLESS CRANK GEAR**
**Georges Marquet, Lyon, France; vested in the Alien Property Custodian**
**Application April 28, 1942, Serial No. 440,865**
**In France November 12, 1941**
**9 Claims. (Cl. 74—36)**



1. In a dead-centerless crank gear, the combination of at least two separate coaxial cranks normally placed at 180° for alternately taking up a driving and a driven position upon rotation about the axis of the crank gear, said cranks being mounted for relative rocking movement about the said axis so as to be capable of turning at different speeds with respect to each other in the operative direction of rotation, and a rotatable driving organ eccentrically disposed with respect to the axis of the crank gear, said organ having an articulated driving connection with each of said cranks and being operative to alternately turn the inoperative crank past one dead-center position into a driving position before in the other dead-center position the operative crank changes from the driving state into the driven state.

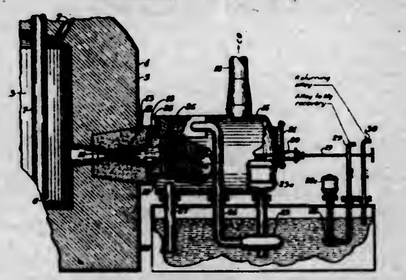
**2,391,726**
**DAGGER STOP**
**Albert Maurer, Ashton, R. I., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine**
**Application June 19, 1944, Serial No. 540,983**
**4 Claims. (Cl. 139—185)**



4. A dagger stop for looms comprising a rigid member having a groove in its lower end portion, a tubular resilient member fixed in said groove and arranged to be compressed by a dagger for limiting movement thereof, and a flexible strap for securing said resilient member in position.

---

**2,391,727**
**METHOD OF PRODUCING MAGNESIUM**
**Thomas H. McConica, III, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**Application September 20, 1944, Serial No. 554,975**
**10 Claims. (Cl. 75—67)**



1. In a method of producing magnesium, the steps which comprise heating a mixture of a magnesium oxide source material and a carbonaceous reducing agent at a pressure of at least about 0.5 atmosphere and at a temperature sufficient to form a vapor mixture of magnesium and carbon monoxide, expanding the vapor mixture from such pressure to a reduced pressure between 0.1 and about 2.5 inches of mercury absolute, and rapidly cooling the vapor mixture at the latter pressure to a temperature below about 650° C.

---

**2,391,728**
**PRODUCTION OF ALKALI METALS**
**Thomas H. McConica, III, Arthur A. MacPhail, and Roy C. Kirk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**Application October 30, 1944, Serial No. 561,132**
**14 Claims. (Cl. 75—66)**

1. In a method of making an alkali metal, the steps which comprise heating a mixture of a reducible alkali metal compound and a reducing agent at a pressure of at least about 0.5 atmosphere and at a temperature sufficient to form

shaft to rotate therewith, a planet gear rotatably mounted on said leg of said spider and meshing with said sun gear, a cutting knife carried by said planet gear and riding against said plate, the opening in said plate being in the path of said knife but removed from the path of said planet gear, and means acting on said planet gear in a direction perpendicular to said plate so as to hold said cutting knife yieldingly against said plate.

---

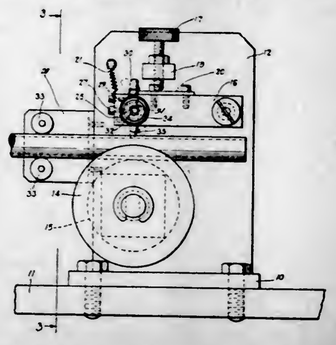
**2,391,720**
**FOOTWEAR**
**Samuel Ludwig, Toronto, Ontario, Canada**
**Application October 21, 1944, Serial No. 559,680**
**3 Claims. (Cl. 36—11.5)**



1. In a foot piece, an upper having a vamp open at the toe portion, a sole connected thereto having a flexible front end which projects forwardly of the open toe portion of said vamp and is of a length adapting it to be flexed upwardly and rearwardly over the vamp to compose a toe protector whose flexibility enables it to be adjusted to different foot lengths, means for securing said front end of the sole to the vamp and in any position of adjustment, and wall-forming elements at the sides of said front end of the sole.

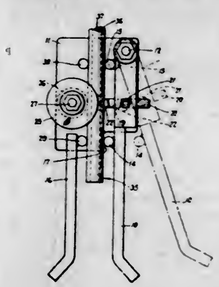
---

**2,391,721**
**INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,164**
**16 Claims. (Cl. 164—36)**



1. In a fixture for slitting jackets of rubber covered cables, a support, a cutting blade, an arm for pivotally mounting the cutting blade on the support, means spaced from the cutting blade for holding an article against the cutting blade whereby a portion of an article drawn therebetween is cut by the cutting blade, and a calibrated adjustment screw engaging the blade mounting means for selectively varying the distance between the cutting blade and the article holding means.

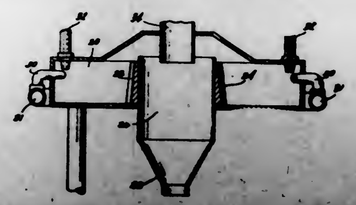
**2,391,722**
**PORTABLE INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,165**
**2 Claims. (Cl. 30—91)**



2. A hand tool for slitting the insulation of rubber jacketed cables or the like, comprising a plate, a roller rotatably mounted on the plate and having a concave groove in the periphery thereof, an elongated cutting blade having a cutting edge formed on one end thereof, a handle rigidly secured to the plate, a second handle pivotally secured to the plate for movement toward and away from the roller, means for adjustably securing the cutting blade to the second handle with the cutting edge projecting beyond the second handle, a pair of guide pins secured to the second handle at spaced points from the cutting blade, and a second pair of guide pins on the plate and spaced from the roller, said plate having an abutment formed thereon for limiting the movement of the second handle toward the first mentioned handle.

---

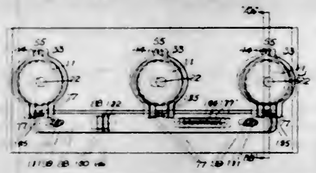
**2,391,723**
**METHOD FOR MAKING IRON OXIDE**
**Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application February 17, 1941, Serial No. 379,166**
**6 Claims. (Cl. 23—200)**



1. In a method of [illegible] the steps [illegible] with high [illegible] temperature [illegible] pressure [illegible] [illegible] [illegible]



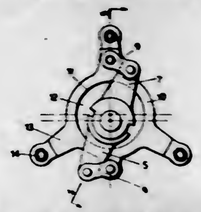
**2,391,724**
**LOCKING DEVICE**
**Roy Arthur Martin, Hounslow, and Allan William Sloy, Upminster, England, assignors to The Plessey Company (Company Limited), Ilford, Essex, England, a company of Great Britain**
**Application October 14, 1944, Serial No. 558,774**
**In Great Britain December 11, 1943**
**2 Claims. (Cl. 188—138)**



1. A locking device comprising a support, at least one rotary element carried by said support, a drum fixed to the rotary element, a spring clip of warying cross section terminating with lugs at its free end, the main part of said spring clip embracing said rotary drum, parallel bars of unequal width provided with complementary lugs and intermediate apertures, the lugs being interposed between the legs of said clip, a rotary cam mounted in the apertures in said parallel bars, a control means associated with said cam for moving the parallel bars in opposite directions whereby the lugs integral with the parallel bars expand said spring clip, and said cam when actuated in the reverse direction removes the lugs of said bars out of engagement with the legs of said clip, thereby permitting contact between the spring clip and the drum so as to lock said rotary element against rotation.

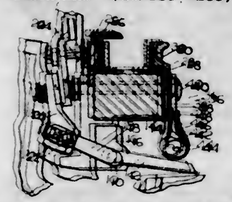
---

**2,391,725**
**DEAD-CENTERLESS CRANK GEAR**
**Georges Marquet, Lyon, France; vested in the Alien Property Custodian**
**Application April 28, 1942, Serial No. 440,865**
**In France November 12, 1941**
**9 Claims. (Cl. 74—36)**



1. In a dead-centerless crank gear, the combination of at least two separate coaxial cranks normally placed at 180° for alternately taking up a [illegible] a driven position upon rotation [illegible] [illegible]

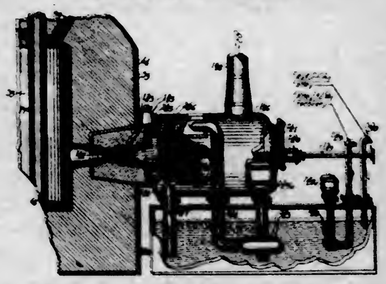
**2,391,726**
**DAGGER STOP**
**Albert Maurer, Addison, Ill., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine**
**Application June 19, 1944, Serial No. 540,983**
**4 Claims. (Cl. 139—195)**



4. A dagger stop for looms comprising a rigid member having a groove in its lower end portion, a tubular resilient member fixed in said groove and arranged to be compressed by a dagger for limiting movement thereof, and a flexible strap for securing said resilient member in position.

---

**2,391,727**
**METHOD OF PRODUCING MAGNESIUM**
**Thomas H. McDavid, III, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**Application September 20, 1944, Serial No. 554,975**
**10 Claims. (Cl. 75—67)**



1. In a method of producing magnesium, the steps which comprise heating a mixture of a magnesium oxide source material and a carbonaceous reducing agent at a pressure of at least about 0.8 atmosphere and at a temperature sufficient to form a vapor mixture of magnesium and carbon monoxide, expanding the vapor mixture from such pressure to a reduced pressure between 0.1 and about 2.5 inches of mercury absolute, and rapidly cooling the vapor mixture at the latter pressure to a temperature below about 650° C.

shaft to rotate therewith, a planet gear rotatably mounted on said leg of said spider and meshing with said sun gear, a cutting knife carried by said planet gear and riding against said plate, the opening in said plate being in the path of said knife but removed from the path of said planet gear, and means acting on said planet gear in a direction perpendicular to said plate so as to hold said cutting knife yieldingly against said plate.

---

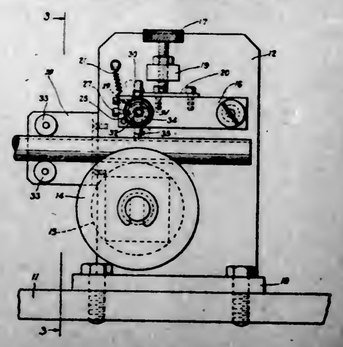
**2,391,720**
**FOOTWEAR**
**Samuel Ludwig, Toronto, Ontario, Canada**
**Application October 21, 1944, Serial No. 559,089**
**3 Claims. (Cl. 36—11.5)**



1. In a foot piece, an upper having a vamp open at the toe portion, a sole connected thereto having a flexible front end which projects forwardly of the open toe portion of said vamp and is of a length adapting it to be flexed upwardly and rearwardly over the vamp to compose a toe protector whose flexibility enables it to be adjusted to different foot lengths, means for securing said front end of the sole to the vamp and in any position of adjustment, and wall-forming elements at the sides of said front end of the sole.

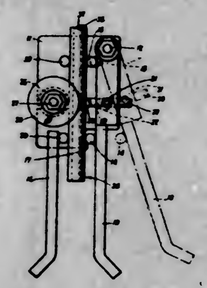
---

**2,391,721**
**INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,164**
**16 Claims. (Cl. 164—36)**



1. In a fixture for slitting jackets of rub[ber]-covered cables, a support, a cutting blade, [means] for pivotally mounting the cutting blade [on the] support, means spaced from the cutting [blade] holding an article against the cut[ting blade] whereby a portion of an [article] between it and the [cut]brated adjustment [of the] mounting [means] tance [between] holding means.

**2,391,722**
**PORTABLE INSULATION SLITTING TOOL**
**Carl V. Lundeen, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application April 8, 1944, Serial No. 530,165**
**2 Claims. (Cl. 30—91)**



2. A hand tool for slitting the insulation of rubber jacketed cables or the like, comprising a plate, a roller rotatably mounted on the plate and having a concave groove in the periphery thereof, an elongated cutting blade having a cutting edge formed on one end thereof, a handle rigidly secured to the plate, a second handle pivotally secured to the plate for movement toward and away from the roller, means for adjustably securing the cutting blade to the second handle with the cutting edge projecting beyond the second handle, a pair of guide pins secured to the second handle at spaced points from the cutting blade, and a second pair of guide pins on the plate and spaced from the roller, said plate having an abutment formed thereon for limiting the movement of the second handle toward the first mentioned handle.

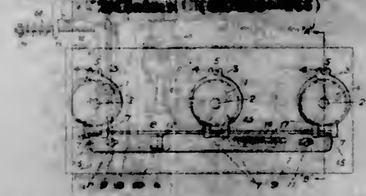
---

**2,391,723**
**METHOD FOR MAKING IRON OXIDE**
**Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application February 17, 1941, Serial No. 379,166**
**6 Claims. (Cl. 23—200)**





**2,391,724**
**GRINDING [MACHINE]**
**Roy [illegible], and Allan Wilkinson, Leeds, England, assignors to The Fleecy Company Limited, Ilkley, Yorkshire, England, a company of Great Britain**
**Application [illegible], Serial No. 556,774**
**In Great Britain [illegible], 1943**
**[illegible] (Cl. [illegible])**



1. A locking device comprising a support, at least one rotary element carried by said support, a [member] fixed to the rotary element, a spring clip [illegible] cooperating with legs at [illegible] ends, the [illegible] of said spring clip [illegible] said rotary [illegible], parallel bars of [illegible] with complementary lugs [illegible], the bars being interposed between the legs of said clip, a rotary cam [illegible] in the [illegible] said parallel bars, [illegible] connected with said cam for [illegible] the parallel bars in opposite directions [illegible] with the parallel bars [illegible] said cam when actuated in the [illegible] direction removes the lugs [illegible] of engagement with the legs of [illegible] thereby permitting relative movement between the [illegible] and the [illegible] to lock said rotary element against rotation.

---

**2,391,725**
**[illegible] GEAR**
**[illegible], Lyon, France; vested to the Alien Property Custodian**
**Application April 28, 1942, Serial No. 440,585**
**In France November 12, 1941**
**5 Claims. (Cl. 74—96)**



[illegible] ans
[illegible] for
[illegible] r bed
[illegible] cam,
[illegible] n cam
[illegible] oller cam,
[illegible] said carrier
[illegible] nd grinding
[illegible] ction to con-
[illegible] rel against the
[illegible] cam

**2,391,726**
**DAGGER STOP**
**Albert Maurat, Ashton, R. I., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine**
**Application June 10, 1944, Serial No. 540,983**
**4 Claims. (Cl. 139—185)**



4. A dagger stop for [illegible] member having a groove [illegible] said a tubular resilient mem[illegible]ner [illegible]ses and arranged to be co[illegible] limiting movement the[illegible] for securing said resi[illegible]

---

[illegible],735
[illegible]E MECH[illegible] FOR
[illegible] Ohio, [illegible]y, Cleve-
[illegible] the [illegible]
[illegible] 3, 1943, Serial No. 418,881
[illegible] (Cl. 180—17)



4. A control for a drive having a driving [illegible] ment, a differential mechanism connected [illegible] with and a pair of driven members coup[illegible] said mechanism, a pump unit, a motor unit [illegible] atively connected to said pump unit to be [illegible] thereby, a secondary differential mechani[illegible] ected to said motor unit, means co[illegible] elements of said secondary mechani[illegible] driven members, and means forming [illegible] least one of said units to control [illegible] timing thereof and [illegible] to be rendered inopera[illegible] motor unit to r[illegible] directions; [illegible] corner con[illegible]

shaft to rotat
ably mounted
ing with said
by said planet
the opening
said knife bu
planet gear,
gear in a dir
so as to hold
said plate.

Samuel Lu
Application O
3

1. In a foo
open at the t
having a flex
wardly of the
is of a length
and rearward
protector wh
justed to diff
ing said fron
in any positi
elements at
sole.

INS
Carl V. Lund
ern Electri
N. Y., a co
Applicatio
1

1.



MACHINE
W. Va.
No. 559,691
)



scribed, a floor
ected in verti-
the floor plate,
ally mounted
ended bearing
bearing sup-
gh their open
ly and slid-
for

thereto; and means forming a seat against which said disc rests when said valve is moved to the



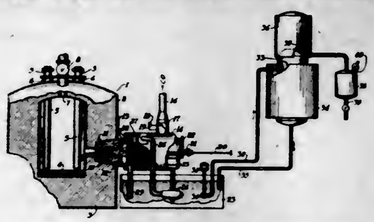
open position, whereby fluid flowing toward said valve member in the said inner conduit passes through said orificed disc.

---

2,391,735
**STEERING CONTROL MECHANISM FOR VEHICLES**
Elias Orshansky, Jr., Cleveland Heights, Ohio, assignor to The Acroterque Company, Cleveland, Ohio, a corporation of Connecticut
Application November 13, 1941, Serial No. 418,881
7 Claims. (Cl. 180—17)



alkali metal vapor, expanding the resulting vapor from such pressure to a reduced pressure between about 0.4 and about 4 inches of mer-



cury absolute, and rapidly chilling the vapor at the latter pressure to a temperature such as to condense alkali metal.

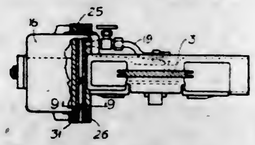
---

**2,391,729**
**PURIFICATION OF NAPHTHENIC ACIDS**
**Wilmer E. McCorquodale, Jr., Ardentown, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**Application October 14, 1942, Serial No. 462,039**
**7 Claims. (Cl. 260—514)**

1. In the purification of naphthenic acids by solvent extraction, the method which comprises feeding crude naphthenic acids containing hydrocarbon oil to a countercurrent extraction zone between its ends, feeding into one end of said zone a solvent having preferential solvency for and incomplete miscibility with the naphthenic acids and comprising at least a major percentage of polar organic liquid, the solvent flowing through said zone countercurrently to the feed, withdrawing from the other end of the zone a saturated solvent phase and from the solvent-feed end of the zone a saturated raffinate phase, removing solvent from the saturated solvent phase to thereby separate a naphthenic acids-rich extract, returning as reflux to the solvent phase-withdrawal end of the extraction zone a part of said extract together with a minor proportion of solvent, and removing solvent from the raffinate phase to yield an oil-rich raffinate.

---

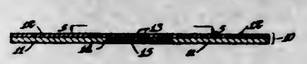
**2,391,730**
**LUBRICATING ARRANGEMENT FOR POWER DRIVEN SAWS**
**William T. Melvin and René Louis Rougemont, Worcester, Mass., assignors to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts**
**Application January 6, 1943, Serial No. 471,432**
**2 Claims. (Cl. 143—32)**



1. A lubricating arrangement for chain saws comprising, in combination, a cutter bar, a chain saw driven thereon, a lubricant reservoir offset from one end of said cutter bar, said reservoir providing spaced side walls, connections extending between said reservoir and one side of said cutter bar, means for maintaining lubricant within said reservoir under pressure, ports at opposite sides of said reservoir leading to said connections, a valve member extending entirely across and within said reservoir providing passages for conducting lubricant to the saw through one or the other of said ports and connections, in accordance with which port is below the level of lubricant within the reservoir, said valve member also extending through both side walls of said reservoir, and an operating member on each end of said valve member, outside the corresponding side wall, for turning said valve member into different positions.

---

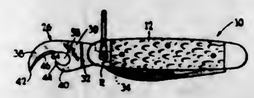
**2,391,731**
**SPLICED ABRASIVE BELT, BAND, AND THE LIKE**
**Theodore J. Miller, St. Paul, and Richard G. Riedesel, North St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**
**Application May 17, 1943, Serial No. 487,226**
**16 Claims. (Cl. 51—188)**



1. An endless abrasive belt of flexible abrasive-coated sheet material comprising a backing sheet and abrasive grains adhesively secured thereto by a coating of binder adhesive, and having a joint formed by two abutting complementary shaped ends with a metal screen coupling element embedded in the said backing at the end portions and extending longitudinally of the belt between the ends, and which is embedded in the said backing on either side of the joint, thus holding said ends in the said abutting position, and a layer of adhesive on said backing and in contact with said metal screen, the thickness of the end portions of said belt adjacent said joint being substantially uniform and substantially the same as that of the rest of said abrasive belt.

---

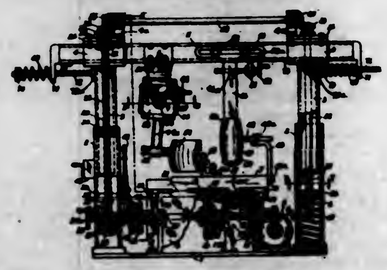
**2,391,732**
**CAN OPENER**
**Michael A. Mirando, Providence, R. I., assignor to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island**
**Application November 7, 1944, Serial No. 562,289**
**11 Claims. (Cl. 30—22)**



11. A can opener of the type which is adapted to cut downwardly through a can top and leave a narrow slit whose exposed edges are smooth, said can opener comprising a base having a cutting arm and a spaced coplanar can engaging arm both extending frontwardly therefrom, said cutting arm being longer than said can engaging arm and the arms being spaced apart adjacent said base to provide a frontwardly opening aperture between said two arms in which the rim of a can is adapted to be freely received, both of said arms extending toward each other, said cutting arm being topmost and extending downwardly and said can engaging arm extending upwardly, the tip of the cutting arm being considerably below the tip of the can engaging arm so as to enable a cutting stroke of the can opener to be terminated when the can opener is about horizontal.



**2,391,733**
**GRINDING OR ABRADING MACHINE**
**Harry Moreland, Huntington, W. Va.**
**Application October 21, 1944, Serial No. 559,091**
**4 Claims. (Cl. 51—100)**



1. In a machine of the kind described, a floor plate, tubular elevator columns erected in vertical alignment at each side of the floor plate, tubular bearing supports telescopically mounted in the elevator columns, open-ended bearing casings on the upper ends of the bearing supports in horizontal alignment through their open ends, a carrier bar passed horizontally and slidably through the bearing casings, means for simultaneously raising and lowering the bearing supports and carrier bar, a grinding motor pivotally suspended from the carrier bar inwardly of the bearing supports, the drive shaft of the motor being extended vertically downward and arranged to oscillate in the vertical plane passed axially through the bearing supports and elevator columns, a grinding wheel keyed upon the lower pendant end of the drive shaft, a cam hanger depended slidably from the carrier bar inwardly of the bearing supports and in spaced relation to the grinding motor and grinding wheel, a roller cam journalled at the lower end of the cam hanger in horizontal alignment with the said grinding wheel, a bench mounted upon the floor plate underneath the grinding wheel and roller cam, a planer bed reciprocatingly mounted upon the bench to move horizontally and transversely below the grinding wheel and roller cam, means for reciprocating the planer bed, means for anchoring a piece of work upon the planer bed between the grinding wheel and roller cam, means for mounting a profile or pattern cam upon the planer bed laterally of the roller cam, and means for resiliently urging the said carrier bar and pendant grinding motor and grinding wheel and the roller cam in a direction to contact and press the grinding wheel against the work upon the planer bed and the roller cam against the profile cam upon the planer bed.

---

**2,391,734**
**PUMPING SYSTEM AND APPARATUS**
**Alfred E. Nittka, Cleveland, Ohio**
**Application February 12, 1945, Serial No. 577,479**
**2 Claims. (Cl. 103—230)**

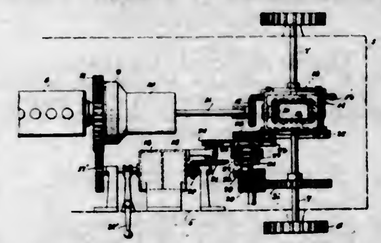
1. In a pumping system, means forming two tubular conduits, said conduits being concentrically arranged, and the inner conduit having a discharge opening within the outer conduit; a valve seat about said discharge opening; a valve member normally biased to close said seat; means for forcing fluid through the outer one of said conduits, said valve member having a stem connected thereto and extending in the inner of said conduits, said stem having an orificed disc attached thereto; and means forming a seat against which said disc rests when said valve is moved to the



open position, whereby fluid flowing toward said valve member in the said inner conduit passes through said orificed disc.

---

**2,391,735**
**STEERING CONTROL MECHANISM FOR VEHICLES**
**Elias Orshansky, Jr., Cleveland Heights, Ohio, assignor to The Acroterque Company, Cleveland, Ohio, a corporation of Connecticut**
**Application November 13, 1941, Serial No. 418,881**
**7 Claims. (Cl. 180—17)**



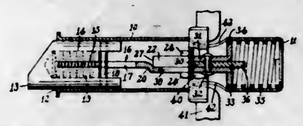
4. A control for a drive having a driving element, a differential mechanism connected therewith and a pair of driven members coupled to said mechanism, a pump unit, a motor unit operatively connected to said pump unit to be driven thereby, a secondary differential mechanism connected to said motor unit, means coupling the elements of said secondary mechanism to said driven members, and means forming a part of at least one of said units to control the capacity and timing thereof and whereby such one unit may be rendered inoperative and optionally to cause said motor unit to rotate in either one of two different directions; said driven members under the former condition of the motor unit being substantially synchronized in their rotation and under the latter conditions of operation of said motor unit being relatively accelerated and retarded with respect to each other.

---

**2,391,736**
**SCREEN DOOR LATCH**
**Samuel Oxhandler, Flushing, N. Y., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut**
**Application February 22, 1944, Serial No. 523,455**
**11 Claims. (Cl. 292—169)**

1. A latch bolt construction comprising a casing, a latch bolt and retractor therefor slidably

mounted in the casing, said retractor comprising a flat link connected to the bolt at its forward end, said link having an opening therein and a



cam surface at one side of said opening, and a plate secured flatwise to said link adjacent said cam surface to increase the thickness of the link.

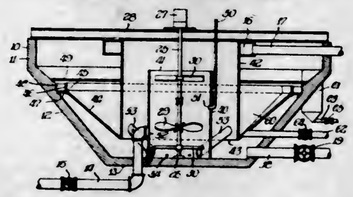
---

2,391,737
**LEAK SEALING COMPOUND**
**Arthur C. Pabst, Douglaston, Long Island, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
No Drawing. Application June 24, 1942, Serial No. 448,293
2 Claims. (Cl. 106—33)

1. A water dispersible radiator stop-leak composition for use in automotive cooling systems and the like, comprising a calcium salt of lignosulphonic acid and ground asbestos, said salt having approximately 60% solids and the composition containing said constituents substantially in the proportions of approximately 50 parts calcium salt and approximately 3 parts ground asbestos.

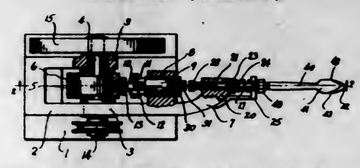
---

2,391,738
**LIQUID TREATING APPARATUS**
**Frank D. Prager, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware**
Application December 8, 1941, Serial No. 422,094
12 Claims. (Cl. 210—16)



1. In liquid treating apparatus of the type wherein liquid to be treated is mixed with and subjected to reaction in and with a circulating slurry comprising suspended particles separated and accumulated from previously treated liquid, a tank, a partition structure in said tank forming therein a central mixing and reaction chamber, an outlet communicating said central chamber with the lower central portion of said tank, a power driven stream projecting impeller in said mixing chamber, a second partition structure secured to said first partition structure and forming a channel for liquid flow leading from said outlet and extending upwardly and outwardly to adjacent the periphery of the tank, a discharge opening from the upper end of said channel adjacent the periphery of the tank, said opening being at a level above that of said outlet, an inlet to said mixing and reaction chamber from an elevation in said tank below said discharge opening, means for introducing liquid to be treated and a precipitating reagent into the mixing and reaction chamber, means for withdrawing clarified liquid from the upper portion of said tank, and a waste discharge from said tank.

2,391,739
**OYSTER OPENING MACHINE**
**Geronimo R. Ragupos, Spokane, Wash.**
Application April 29, 1944, Serial No. 533,275
4 Claims. (Cl. 17—9)



1. In an oyster opening machine, a slide mounted for limited endwise movement, a spring disposed to act against the slide to return it from an extended to its retracted position, means for placing the spring under compression or for releasing the compression, a reciprocally operable hammer positioned to deliver impinging blows against the inner end of the slide, means for reciprocating the hammer, and a chisel-like tool mounted at the outer end of the slide to engage with the oyster to be opened.

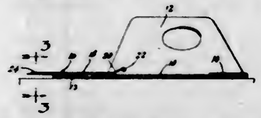
---

2,391,740
**SENSITIZATION OF HYDROGEN BROMIDE CATALYZED OXIDATION REACTIONS**
**John H. Raley and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
No Drawing. Application January 17, 1944, Serial No. 518,665
11 Claims. (Cl. 260—533)

10. In a process for the controlled oxidation of organic compounds to produce oxygenated compounds having at least the same number of carbon atoms per molecule as the starting organic compound, the step of subjecting a hydrocarbon, at a temperature of between about 100° C. and the temperature at which spontaneous combustion will occur, to the action of oxygen in the presence of hydrogen bromide and of a minor amount of a bromide of a straight-chain paraffinic hydrocarbon.

---

2,391,741
**RAZOR BLADE HOLDER FOR SHARPENING**
**Peter C. Rhegas, Detroit, Mich.**
Application April 3, 1944, Serial No. 529,318
7 Claims. (Cl. 51—221)



1. A sharpening device for holding a razor blade during honing comprising a flat plate like base provided with a finger gripping portion and with a blade positioning part, said base having a flat bottom surface adapted to rest flat upon a honing surface and having a flat upper surface portion of a length to support a razor blade throughout its length and adapted to support said razor blade engaged with said part and projecting forwardly beyond the forward edge of the base and with the forwardly projecting portion normally occupying a plane parallel to the plane of the base and spaced above the flat surface upon which the base rests, said forwardly projecting portion of the blade adapted to be depressed to bring its beveled edge adjacent to its forward margin into honing contact with the flat surface upon which the base rests.



---

2,391,742
**SYNTHETIC RUBBER COMPOSITIONS**
**Alvin V. Roberts, West Haven, Conn., assignor to General Electric Company, a corporation of New York**
No Drawing. Application April 1, 1943, Serial No. 481,460
15 Claims. (Cl. 260—79)

1. A vulcanizable composition comprising (1) an elastic, linear hydrocarbon copolymer of a major proportion of branched-chain mono-olefine and a minor proportion of conjugated diolefine, said copolymer of (1) having incorporated therein (2) p-quinone dioxime, (3) a peroxide, (4) sulfur and (5) a compound of the class consisting of thiurams and dithiocarbamates, the total amount of the ingredients of (2), (3), (4) and (5) and their relative proportions being such that the said composition is capable of being cured at 300° F. with freedom from scorch at 220° F.

---

2,391,743
**TREATMENT OF STEROLS**
**Jacob Rosin, New York, N. Y.**
No Drawing. Application November 4, 1944, Serial No. 562,040
1 Claim. (Cl. 260—397.2)

The method of treating sterols in order to form and isolate chromium oxychloride sterols, which comprises reacting sterols with chromium oxychloride in the presence of a non-polar solvent for both the sterols and the chromium oxychloride, which solvent is resistant to chromium oxychloride and inert to the chromium oxychloride sterols.

---

2,391,744
**ELECTRIC RESISTANCE GRID**
**Leonard Satchwell, Marlow, England**
Application May 15, 1943, Serial No. 487,142
In Great Britain June 2, 1942
6 Claims. (Cl. 201—69)



1. An electric resistance grid comprising a plurality of individual straight substantially flat metal bars each provided intermediate the ends with spacing means struck from the bars, such spacing means presenting welding surfaces, such surfaces welded one to another to provide a substantially zigzag form unsupported except at its ends.

---

2,391,745
**CHLORINATION OF PYRAZINE**
**John M. Sayward, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
No Drawing. Application August 8, 1944, Serial No. 548,627
2 Claims. (Cl. 260—250)

1. In a method of making 2-chloropyrazine the steps which comprise reacting in vapor state a mixture of chlorine and pyrazine in the presence of water vapor at a temperature between 300° and 600° C. for a time sufficient to form 2-chloropyrazine and insufficient to cause decompositions and recovering the thus formed 2-chloropyrazine.

---

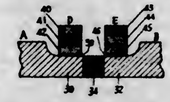
2,391,746
**BED OR SIMILAR BODY RESTING APPLIANCE**
**Abraham W. Schenker, New York, N. Y.**
Application June 12, 1942, Serial No. 446,721
4 Claims. (Cl. 5—60)



3. In a bed or similar body resting appliance of the class described, the combination of a body supporting unit, said unit comprising a frame having longitudinal side rails, a head rail and a foot rail, brackets fixedly attached to each of said side rails, said brackets comprising upper walls, lower walls and intermediate walls, apertures in said upper and intermediate walls, the said apertures being in alignment, a plurality of inverted U-shaped members of unyielding material comprising horizontal portions and depending leg portions, said horizontal portions being transversely disposed with respect to said frame, said leg portions being adapted to be freely received in corresponding pairs of said aligned apertures on each bracket on each side rail, the bottom of said leg portions being adapted to freely rest upon the lower walls of said brackets, the said leg portions of certain U-shaped members being of different length from other U-shaped members so as to dispose said horizontal portions at different levels, the sequence of adjacently disposed different sized U-shaped members being determined by the posterior aspect of the body of the user.

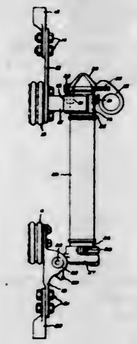
---

2,391,747
**PENSTOCK AND METHOD OF FABRICATING PENSTOCKS**
**Earl E. Schoessow, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey**
Application August 26, 1942, Serial No. 456,269
4 Claims. (Cl. 285—111)



2. In a welded tubular structure, adjacent tubular sections of heavy wall thickness, said sections having ends of reduced thickness and smaller outside diameters, said reduced ends being of such thickness that the sections may be joined at the ends by field welds without subsequent heat treatment, the outside surfaces of said reduced end sections having cylindrical surfaces, reinforcing hoops tightly fitting the outer surfaces of the reduced end portions, and circumferential welds joining the reduced ends of the tubular sections at positions between the reinforcing hoops of adjacent sections.

2,391,748
CIRCUIT INTERRUPTER
Carl L. Schuck, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York
Application December 21, 1942, Serial No. 469,628
5 Claims. (Cl. 200—114)



1. In combination with a fuse comprising a casing, a ferrule at each end thereof, a pair of stationary terminal members, means electrically connected to one of said ferrules for electrically connecting said one ferrule and one of said terminal members, said other terminal member comprising a U-shaped spring like contact member for engaging substantially the entire length of said other ferrule, and a C-shaped clamp including an operating eye adapted to be clamped to said other ferrule without in any way interfering with the contact between said ferrule and said U-shaped contact member.

---

2,391,749
BITUMINOUS COMPOSITION AND METHOD OF MAKING THE SAME
Purdum M. Snyder, Ben Avon, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 23, 1941, Serial No. 408,133
2 Claims. (Cl. 106—269)

1. As a new article of manufacture, a flame retarding thermoplastic bituminous composition particularly adapted for use as a protective coating for building members and possessing the property when exposed to direct flame of forming on the surface thereof a carbonaceous ash film of sufficient density and in sufficient amount to form an effective air seal covering the underlying bituminous material to thereby prevent rapid propagation of flame, consisting of a bituminous material having a melting point of at least 80° F. and being substantially solid and non-pourable at room temperature and selected from the group consisting of those natural asphalts, gilsonite, steam reduced and air blown asphalts from petroleum residua, coal tar pitches, stearine pitches, and mixtures thereby which are characterized by their non-greasy and non-oily appearance and feel, and having incorporated therein a mixture of fifty per cent barium soap and fifty per cent zinc soap in an amount in the range of three to fifteen per cent by weight of the bituminous composition, said flame retarding bituminous composition being further characterized by its ability to maintain substantial predetermined physical characteristics upon cooling after having been subjected to heating to elevated temperatures.

---

2,391,750
BITUMINOUS COMPOSITION
Purdum M. Snyder, Ben Avon, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Original application August 23, 1941, Serial No. 408,133. Divided and this application October 20, 1942, Serial No. 462,747
2 Claims. (Cl. 106—15)

1. As a new article of manufacture, a flame retarding thermoplastic bituminous composition possessing the property when exposed to direct flame of forming on the surface thereof a carbonaceous ash film of sufficient density and in sufficient amount to form an effective air seal covering the underlying bituminous material to thereby prevent rapid propagation of flame, consisting of a bituminous material selected from the group consisting of those natural asphalts, gilsonite, steam reduced and air blown asphalts from petroleum residua, coal tar pitches, stearine pitches and mixtures thereof which are characterized by their non-greasy and non-oily appearance and feel, and having incorporated therein about eight percent of a mixture of barium and zinc soaps in equal proportion and about three percent of iron stearate based on the weight of the bituminous composition, said flame retarding bituminous composition being further characterized by its ability to maintain substantial predetermined physical characteristics upon cooling after having been subjected to heating to elevated temperatures.

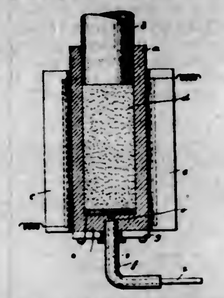
---

2,391,751
BITUMINOUS COMPOSITION
Purdum M. Snyder, Ben Avon, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Original application August 23, 1941, Serial No. 408,133. Divided and this application October 20, 1942, Serial No. 462,748
1 Claim. (Cl. 106—15)

As a new article of manufacture, a flame retarding thermoplastic bituminous composition possessing the property when exposed to direct flame of forming on the surface thereof a carbonaceous ash film of sufficient density and in sufficient amount to form an effective air seal covering the underlying bituminous material to thereby prevent rapid propagation of flame, consisting of a bituminous material having a melting point of at least 80° F. and being substantially solid and non-pourable at room temperature and selected from the group consisting of those natural asphalts, gilsonite, steam reduced and air blown asphalts from petroleum residua, coal tar pitches, stearine pitches, and mixtures thereof which are characterized by their non-greasy and non-oily appearance and feel, and having incorporated therein barium and zinc soaps and an aluminum soap, the latter being in a minor proportion as compared to the combination of the barium and zinc soaps, the total soap content being within the range of from 3 to 15% of the weight of the bituminous composition, said flame retarding bituminous composition being further characterized by its ability to maintain substantial predetermined physical characteristics upon cooling after having been subjected to heating to elevated temperatures.



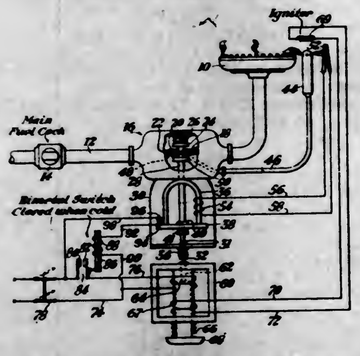
2,391,752
METHOD FOR TREATING ALUMINUM OR ALUMINUM ALLOY SCRAP
Max Stern, Kew Gardens, N. Y.
Application May 30, 1942, Serial No. 445,190
3 Claims. (Cl. 207—10)



1. Method of producing final articles, for instance tubes, rods and structural profiles from aluminum and aluminum alloy scrap comprising compressing the scrap by maintaining the same at a temperature of about 300° C. and at a pressure of approximately 3–8 tons per square inch, disrupting thereby the oxide skins coating the scrap particles and creating fresh metallic contact faces, thereupon increasing the temperature to about 350 to 450° C. and the pressure to about 18–40 tons per square inch and converting said bodies by maintaining these conditions directly into the final articles.

---

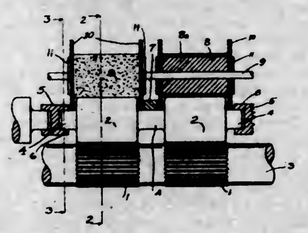
2,391,753
SAFETY CONTROL AND IGNITION SYSTEM
Charles K. Strobel, Pittsburgh, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application May 4, 1945, Serial No. 591,959
7 Claims. (Cl. 158—117.1)




1. A safety control system for fuel burners having main and pilot burners and a source of electrical energy, comprising in combination, electromagnetic control means biased to a fuel flow preventing position, electromagnetic reset means for overcoming said bias and resetting said control means in a fuel flow permitting position, an energizing circuit including the source and said reset means, means responsive to the presence of a flame at the pilot burner for energizing said control means sufficiently to hold the same in said fuel flow permitting position thereof, switching means having contacts for opening and closing said circuit, thermally responsive means adapted when heated for operating said switching means to open said contacts, an electric heater for said thermally responsive means, and means for establishing another energizing circuit including the source and said heater upon completion of said resetting operation.

---

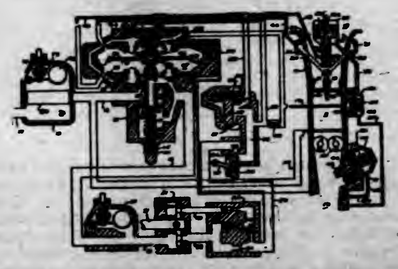
2,391,754
ROLL CLEANING APPARATUS FOR SPINNING FRAMES AND THE LIKE
Meinard F. Thoma, Fitchburg, Mass.
Application September 13, 1943, Serial No. 502,158
2 Claims. (Cl. 19—140)



1. Apparatus of the class described comprising in combination, drawing rolls having cylindrical working surfaces, with reduced necks therebetween, cleaning rolls bearing on said working surfaces for the removal of fly and lint therefrom, cleaning disks of soft yieldable material mounted at the ends of said cleaning rolls, and of larger diameter than said rolls, and reinforcing disks of stiff material of less diameter than said cleaning rolls for holding the peripheries of said cleaning disks in continuous wiping engagement with said roll necks.

---

2,391,755
CARBURETOR
Harold F. Twyman, Dayton, Ohio, assignor to Chandler-Evans Corporation, South Meriden, Conn., a corporation of Delaware
Application May 11, 1943, Serial No. 486,599
11 Claims. (Cl. 261—69)



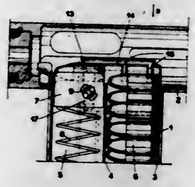
1. Fluid flow measuring means, comprising in combination, a conduit for the fluid whose flow is to be measured, first Venturi means in said conduit, passage means having a plurality of spaced apertures opening into the throat of said Venturi means so that the pressure in said passage means is substantially equal to the average pressure at said throat, a second conduit connecting said passage means with a point in said first conduit

spaced from said Venturi means, second Venturi means in said second conduit, valve means for controlling the flow of fluid thru said second conduit, means responsive to the temperature of the fluid at the entrance to said first Venturi means and to a pressure substantially equal to the static pressure of the flowing fluid at the throat of said first Venturi means for operating said valve means, differential pressure measuring means, and means connecting said measuring means to measure the pressure differential between the throat of said second Venturi means and said point.

4. A carburetor, comprising an air conduit of rectangular cross-section, first Venturi means comprising a plurality of parallel spaced hollow bars extending transversely of said conduit, each said bar having a plurality of spaced apertures opening into the throat of said Venturi means so that the pressure within said bar is substantially equal to the average pressure at said throat, a housing positioned substantially centrally of said first conduit upstream from said first Venturi means in heat conducting relationship with the air flowing therethru, a sealed bellows in said housing and responsive to the pressure therein, a first passage connecting the interiors of said bars and the interior of said housing, a second passage connecting the interior of said housing with a point in said air conduit spaced from said first Venturi means, second Venturi means in said second passage having its discharge end closely adjacent said housing, a valve operated by said bellows and cooperating with said second passage at the discharge end of said second Venturi means for controlling the flow of air from said second passage into said first passage, and means responsive to the difference between the pressure at said point in said air conduit and the pressure at the throat of said second Venturi means for controlling the flow of fuel to said engine.

---

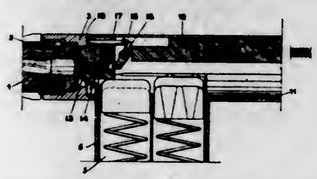
**2,391,756**
**MAGAZINE FOR FIREARMS**
**Josef Vesely, Hoddesdon, England**
**Application January 23, 1942, Serial No. 427,957**
**In Great Britain December 31, 1940**
**12 Claims. (Cl. 42—18)**



1. A fire-arm having a magazine housing, a detachable magazine insertable in said housing and including a plurality of cartridge holding compartments, feeding means in each magazine compartment for feeding the cartridges therefrom, movable cartridge retaining means carried by said housing and having a part disposed adjacent the discharge end of one of said compartments to engage in one position thereof the leading cartridge in said one compartment to thereby prevent emergence of cartridges therefrom, and a spring loaded plunger arranged to be maintained under load whilst cartridges are being fed by the feeding means in another compartment and to be freed as said last mentioned feeding means takes the position corresponding to exhaustion of said other compartment, to engage and move the said cartridge retaining means into a position permitting emergency of cartridges from said one compartment.

---

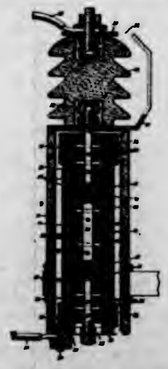
**2,391,757**
**FIRING MECHANISM FOR AUTOMATIC GUNS**
**Josef Vesely, Hoddesdon, England**
**Application March 4, 1942, Serial No. 433,322**
**In Great Britain June 10, 1941**
**2 Claims. (Cl. 42—3)**



1. A sub-machine gun of the dynamic type comprising in combination, a tubular gun body, a breech block axially slidable within the said body, a firing pin mounted for limited axial sliding movement in the forward portion of the said breech block, spring means urging said firing pin in a rearward direction, a double ended rockable lever pivoted between its ends in the forward part of said breech block and having one end freely engaging with the rear end of said firing pin for urging the latter forwardly, an easily replaceable actuating rod mounted, independently of said lever, for axial sliding movement in the forward portion of the said breech block and arranged to cooperate at its rear end with the other end of said lever, and an abutment upon the body of said gun arranged to engage, as the breech block approaches its final forward position, the forward end of the said actuating rod in order to slide the same rearwardly in the breech block for actuating the said rockable lever and firing pin.

---

**2,391,758**
**PROTECTIVE DEVICE**
**Elmer J. Wade and Joseph Horvath, Jr., Pittsfield, Mass., assignors to General Electric Company, a corporation of New York**
**Application May 9, 1942, Serial No. 442,338**
**13 Claims. (Cl. 175—30)**

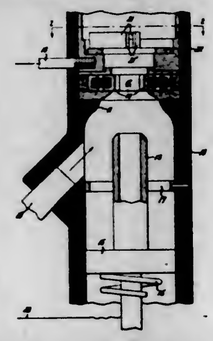


1. A protective device including a substantially rod-shaped metal electrode, a second metal electrode having a tubular shape spaced from and surrounding said first electrode to form a gap, and a plurality of substantially concentric insulating radially spaced cylinders between said electrodes, said cylinders formed of an insulating material which gives off an arc-extinguishing gas when subjected to the heat of an electric arc, said cylinders having staggered openings defining a circuitous arc path through which an arc may strike between said electrodes.



---

**2,391,759**
**ELECTRIC CIRCUIT INTERRUPTER**
**Thomas W. Wilcox, Harrow, England, assignor to General Electric Company, a corporation of New York**
**Application August 9, 1943, Serial No. 497,914**
**In Great Britain August 11, 1942**
**4 Claims. (Cl. 200—146)**

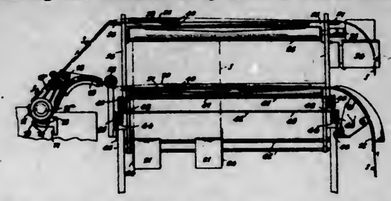


1. In an electric circuit breaker, a pair of relatively movable contacts comprising a fixed contact and a movable contact, means for producing relative separation of said contacts to draw an arc therebetween, a conducting member electrically connected to said fixed contact and normally carrying no current, a plurality of arcing members arranged with their longitudinal axes in a plane at right angles to the path of said movable contact and being mechanically supported and electrically connected to said conducting member, said arcing members being disposed tangentially to a circle concentric with the axis of said path of said movable movable contact, and means for transferring said arc from said fixed contact to one of said arcing members, the arrangement of said arcing members with respect to each other and the contacts being such that the path of the current flowing between said movable contact and said conducting member including said arc is in the form of a loop so that the electromagnetic force produced causes the arc roots to move from arcing member to arcing member thereby minimizing erosion of said members.

---

**2,391,760**
**RECORD AND CARBON STRIP CONTROL FOR WRITING MACHINES**
**Robert P. Willard, Lewiston, N. Y., assignor to Moore Business Forms, Inc., a corporation of Delaware**
**Application December 6, 1941, Serial No. 421,989**
**19 Claims. (Cl. 197—134)**

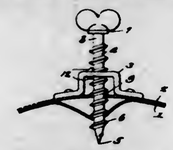
1. In a machine of the character described, in combination, means for feeding record strips into inscription receiving position, separate means positioned laterally outside of the course of said record strips and being continuously operated for feeding a transfer strip in transfer relation with said record strips, guide means for guiding the transfer strip from a course trans-



verse to that of said record strip into the course of said record strip, and means for adjusting said transfer strip feeding means to render it capable of feeding the transfer strip only during operation of the record strip feeding means.

---

**2,391,761**
**PIPE JOINT**
**Willis E. Winn, Huntington, Ind.**
**Application January 27, 1944, Serial No. 519,915**
**1 Claim. (Cl. 285—185)**



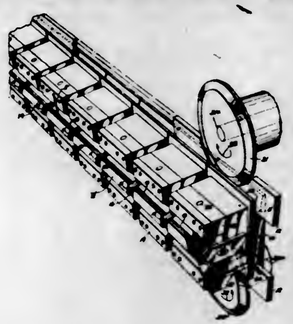
In a pipe joint, telescoped inner and outer pipe sections, a saddle secured to the outer section, and a screw equipped with a foot of such taper as to form a pipe-punch, the screw having a thread which engages the saddle, to advance the screw and operate the pipe-punch when the screw is rotated, the screw having a laterally-extended head, the thread terminating in spaced relation to the head, whereby the screw may be rotated freely, with the head in engagement with the saddle, the thread then constituting means for drawing outwardly, so much of the pipe material as may have been bulged inwardly during the operation of the pipe-punch, the saddle having an opening, shaped for the reception of the screw, the opening having a lateral, slot-like extension shaped for the reception of the thread, the thread constituting means for spreading portions of the saddle in opposite directions, to form a thread-receiving seat, when the rotation of the screw is initiated.

---

**2,391,762**
**WORK HOLDER FOR ARC-WELDING APPARATUS**
**John Raymond Wirt, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 20, 1944, Serial No. 559,582**
**3 Claims. (Cl. 219—17)**

1. A work-holder for use with arc-welding apparatus having means for moving work holders in end-to-end relation along a guiding track past an arc-welding electrode, said work-holder comprising a work-piece support having track-engaging provisions, means for securing a work-piece to the support, and a block of metal of high thermal and electrical conductivity attached

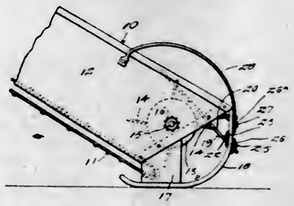
to the support and extending into the space between work-pieces of adjacent work-holders when on the guiding track and having a portion



adjacent to the end of the work-piece and providing an arc-contacting surface spaced from the electrode at a distance greater than the gap between the electrode and the work.

---

**2,391,763**
**THIN SWATH BOOSTER**
**William G. Anderson, Kennedy, Minn.**
**Application November 26, 1943, Serial No. 511,858**
**2 Claims. (Cl. 56—351)**

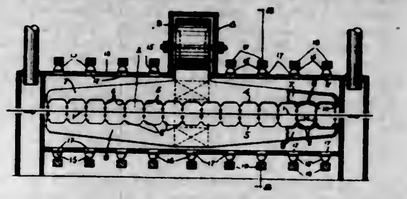


1. In combination with a pick-up mechanism including a rotary drum having pick-up teeth radiating therefrom, the mechanism having shoes extending forwardly of the drum, a tine structure including a rocker rod and a plurality of tines extending from the rod over the drum and relatively close to the teeth, means journaling said rod on the shoes, abutment means for the rod on the shoes, abutment means above the first abutment means to prevent the tines falling backwards, said abutment means being mounted on the shoes, and the axis of the tine structure being forwardly of the drum.

---

**2,391,764**
**DRYING APPARATUS**
**Bernard R. Andrews, Braintree, Mass.**
**Application November 18, 1944, Serial No. 564,020**
**5 Claims. (Cl. 34—68)**

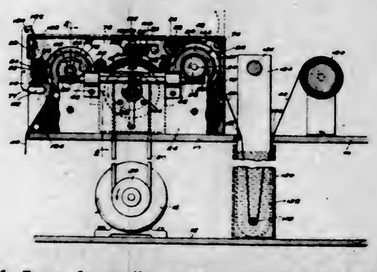
1. A drying apparatus having a duct, two opposed walls of which are formed of material through which radiant heat will readily pass, one of said walls being formed with a plurality of slots extending transversely of the length of the duct, means supporting the material to be dried adjacent said wall of the duct, means to deliver gaseous drying medium under pressure to said duct and through said slots against the said material, and means located on the opposite side of the duct from the material to generate radiant



heat and project it through the duct on to said material.

---

**2,391,765**
**FACSIMILE APPARATUS**
**Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application September 21, 1942, Serial No. 459,137**
**6 Claims. (Cl. 234—70)**



1. In a facsimile receiver of the electrolytic type comprising a feed roller and a drying roller, means for positioning a sheet of moist record receiving paper in contact with the feed roller and the drying roller, means to rotate the feed roller at a relatively slow speed to control the rate of movement of the paper through the receiver, a heater positioned inside the feed roller for supplying heat to the paper to reduce the moisture content thereof to a predetermined value, means for rotating the drying roller, the peripheral speed of the drying roller being in excess of the peripheral speed of the feed roller, and a heater positioned inside the drying roller for supplying heat to the paper after a recording has been made thereon to remove substantially all of the moisture from the paper.

---

**2,391,766**
**METHOD OF MANUFACTURING TUBES**
**George E. Barnhart, Pasadena, Calif.**
**Application March 8, 1943, Serial No. 478,456**
**4 Claims. (Cl. 29—156)**



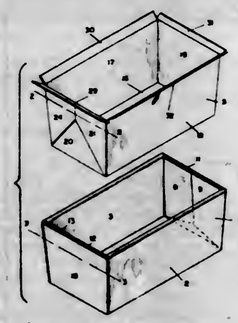
1. The method of making a tube comprising taking a tube, expanding one end portion of the tube and decreasing the wall thickness of the one end portion of the tube, causing an intermediate portion of the tube to expand in diameter



and limiting the amount of diametrical expansion of the intermediate portion of the tube so that it is of less diameter than that of the one end portion of the tube, causing the other end portion of the tube to expand more than said intermediate portion expands while limiting the amount of expansion of said other end portion of the tube and thereafter reducing the external diameter of each end portion of the tube to equal the external diameter of the intermediate portion of the tube.

---

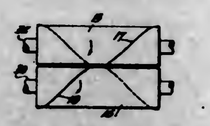
**2,391,767**
**BAKE PAN**
**Ray F. Beerend, Bay Village, Ohio**
**Application May 20, 1943, Serial No. 487,750**
**2 Claims. (Cl. 99—438)**



1. A meat-cooking carton comprising an inner carton having the bottom, side and end walls presenting smooth unobstructed inner surfaces and an outer carton having a bottom and end walls integral therewith said end walls having integral infolding tabs, side walls integral with the bottom having infolding portions overlapping the infolded end tabs, said infolded side portions having infolded end tabs having the end surfaces adapted to abut and interlock when folded against the end members.

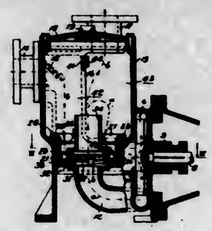
---

**2,391,768**
**FACSIMILE RECORDER**
**Albert Blain, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 30, 1941, Serial No. 376,615**
**2 Claims. (Cl. 234—68)**



1. In a facsimile recording system, the combination of a pair of adjacent helical electrodes adapted to rotate about parallel axes, means for applying a signal current to said electrodes, means for feeding a record receiving sheet between and in contact with adjacent points on said electrodes, and means for causing said electrodes to act upon said sheet in response to said signal current.

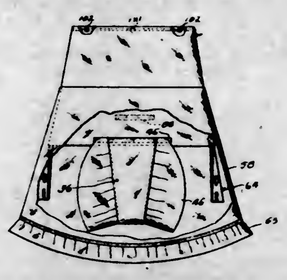
**2,391,769**
**SELF-PRIMING PUMP**
**Richard D. Campbell, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware**
**Application May 14, 1943, Serial No. 486,939**
**15 Claims. (Cl. 103—113)**



1. In a self-priming centrifugal pump, a casing, an impeller rotatable within said casing, a chamber mounted on said casing and divided into a suction space connected with the inlet of said impeller and separated from a discharge space receiving the discharge from said casing, a hollow valve member defining a passage through which the entire discharge from said casing is conducted to the discharge space of said chamber under all conditions of pump operation, said valve member being slidably mounted to control a port connecting the suction and discharge spaces in said chamber, and spring means cooperating with said valve member to maintain communication between said suction and discharge spaces through said port when said pump is inoperative and during priming thereof.

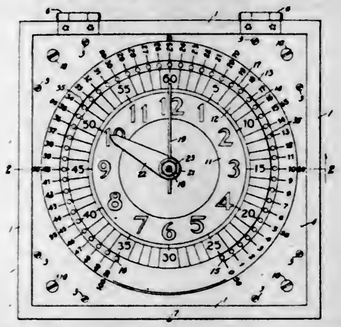
---

**2,391,770**
**COMBINATION UNDERGARMENT**
**Blanche Du Buque Cangelosé, Lowell, Mass.**
**Application February 16, 1943, Serial No. 476,083**
**1 Claim. (Cl. 2—73)**



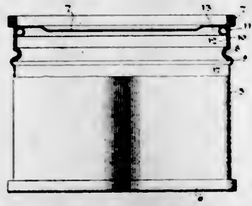
A combination garment comprising a pantie formed of a single piece of material having the edges stitched together to form a tapered body having the larger end lowermost and the small upper end terminating at substantially the waistline of the wearer, a crotch piece carried by the lower end of said body, means detachably securing said crotch piece to said body, an anti-chafing ruffle secured to each lengthwise edge of said crotch piece, a skirt, and means dependingly securing said skirt to the exterior of said body below the upper end of the latter and at substantially the hip line of the wearer, said skirt extending a substantial distance below said pantie.

2,391,771
**TIME SCHEDULE CALCULATOR**
Charles C. Clark, Columbus, Ohio
Application April 17, 1943, Serial No. 483,525
6 Claims. (Cl. 235—83)



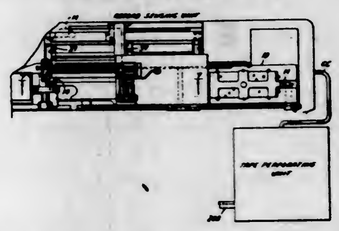
1. A time schedule calculator for calculating time schedules comprising plates secured together in spaced-apart relation to provide a space therebetween, a clock dial provided on the exposed face of one of the plates having hour and minute scales, a shaft journalled on the plates and carrying an indicating means for one of the scales, a second indicating means for the other scale associated with the shaft, a movable dialing disc fixed to the shaft between the two plates and provided with selected portions in registration with the minute scale, gear reduction mechanism connecting the shaft and the second indicating means, and a slot provided in the plate having the clock dial thereon to give access to means for actuating the dialing disc.

2,391,772
**COLLAR CAN COLLAR MOUNTING**
John Coyle, Baltimore, Md., and William F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 7, 1944, Serial No. 543,856
3 Claims. (Cl. 220—54)



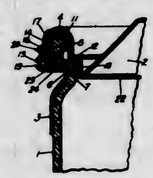
1. In a sheet metal container, a body portion, an upper end closure seamed onto the body portion, said body portion having an S-shaped bead structure adjacent its upper end including an inwardly directed upper bead portion and an outwardly directed lower bead portion, the body portion between said upper bead portion and the closure being scored to provide a tear strip, and a collar snugly fitting within the body and having a main body portion lying opposite and extending above and below the tear strip with its lower extremity resting as a stop on the upper bead portion and its upper extremity formed into an inwardly curled bead, said collar also including an integral bottom extension conforming to the curvature of the upper bead portion and terminating in a raw metal edge extending outwardly as an anchor into the lower bead portion.

2,391,773
**RECORD CONTROLLED TAPE PUNCHING MACHINE**
Charles R. Doty, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 15, 1945, Serial No. 578,107
15 Claims. (Cl. 164—115)



1. In a recording machine of the class described, the combination of a tape punching mechanism including punch elements therefor, record controlled means for effecting the selection of tape punch elements to cause punching of columns of said tape to represent numerical data, and automatic means operable for 0 representing record columns at the left of the record column representing a digit 1–9 of highest denominational order to suppress 0 tape punching for corresponding tape columns and to select punch elements representing some arbitrary symbol other than 0.

2,391,774
**CONTAINER**
Hans A. Eggers, Van Wert, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 12, 1937, Serial No. 158,768
3 Claims. (Cl. 229—5.5)



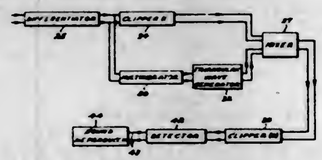
1. A container structure comprising a body portion made of fiber board or the like, said body portion being bent inwardly adjacent one end thereof to form an inwardly extending rib and an upstanding flange thereabove and also to form an external groove in alignment with said rib, a head for closing said end of said body portion, said head having a portion merely resting on the upper surface of said rib and a portion lying in contact with the inner substantially vertical surface of said rib so that said portion produces a sealing contact with said rib on both its upper surface and its inner substantially vertical surface, and a means which overlaps said head and having a portion extending into said groove whereby said head is clamped into position to maintain the said multiple sealing contact.



2,391,775
**PROCESSING OF HYDROCARBONS**
Eric William Musther Fawcett and Eric Sylvester Narracott, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
No Drawing. Application November 19, 1942, Serial No. 466,190. In Great Britain September 26, 1941
4 Claims. (Cl. 260—683.5)

1. A process for the conversion of normal aliphatic hydrocarbons into branched chain hydrocarbons by the use of an anhydrous metallic halide such as aluminium chloride as contact catalyst and a hydrogen halide such as hydrogen chloride and water as catalyst activating agents, in which the molecular concentration ratio of water to hydrogen chloride present in the feedstock is within the limits of 0.0001 and 0.01.

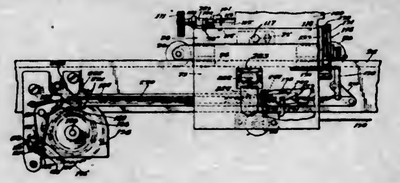
2,391,776
**INTELLIGENCE TRANSMISSION SYSTEM**
Gordon L. Fredendall, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1943, Serial No. 488,969
6 Claims. (Cl. 250—27)



1. The method of converting a series of width modulated impulses into a series of amplitude modulated impulses comprising the steps of producing a series of linearly varying impulses occurring in timed relationship with said series of width modulated impulses, producing a series of impulses occurring in timed relationship with the end of a corresponding width modulated impulse, combining said linearly varying impulses with said series of impulses to produce impulses of varying amplitude, and detecting said impulses of varying amplitude to produce a series of amplitude modulated impulses.

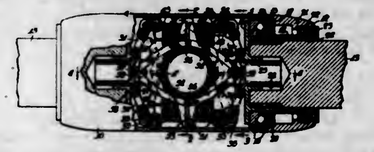
2,391,777
**EMBOSSING MACHINE**
Walter T. Gollwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application May 31, 1938, Serial No. 210,897, now Patent No. 2,265,229, dated December 9, 1941. Divided and this application October 25, 1941, Serial No. 416,547
5 Claims. (Cl. 197—6.6)

2. In a machine for embossing printing plates, the combination of a carriage for supporting and traversing such a printing plate, said carriage having a pair of releasable clamping jaws in which a printing plate to be embossed may be secured and means for mounting said jaws on said carriage including a mounting member, means securing said mounting member against a flat surface on said carriage and arranged to permit limited adjustment of said mounting member to position said jaws parallel to the path of movement of said carriage, means for effecting such adjustment, said last-mentioned means comprising a fixed pin projecting from said mounting member adjacent to one end thereof and into a slot in said surface of the carriage, a second pin on said mounting member adjacent to the other end thereof and adapted to project into a second slot



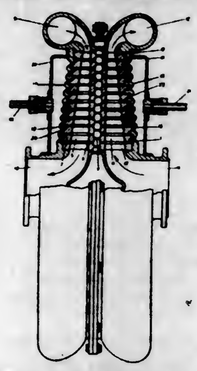
in said surface of said carriage, said second pin being mounted on an adjustable eccentric, means for rotating said eccentric and for fixing the same in adjustable position, and means for effecting adjustment of said mounting member on said carriage longitudinally of said path.

2,391,778
**VARIABLE PITCH PROPELLER**
Michael Gregor, New York, N. Y.
Application October 22, 1943, Serial No. 507,244
3 Claims. (Cl. 170—162)



1. A variable pitch propeller comprising, in combination, a hub adapted to be mounted on a propeller shaft, a housing associated with the hub and formed with radially-disposed openings therein, propeller blades journalled within said openings, thrust bearings restraining outward movement of the blades in their journal supports, means for varying the pitch of the blades due to angular velocity of the propeller, such means comprising a weight associated with each blade positioned within the housing, each of the weights being adapted to move radially outwardly by centrifugal action upon rotation of the propeller, a driving element associated with the weight for increasing the pitch of the blade as such weight moves outwardly, and a driven element associated with the inner end of the blade, one of such elements comprising a helical member, and the other of such elements comprising a member contacting the helical member, means for restraining outward movement of the weights including compression springs positioned between the weights, rods connecting each end of the springs with the weight positioned adjacent to the opposite end of such springs, whereby outward movement of the weights at opposite ends of the spring will cause compression of such spring, lever means for equalizing outward movement of the opposed weights, and adjustable, spring-pressed detents for retaining the weights in their outermost positions, against the action of the compression springs tending to retract the weights, until the angular velocity of the propeller has decreased to a predetermined maximum.

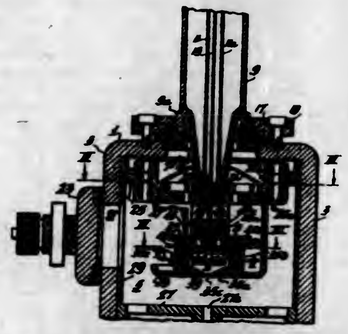
2,391,779
**TURBOCOMPRESSOR**
Alan Arnold Griffith, Derby, England
Application October 5, 1942, Serial No. 460,787
In Great Britain September 5, 1939
5 Claims. (Cl. 230—116)



1. A turbo-compressor comprising a casing and a plurality of independently rotatable members mounted therein, each of said rotatable members carrying a set of turbine blades and a set of compressor blades, and a set of ducts adapted to carry fluid under pressure to one side of each independently rotatable member to balance thrust in the axial direction.

---

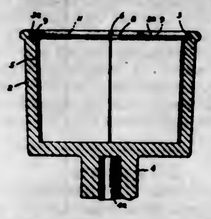
2,391,780
**ELECTRON DISCHARGE DEVICE**
James Hillier, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 13, 1943, Serial No. 506,035
5 Claims. (Cl. 250—27.5)



1. The combination with an electron discharge device comprising an evacuable chamber containing an apertured anode, a port in a wall of said chamber, a rigid support for an electrode sub-assembly mounted within said chamber and accessible from said port, an electrode sub-assembly comprising a capsule having an aperture therein and adapted to be passed through said port and seated within said support with said aperture in register with the aperture in said apertured anode, an electron source mounted to permit lateral movement within said capsule, and means for moving said electron source laterally within said capsule with respect to said registered capsule and anode apertures.

---

2,391,781
**SPINNING BUCKET ASSEMBLY**
Harrison D. Hesse, Wilmington, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application January 9, 1945, Serial No. 572,069
12 Claims. (Cl. 57—76)



1. A removable shell for a spinning bucket, said shell comprising a split side wall having its inner surface tapering inwardly from top to bottom and only one end wall adjacent the larger inner periphery of the side wall, said side wall comprising a plurality of segments swingably mounted on axes lying approximately in the plane of the end wall.

---

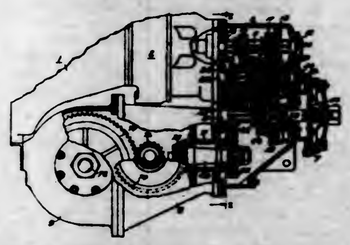
2,391,782
**POLICE WEAPON**
Robert L. Hutchison, Reno, Tex.
Application February 11, 1944, Serial No. 521,997
5 Claims. (Cl. 273—84)



1. A weapon of the class described comprising superposed walls providing a pocket, a mass of discrete weight particles in said pocket, and the walls having a hand opening therethrough.

---

2,391,783
**TRANSMISSION**
Louis Jacobi, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 26, 1941, Serial No. 412,361
10 Claims. (Cl. 74—333)

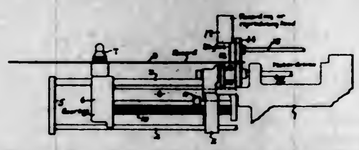


1. In a transmission, a driving shaft, a driven shaft and a work shaft rotatable, respectively, about relatively spaced axes; speed selecting gearing comprising a plurality of driving gears coaxial with said driving shaft and a plurality of relatively non-rotatable counter gears alined on an axis spaced from the axes of said driving and driven shafts; means selectively operable to control the transmission of power from said driving shaft, through any one of said driving gears, to said counter gears; range selecting gearing comprising a first auxiliary gear coaxial with said counter gears, a second auxiliary gear coaxial with said driven shaft, adapted to mesh with said first auxiliary gear, a first driven gear coaxial with said driven shaft adapted to mesh with one of said counter gears, constantly meshing second and third driven gears non-rotatably connected, respectfully, to said driven and work shafts; means selectively operable to control the transmission of power from said counter gears, through said auxiliary gears and through said first driven gear, respectively, to said driven shaft; a third auxiliary gear coaxial with said counter gears, a reverse idler adapted to mesh with said third auxiliary gear and with said second driven gear, and means selectively operable to control the transmission of power from said counter gears through said third auxiliary gear and reverse idler to said second driven gear.



---

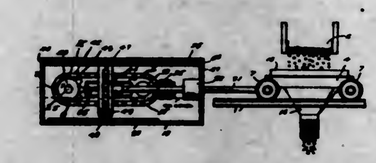
2,391,784
**SOUND RECORDING AND REPRODUCING MACHINE**
William E. Johnston, Westerge, Conn., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application November 4, 1943, Serial No. 508,898
7 Claims. (Cl. 274—9)



1. In a sound machine of the type described, the combination including a record supporting carriage, a driving wheel positioned to engage a record blank when mounted on said carriage, an anvil positioned to engage the same side of the record blank, and a recording head having a stylus positioned to engage the record blank at a point between the driving wheel and the anvil.

---

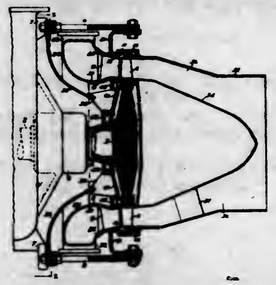
2,391,785
**RECIPROCATORY MOTION APPARATUS**
Thomas Jordan, Salt Lake City, Utah
Original application December 21, 1940, Serial No. 372,653. Divided and this application June 14, 1944, Serial No. 540,295
1 Claim. (Cl. 74—27)



In an automatic sampling machine, a motion transformer comprising a casing, a drive shaft journalled in said casing, a driving sprocket fixed on said shaft, a guide member fixed in said casing and extending lengthwise thereof, said guide member including a pair of elongated guide bars and a pair of end members fixed to the ends of said bars, a slide block slidably engaging between said bars, a screw shaft rotatably engaging through said end members and threaded through said block whereby the latter may be adjusted lengthwise of said guide bars, an idler shaft carried by said block, an idler sprocket rotatably carried by said idler shaft, a chain trained about said sprockets, a reciprocating rod slidably carried by said casing and extending lengthwise of the opposite runs of said chain, a crosshead fixed to said rod in said casing and formed with an elongated slot disposed at right angles to the runs of said chain, a roller carried by said chain engaging in said slot whereby movement of said chain will effect reciprocation of said rod, a rail carried by the bottom of said casing, and a roller carried by the lower end of said crosshead and engaging said rail.

---

2,391,786
**TURBINE NOZZLE STRUCTURE**
Clarence E. Kenney, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 18, 1944, Serial No. 536,117
14 Claims. (Cl. 253—78)



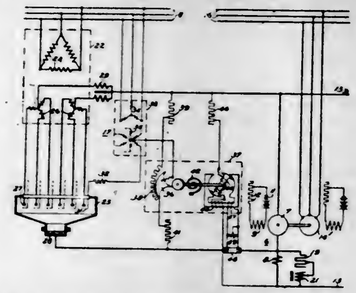
1. A nozzle structure for elastic fluid turbines comprising a plurality of arcuate nozzle segments positioned in end-abutting ring-forming relation with the ends of the segments interlocked to prevent relative axial movement, said segments each comprising inner and outer ring parts securely united in spaced concentric relation by a series of circumferentially spaced vanes including complementary vane sections uniting the ends of said ring parts and presenting therewith continuous plane end-surface portions disposed in abutting vane-forming relation with respect to the opposing ends of adjacent segments, and a continuous coaxial ring member having an internal edge portion compressibly engaging external coaxial surface portions of said outer ring parts to thereby secure said segments in coaxial ring-forming relation.

---

2,391,787
**ELECTRIC CURRENT CONVERTING SYSTEM**
James G. Linn, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 8, 1943, Serial No. 513,436
9 Claims. (Cl. 171—312)

1. The combination of an alternating current circuit, a direct current circuit, a dynamo-

electric machine comprising an armature winding and a field winding serially connected across said direct current circuit, and a current converting system comprising an electric valve for the conversion of current between said circuits, said system having connections with said alternating current circuit and being effectively con-



nected in parallel with said armature winding and in series with said field winding, the connection of said field winding to said armature and said converting system providing for excitation of said field winding in response to the joint current of said armature winding and said converting system.

---

**2,391,788**
**ANCHORING MEANS FOR FLEXIBLE MEMBERS**
**Sarah Lipton, New York, N. Y.; Jane Lipton Orban administratrix of said Sarah Lipton, deceased**
**Application March 4, 1944, Serial No. 525,011**
**5 Claims. (Cl. 24—143)**



1. A fastener of the character described comprising a flexible fastening member having an anchoring needle clamped thereon, said anchoring needle comprising a sheet metal member having a point portion at one end thereof, a tail portion at the other end thereof, and a pair of wings wrapped around the end of the flexible member, one of said wings overlapping the second of said wings, and said second wing having a portion overlapping upon itself so as to depress the metal beneath it.

---

**2,391,789**
**SHOEMAKING**
**Henry G. Lumbard, Auburn, Maine**
**Application August 5, 1943, Serial No. 497,465**
**5 Claims. (Cl. 12—142)**

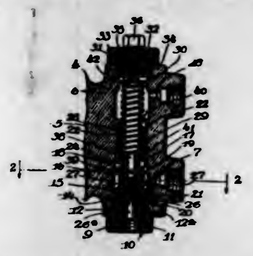
1. The process of shoemaking comprising the steps of lasting an upper to an insole having an inner cushion ply and a concealed steel shank stiffener perforated at its forward end and a concealed fibre cover shaped to fill the heel seat of the shoe and to which the rear end of the shank stiffener is attached, heel-seat nailing thereby anchoring the rear end of the shank stiffener in the shoe bottom, removing the last, lock-stitching an outsole in the shoe bottom, molding the shoe bottom to conform with the



contour of said shank stiffener, and finally inserting a rivet through the outsole, the insole and the perforation of the shank stiffener thus anchoring the forward end of the shank stiffener in the shoe bottom.

---

**2,391,790**
**FLUID PRESSURE CONTROL VALVE**
**Gunnar R. C. Martinsson, Chicago, Ill., assignor to Tuthill Pump Company, Chicago, Ill., a corporation of Illinois**
**Application July 12, 1943, Serial No. 494,274**
**1 Claim. (Cl. 137—153)**



In a fluid pressure control valve, an elongated casing having similar coaxial interior cylindrical bearing portions adjacent opposite ends thereof, and a coaxial cylindrical bearing portion intermediate its ends, said casing also having fluid passageways communicating therewith adjacent opposite ends, a detachable plug having a cylindrical projection adapted to be interchangeably fitted in the cylindrical bearing portion at either end of said casing, said plug also having a sleeve adapted to project into said casing beyond either of said cylindrical end portions and having an outlet port at the lower end of said sleeve communicating with the outer end of said plug, a piston adapted to be slidably mounted in the intermediate bearing portion of said casing, said piston having a by-pass cut-off valve member adapted to be slidably engaged in said sleeve to afford communication between opposite ends of said piston in a predetermined position of the latter, said piston also having an outlet valve member extending below said slidable by-pass cut-off member and adapted to form a closure for said outlet port, a loading spring for urging said piston towards said plug member, threaded adjustment means for said loading spring, and a cap member for supporting said threaded adjustment means adapted to have detachable engagement with the casing at either end of said casing, whereby said piston, end plug and cap member may be mutually reversed in end-to-end relation in said casing to provide a reversible valve structure with its outlet connection disposed at either end of said casing.



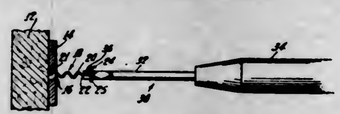
**2,391,791**
**METHOD OF PREPARING WATER-RESISTANT CONTAINERS**
**Irving McHenry, River Forest, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware**
**Application March 20, 1942, Serial No. 435,478**
**6 Claims. (Cl. 93—2)**



1. A method of treating a container to render the same water-resistant, said container having an open joint formed by the walls thereof, with the edges of the walls disposed in adjacent relation, comprising adhesively securing a sheet of gummed tape over said joint, with the sheet extending across said joint and being adhesively secured to the surface of the walls adjacent said edges, the entire periphery of said sheet being secured to the walls in overlapping relation, applying to the outer surface of the container and the sheet of gummed tape thereon a plurality of small particles of a water-resistant material, said particles being slightly tacky whereby they adhere to said surface, and heating the particles to melt the same and cause them to flow together, forming a substantially continuous water-resistant coating.

---

**2,391,792**
**WALL CONSTRUCTION AND FASTENER THEREFOR**
**William S. Miles, Hastings on Hudson, and Paul A. Veigt, Bellerose Manor, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application January 23, 1942, Serial No. 427,874**
**8 Claims. (Cl. 108—33)**

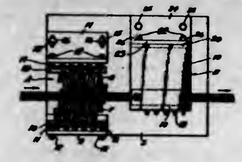


1. A wall structure comprising a sheathing, covering elements overlying said sheathing, fastener-receiving perforations in said elements, and integral fasteners including shanks extending through said perforations, helical portions integral with said shanks and engaged within said sheathing, and heads integral with said shanks and bearing against said covering elements and including a locking portion engaged in said covering elements.

---

**2,391,793**
**MECHANISM FOR TREATING WIRE ROPE**
**Henry J. Mische, Belleville, N. J., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York**
**Application July 7, 1943, Serial No. 493,796**
**4 Claims. (Cl. 153—32)**

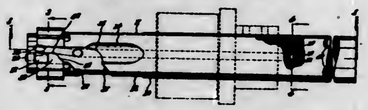
1. A straightening mechanism comprising two sets of parallel helices with the convolutions of each set intermeshed to an extent to provide an interior opening between their inner opposed faces to receive a wire rope to be straightened and with the axes of all the helices parallel, the



common axial plane of one set being disposed at right angles to that of the other set and the openings between the convolutions of the sets lying in the same line.

---

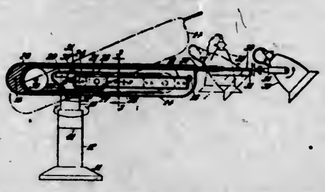
**2,391,794**
**BORING BAR**
**Francis M. O'Brien, Jr., Miami, Fla.**
**Application July 7, 1944, Serial No. 543,817**
**5 Claims. (Cl. 77—58)**



1. An improved boring bar comprising a substantially solid bar body of external substantially circular form having four external grooves therein with their central portions at approximately 90° apart and their proximate edges spaced from one another, said external grooves being substantially arcuate with concave bases, said bar having in the spaces between said grooves four slots with substantially parallel walls, said slots opening outwardly through the periphery of the bar, pads affixed in said slots and projecting beyond the periphery of the bar, said bar having a transverse socket opening through diametrically opposed grooves and having one wall coinciding substantially with a diameter of said bar, a cutting tool occupying said socket and slidable therein and having a cutting edge held to a center line position by said diametric wall, said cutting edge projecting into one groove, and adjusting means for the tool contained in the diametrically opposite groove.

---

**2,391,795**
**ADJUSTABLE BRACKET**
**George Francis Norris Oliver, London, England, assignor to Oliver Pell Control Limited, Woolwich, London, England, a British company**
**Application June 1, 1943, Serial No. 489,271**
**In Great Britain April 10, 1942**
**1 Claim. (Cl. 248—123)**

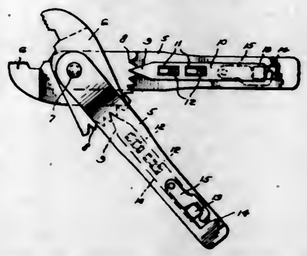


In an adjustable bracket the combination of a support, a casing having a hub pivotally mounted upon the support, a bracket arm consisting of

an element, part at least of which is bendable but is capable when straightened of resisting bending in at least one direction, the said element being mounted within the casing and projecting therefrom over a bearing surface afforded by a portion of the casing so as to be capable of being drawn out therefrom and returned thereto, said bracket arm being bent through 180° in two places within the casing and its end within the casing being fixed relatively thereto, a weight mounted for sliding movement within the casing and engaged with the second bend, that is the one nearer the fixed end of the bracket arm, the casing being balanced and the amount of the movable weight such that the balance of the casing about the hub is maintained in all positions of the bracket arm.

---

**2,391,796**
**FLIERS**
**Bailey E. Range, Armathwaite, Tenn.**
**Application August 10, 1943, Serial No. 498,106**
**1 Claim. (Cl. 81—46)**

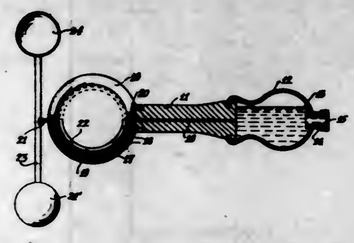


A tool of the character described comprising a pair of handles, a pair of jaws, a pivot pin disposed through adjacent ends of the handles and through intermediate portions of the jaws, and detent means on the handles for engagement with the jaws to hold the jaws in definite position with respect to the handles, said means consisting in the provision of teeth on the inner ends of the jaws, and adjustable toothed elements on the handles for engagement with the teeth of the jaws, said toothed members being slidably disposed on the handles, and retaining means for the toothed members, said retaining means each consisting of a slot in the corresponding handle, a foot on the corresponding toothed member disposed through the slot and a hooked member on the complementary handle for engagement with the foot.

---

**2,391,797**
**TOY**
**August Raspet, Locust Valley, N. Y., assignor to Aviation Research and Development Corporation, Fredericksburg, Va., a corporation of Delaware**
**Application January 10, 1945, Serial No. 572,106**
**4 Claims. (Cl. 46—8)**

4. In a bubble forming toy, the combination of a rigid ring, a handle on said ring, a collapsible bulb on the free end of said handle, the liquid channel extending through said bulb from said handle to said ring, the liquid channel within said ring communicating with said channel of said handle, liquid outlets through the channel in said ring opening on the interior surface of said ring, a curved wire rotatably mounted in the interior of said ring and curved to conform closely to the interior surface of said ring and means to



rotate said wire whereby liquid present on the interior surface of said ring is spread into a film extending over the opening in said ring.

---

**2,391,798**
**ALKYL PHENOL COMPOSITIONS**
**Roland R. Read, Kirkwood, Mo., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland**
**No Drawing. Original application October 10, 1932, Serial No. 673,199. Divided and this application January 18, 1940, Serial No. 314,473**
**2 Claims. (Cl. 167—31)**

1. Germicidal compositions containing in an effective germicidal concentration a mixture of alkyl phenols having an alkyl phenol with five to seven carbon atoms in said alkyl group.

---

**2,391,799**
**HYDANTOIN MANUFACTURE**
**Arthur O. Rogers, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application December 16, 1943, Serial No. 514,549**
**9 Claims. (Cl. 260—309.5)**

1. The process for the manufacture of a hydantoin which comprises preparing a non-alkaline mixture of hydrocyanic acid and a carbonyl compound having the formula:

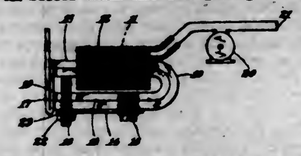


wherein X stands for an organic radical joined to the carbonyl group by a carbon-carbon linkage and Y stands for hydrogen and an organic radical joined to the carbonyl group by a carbon-carbon linkage, said mixture containing at least one mole of said carbonyl compound for each mole of hydrocyanic acid, and reacting said mixture with an aqueous solution of ammonium carbonate.

---

**2,391,800**
**ELECTRIC ALARM CLOCK**
**Victor James Samuel Russell, London, England, assignor to S. Smith & Sons (England), Limited, London, England, a company of Great Britain**
**Application January 2, 1945, Serial No. 571,826**
**In Great Britain October 15, 1943**
**8 Claims. (Cl. 58—38)**

1. An alternating current electric alarm clock comprising an electromagnetic alarm device having an energising coil, an electric motor connected in series with the energising coil and ar-

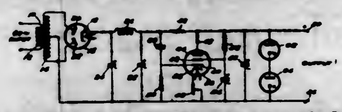


ranged to drive the clock mechanism and means for varying the inductance of the energising coil.

---



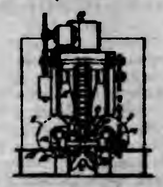
**2,391,801**
**ELECTRONIC TUBE CIRCUIT**
**Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 20, 1942, Serial No. 472,951**
**11 Claims. (Cl. 171—312)**



1. A stabilized electronic power supply having positive and negative output terminals comprising a rectifier for providing a source of pulsating voltage, a filter circuit having positive and negative energy terminals, the filter circuit operating to produce substantially constant voltage energy from the pulsating voltage, a load resistance connected between the positive energy terminal and the positive output terminal, an electron discharge tube having a cathode, a control electrode, a screen electrode and an anode, means including a resistance for connecting said cathode to the negative energy and output terminals, an anode resistance connected between said anode and the positive output terminal, a screen resistance connected between said screen electrode and the positive output terminal, a condenser connected between said screen electrode and the negative output terminal, a resistance connected between said control electrode and the negative output terminal, and a condenser connected between said control electrode and the positive energy terminal whereby the impedance of the electron discharge tube will be altered by voltage variations at the energy terminals to compensate for such variations and to produce a constant voltage at the output terminals.

---

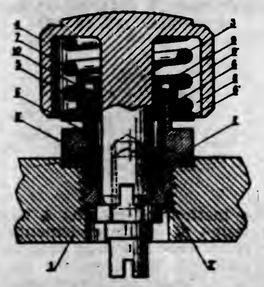
**2,391,802**
**LOG BARKER CONVEYER**
**Ernest C. Shaw, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware**
**Application April 22, 1944, Serial No. 532,257**
**4 Claims. (Cl. 198—103)**



4. In combination, a pair of rotating parallel cylindrical rolls for supporting and rotating an elongated object cradled in tangential engagement therewith, means for feeding elongated objects longitudinally onto said rolls, said feeding means comprising a conveyer presenting at least one pair of spaced transverse object-engaging knife-edges, each curved in its own plane to form a material receiving notch with opposed upwardly divergent nonintersecting relatively convex arcuate sides, in linear motion toward said rolls with the said opposed arcuate sides of said notches in substantially coaxial relation to and alined with the cylindrical surfaces of said rolls.

---

**2,391,803**
**WATERPROOF PUSH BUTTON FOR TIMEPIECES**
**John Simon, Tramelan, Switzerland**
**Application March 9, 1944, Serial No. 525,713**
**In Switzerland April 27, 1943**
**3 Claims. (Cl. 58—90)**



1. A waterproof push button for time piece comprising a guiding tube secured to the time piece case and having an inwardly flanged inner end, a central shank extending into said tube, a tubular packing interposed joinedly between said tube and said shank and bearing on the inner flange of the tube, a sleeve engaged on said shank and capping said tube, a ring also engaged on said shank and bearing on said packing, said ring being adapted to freely slide through the space between said tube and said shank, a coil spring adapted to press axially said sleeve against said ring, thus pressing said packing axially against said inner flange of said tube towards the interior of the case.

---

**2,391,804**
**HOSE CLAMP**
**Nathan D. Smith, Aberdeen, Md.**
**Application June 7, 1944, Serial No. 539,100**
**3 Claims. (Cl. 24—19)**

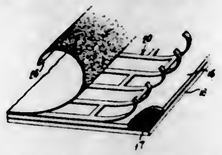


1. A hose clamp of the type having a flexible tension band adapted to encircle the hose and a

tightening nut secured to the ends of the band, a bridge, and a screw threaded through the nut and having a thrust engagement with the center of the bridge, said bridge comprising an outer rigid member of inverted substantially V-shape to which the inner end of the screw is swivelled, and an inner arcuate flexible member having its intermediate portion spaced from the intermediate portion of the outer rigid bridge member, the ends of said outer rigid bridge member being fixed to the inner bridge member at points adjacent but inwardly of its free ends, said tension band having a link pivoted to each end thereof and pivotally engaged with the nut.

---

**2,391,805**
**METHOD OF MAKING COVERING ELEMENTS**
**George Smolak, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application May 19, 1944, Serial No. 536,276**
**9 Claims. (Cl. 18—61)**



1. In the method of making a covering unit having a design of building elements delineated by joint simulations, the steps comprising laying a cut-out stencil of the design of the joint lines to overlie a wet sheet of fibre-cement material, laying a sheet carrying a coating of surfacing material to overlie said stencil with said coating adjacent said stencil and sheet, heavily pressing the assembly thus formed to impress the stencil into the fibrous, cementitious sheet and to join the surfacing material to the fibrous, cementitious sheet through the openings of said stencil, and stripping off the sheet and stencil.

---

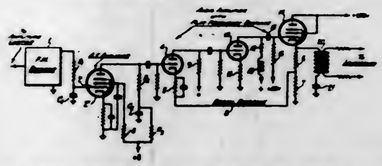
**2,391,806**
**PUMP**
**Willis F. Thompson, Portland, Maine, assignor to The Alden Speare's Sons Co., Cambridge, Mass., a corporation of Massachusetts**
**Application December 4, 1943, Serial No. 512,860**
**7 Claims. (Cl. 222—318)**



1. In a pump through the operation of which liquid may be drawn from a container source the combination comprising a chambered casing with delivery outlet, means whereby liquid may be drawn into the casing from the source comprising a hollow piston and piston rod, the interior of the rod communicating with the chamber of the casing, means whereby excess liquid within the rod will be directed back to the source including a drainage tube in open communication with the interior of the rod and connections leading from the tube to the source, and means for controlling the passage of liquid through the tube and connections back to the source whereby liquid from the casing will be permitted to pass through the tube and connections back to the source upon the development of pressure within the casing for relieving such pressure.

---

**2,391,807**
**PHASE MODULATION RECEIVING SYSTEM**
**Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 24, 1943, Serial No. 492,037**
**5 Claims. (Cl. 250—20)**



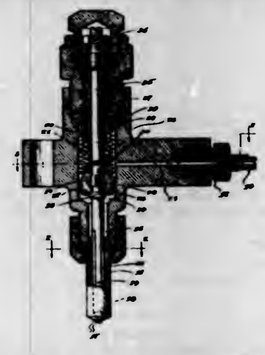
1. In an angle modulated carrier wave receiver of the type provided with a demodulator having an output load resistor across which is developed modulation signal voltage whose amplitude is an increasing function over a relatively wide range of modulation frequencies, a modulation signal voltage amplifier, a first resistor and condenser network in shunt with said load resistor and coupled to said amplifier input, the ratio of resistive impedance to reactive impedance of said network being sufficiently high to provide a frequency response at said amplifier input which is inversely proportional to frequency over a portion of said wide range above a predetermined median frequency thereof but which is relatively invariable below said median frequency, a second resistor and condenser network in shunt with said amplifier output, the constants of said second network being chosen to provide a frequency response characteristic which is inversely proportional to frequency over that portion of said wide range below said median frequency but which is substantially invariable over said portion of the range above said median frequency whereby said increasing amplitude is compensated for over said wide range.

---

**2,391,808**
**FUEL ATOMIZER**
**Edward T. Vincent, Ann Arbor, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia**
**Application August 19, 1942, Serial No. 455,392**
**3 Claims. (Cl. 299—107.6)**

1. A fuel atomizer structure comprising a casing provided with a fuel chamber having a fuel inlet and a discharge jet, a freely floating inwardly opening valve operatively associated with said discharge jet, said valve having a stem extending into said fuel chamber, a sleeve having a valve seat and a bore through which said valve stem extends, said valve stem having an enlarged portion seating on the sleeve valve seat, an expansible bellows connected to said sleeve and a wall of said chamber, a spring of predetermined spring tension engaging the sleeve and positioned to urge the valve on its seat to close the discharge jet,

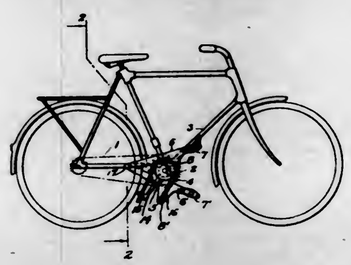




said sleeve being operable under pressure in said chamber to unseat with respect to said valve stem and permit fuel under pressure to enter the interior of the bellows and to thereby maintain a slight differential fuel pressure between the interior and exterior of said bellows.

---

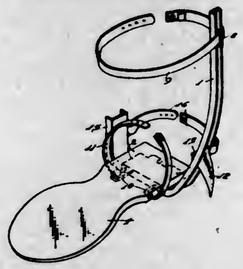
**2,391,809**
**PEDAL DRIVE**
**Jacques Wasem, Veyrier, Switzerland**
**Application August 5, 1943, Serial No. 497,491**
**In Germany October 20, 1942**
**1 Claim. (Cl. 280—253)**



A pedal drive for cycles in which the frame is of a conventional type comprising a main drive shaft journalled in the lower medial portion of the frame, a main sprocket wheel carried thereby and in driving connection with the rear wheel of the cycle, secondary sprocket wheels on opposite sides of the frame and in clutch connection with the drive shaft so as to rotate the drive shaft only in clockwise direction, a pair of levers arranged on opposite sides of the frame and having their inner ends pivotally connected to the lower side bars of the cycle frame, projections extending downwardly from the medial portions of the levers and positioned to describe arcs forwardly of the drive shaft, an arm extending downwardly and rearwardly inclined from the lower medial portion of the cycle frame, a third sprocket wheel rotatably mounted at the lower end of the arm and arranged transversely of the cycle frame, and a chain member trained about the third sprocket wheel and thence about the secondary sprocket wheels and having its ends connected to the outer ends of the projections for compelling the levers to move in opposite direction when downward movement is imparted to the pedals.

---

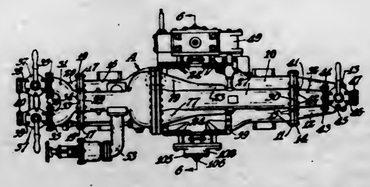
**2,391,810**
**POLE CLIMBING SPUR**
**Harry R. Webber, Norwood, Pa.**
**Application February 27, 1945, Serial No. 579,949**
**5 Claims. (Cl. 227—27)**



1. In a pole climbing spur, a leg bar in the form of a channel and having at its lower portion a lateral extension, a spur fixed to said leg bar, a foot supporting member to receive the bottom of the foot in advance of the heel and hinged to said lateral extension, means to secure the leg bar to the leg of the user, and fastening means to pass around the foot supporting member and the shoe of the user of the spur.

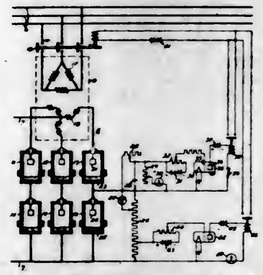
---

**2,391,811**
**MULTISTAGE CENTRIFUGAL PUMP**
**Edward A. Wilhelm, St. Paul, Minn., assignor to Waterous Company, St. Paul, Minn., a corporation of Minnesota**
**Application November 6, 1943, Serial No. 509,244**
**11 Claims. (Cl. 103—106)**



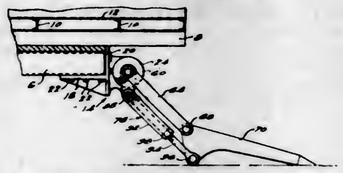
1. A centrifugal pump comprising a pair of impellers, a volute for each of said impellers, a discharge for each of said volutes, a pair of inlet manifolds to said impellers, means connecting said inlet manifolds, a passage connecting the outlet of one of said volutes to the intake of the impeller in the other of said volutes, a valve in said last named passage operable selectively to connect said impellers in series by opening said passage and simultaneously closing an inlet manifold or in parallel by closing said passage and simultaneously opening said inlet manifold, and valve means in the intake manifold to the impeller in the other of said volutes to close and to disconnect the intake manifolds.

2,391,812
**ELECTRIC VALVE PROTECTIVE SYSTEM**
Harold Winograd, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application February 27, 1942, Serial No. 432,577
20 Claims. (Cl. 315—120)



1. The combination of an electric arcing device comprising electrodes and an ionizable vapor for the transmission of electric current by way of arcs between said electrodes, means for controlling the operation of said device, and means variably operable in dependence upon variations in the density of ionization of said vapor at a predetermined point of said device only immediately after interruption of an arc between said electrodes for controlling the operation of the first said means.

2,391,813
**POWER TAIL GATE**
Louis S. Wood, Grosse Pointe Farms, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application August 7, 1944, Serial No. 548,471
7 Claims. (Cl. 214—77)



1. A power-operated tail gate for a vehicle body, comprising a horizontally disposed, transversely positioned shaft journaled adjacent the rear end of the body, a hydraulic vane-type piston operatively connected to said shaft, a housing surrounding said piston and operatively associated therewith whereby hydraulic fluid supplied to said housing under pressure will rotate said vane and shaft, lifting arms nonrotatably mounted, one on each end of said shaft, a tail gate pivotally connected to said lifting arms, and a pair of links each having one end journaled on a fixed pivot in spaced relation to the axis of said shaft and the other end pivoted to said tail gate in spaced relation to the points of pivotal connection of said lifting arms.

2,391,814
**MACHINE FOR MAKING CUSHIONS**
John H. Woodall, Woodland, Ga.
Application November 21, 1942, Serial No. 466,499
15 Claims. (Cl. 154—29)

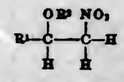
1. A machine for making cushions, comprising: means for supplying resilient compressible stock, means for successively producing cushion pads of definite shape and area from said stock, means for supplying sheet material, means operated in coordination with said pad-producing means for cutting successive envelope components of greater area than pad area from the sheet material at



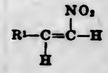
the same rate as the rate of pad production, means for applying envelope components individually to the successively-produced pads on opposite faces thereof, and means for uniting said thus-pad-associated envelope components to complete fabrication of padded cushions therefrom.

2,391,815
**ETHERS OF PRIMARY NITROALKANES AND METHOD OF PREPARING THEM**
Carl T. Bahner, Jefferson City, Tenn.
No Drawing. Application June 15, 1944, Serial No. 540,536
5 Claims. (Cl. 260—614)

1. In a process for preparing ethers of primary nitroalkanes having the following structural formula



in which $R^1$ and $R^2$ represent alkyl radicals, the steps which comprise reacting a 2-alkyl-1-nitroethene of the following structure



in which $R^1$ represents an alkyl radical with an alkali metal alcoholate and thereafter acidifying and recovering the product.

2,391,816
**HAIRSPRING COLLET**
William Ogle Bennett, Jr., Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application July 29, 1944, Serial No. 547,143
7 Claims. (Cl. 58—115)



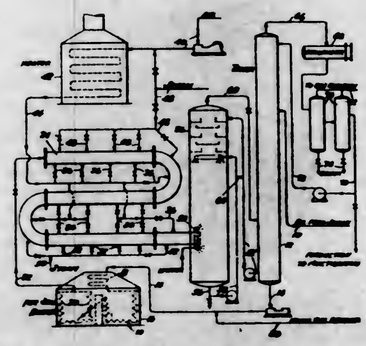
1. A hairspring collet comprising a hub, a counterpoised flange having a hairspring receiving groove formed with a spiral seat conforming to and matching the hairspring fitting therein, said groove and seat not being concentric with said hub.



2,391,817
**RUBBERLIKE COPOLYMERS AND METHODS OF MAKING**
Billee O. Blackburn, Kensington Park District, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 2, 1942, Serial No. 464,288
8 Claims. (Cl. 260—84.5)

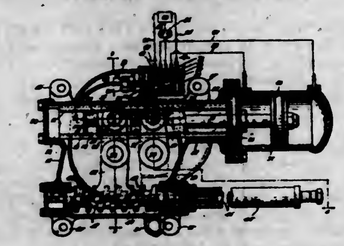
3. A process comprising polymerizing a mixture of from about 5% to about 30% of a methylpentadiene selected from the group consisting of 2-methyl-1,3-pentadiene and 4-methyl-1,3-pentadiene, from about 50% to about 70% of a different conjugated double bond diolefin, and from about 10% to about 25% of a compound of the group consisting of styrene, alpha methyl styrene, acrylonitrile and methacrylonitrile.

2,391,818
**PROCESS FOR MANUFACTURING ALKYL BENZENE HYDROCARBONS**
David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application March 15, 1943, Serial No. 479,204
4 Claims. (Cl. 260—668)



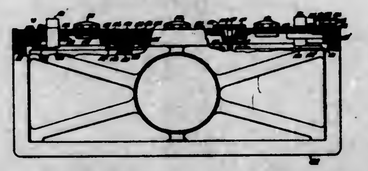
1. In a process for manufacturing side chain benzene hydrocarbons in which a petroleum oil distillate stock low in aromatic hydrocarbons is cracked at a temperature of about 1100° F. in a cracking zone to produce a vapor mixture consisting largely of unsaturated olefinic hydrocarbons, the improvement which comprises passing the vapor mixture directly from the cracking zone into a tubular porous refractory converter through which the vapor mixture passes as a stream and is heated rapidly by an annular envelop of burning carbon, hydrogen and hydrocarbons produced by separately heating air to a high temperature and diffusing it while in a highly heated condition through the wall of said tubular converter around the stream of vapors passing therethru, said vapor mixture being heated in said converter to a temperature of from 1350° to 1450° F. for a matter of seconds, whereby hydrocarbons of said vapor mixture are converted to side chain benzene hydrocarbons and controlling the final temperature attained by said vapor mixture in said converter by diffusing steam through the porous wall thereof.

2,391,819
**POWER STEERING GEAR**
William K. Creson, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a corporation of Indiana
Application December 18, 1944, Serial No. 568,685
15 Claims. (Cl. 180—79.2)



1. In a power-operated steering gear, a housing adapted for mounting on a vehicle frame, guides within said housing, two members slidable longitudinally in said guides and capable of limited relative longitudinal movement, preloaded spring means acting between said members and biasing them toward a neutral relative position between the limits of their relative longitudinal movement, a steering shaft rotatably mounted in said housing, a hydraulic motor having a piston and a piston-receiving cylinder mounted on said housing, valve means mounted on said housing for selectively controlling the flow of fluid under pressure to opposite ends of said cylinder, speed-reducing power-transmitting means disposed within said housing and operatively connecting said shaft with one of said slidable members, the other of said slidable members being adapted for operative connection to dirigible vehicle wheels and being operatively connected to said piston to be moved thereby, a flexible sheath having one end secured to one of said slidable members and its opposite end secured to a stationary point within said housing adjacent said valve means, and a wire extending through said sheath and operatively connected to the other of said slidable members and to said valve means.

2,391,820
**STORAGE BATTERY**
Robert A. Daily, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application February 17, 1943, Serial No. 476,183. Divided and this application March 21, 1945, Serial No. 583,985
3 Claims. (Cl. 136—177)



1. A storage battery comprising a box having a plurality of cells, covers for the cells providing cell vents, intercell vent bodies connecting the vents in the covers, a terminal cell vent body connected wtih a vent in a cover, said covers having grooves receiving portions of the vent bodies

and sealing compound in the grooves permanently bonded to the vent bodies and covers, said sealing compound having anchorage portions locked into the pores of the contacted surfaces of the vent bodies and covers.

---

2,391,821
**CRACKING OF ALPHA-METHYLSTYRENES**
James Kenneth Dixon, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 7, 1944, Serial No. 543,967
3 Claims. (Cl. 260—669)

1. In a method of converting 4-methyl, alpha-methyl styrene to p-methyl styrene in the vapor phase, the steps of vaporizing the 4-methyl, alpha-methyl styrene, preheating the vaporized material to about 300–500° C. and passing the preheated vapors over a siliceous catalyst maintained at from about 400–575° C.

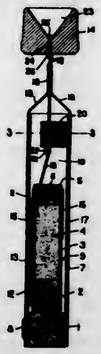
---

2,391,822
**PROCESS FOR PRODUCING 2-AMINOPYRIMIDINES**
Michael N. Dvornikoff, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 9, 1944, Serial No. 539,591
10 Claims. (Cl. 260—251)

1. A method of dehalogenating a chloro-2-aminopyrimidine to the corresponding 2-aminopyrimidine which comprises subjecting the chloro-2-aminopyrimidine to the action of metallic zinc under alkaline conditions in the presence of a salt of a metal selected from the group consisting of bismuth and tin.

---

2,391,823
**IGNITER FOR GRENADES AND THE LIKE**
John Wiley Edmands, Newton Highlands, Mass., assignor to Central Railway Signal Company, Newton, Mass., a corporation of Massachusetts
Application March 13, 1943, Serial No. 479,019
12 Claims. (Cl. 102—70)



1. An igniting device of shorter length than and adapted to be attached to an incendiary bomb having a frangible container filled with a highly flammable material comprising a cartridge closed at one end and having the principal portion thereof filled with a vigorous burning composition, a tubular casing surrounding and spaced from said cartridge and extending well beyond the open end thereof forming a chimney to guide the flame of the burning composition, a primer in proximity to said burning composition having a lanyard extending beyond the end of said casing, and operable when pulled to cause said primer to ignite the burning composition.

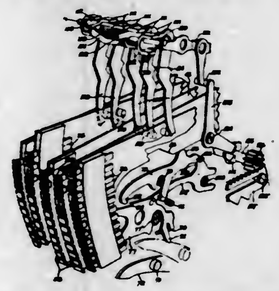
---

2,391,824
**SYNTHESIS OF WOUND HORMONE**
James English, Jr., Hamden, Conn., and James Bonner and Arie J. Haagen-Smit, Pasadena, Calif., assignors to California Institute Research Foundation, Pasadena, Calif., a corporation of California
No Drawing. Original application November 30, 1940, Serial No. 367,950. Divided and this application January 11, 1944, Serial No. 517,238
3 Claims. (Cl. 260—485)

1. A 1-carboxy-10-carbalkoxy-decene-1.

---

2,391,825
**CALCULATING MACHINE**
Arthur J. Fettig, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application January 31, 1942, Serial No. 428,989
19 Claims. (Cl. 101—93)



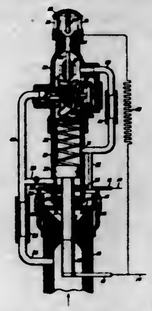
1. A machine of the character specified having a platen with a printing line, a plurality of type carriers each having a normal position, a series of type on each type carrier, means for moving said type carriers from and returning them to their normal positions, means for selectively controlling said movements away from normal of said type carriers to position selected type at said printing line in accordance with amounts to be printed, and means controlled directly by each of said type carriers and conditioned by the type carrier for the highest order of the amount to be printed to act directly upon the type carrier of the next higher order to move the latter to a position to place a predetermined type thereon at said printing line.

---

2,391,826
**FLUID BLAST CIRCUIT BREAKER**
Cedric H. Flurscheim, Bowdon, England, assignor to Metropolitan-Vickers Electrical Company Limited, London W. C. 2, England, a company of Great Britain
Application July 22, 1943, Serial No. 495,745
In Great Britain July 30, 1942
8 Claims. (Cl. 200—148)

1. A fluid blast circuit breaker for high voltage power circuits comprising relatively movable contacts separable to form an arc gap therebetween, means for directing an interrupting blast of fluid adjacent said arc gap for extinguishment of an arc drawn between said contacts, a circuit including a resistance arranged to be connected in





shunt with said arc gap, means for providing an auxiliary arc gap connected in said circuit including said resistance, and means for supplying and controlling a blast of fluid adjacent said auxiliary arc gap in response to the current flowing in said circuit including said resistance.

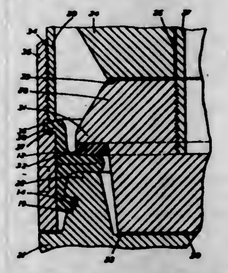
---

2,391,827
**PRODUCTION OF CHLOROPRENE BY PYROLYSIS**
George W. Hearne, Berkeley, and Merrill L. Adams, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Original application December 18, 1939, Serial No. 309,848. Divided and this application July 23, 1941, Serial No. 403,764
12 Claims. (Cl. 260—655)

7. A process for the production of chloroprene which comprises subjecting vapors of a substance selected from the group consisting of 2,3-dichlorbutene-1, 1,2-dichlorbutene-2, 1,3-dichlorbutene-2, and 3,3-dichlorbutene-1 to thermal dehydrochlorination in the absence of a basic agent and of a catalyst at a temperature between about 450° C. and about 650° C., and recovering chloroprene from the resulting mixture.

---

2,391,828
**PILE CASING**
Andrew Hood, Llanwrda, Wales
Application February 14, 1945, Serial No. 577,763
In Great Britain December 29, 1943
9 Claims. (Cl. 61—57)



1. Means for use in the formation of in situ concrete piles, walls, coffer dams and the like in the presence of water, and adapted to be driven into the ground comprising a hollow open-ended casing, a closure member for one end thereof and a connecting member of flexible, water-impervious material, releasably engaging with said closure member and said casing to seal the casing against ingress of water.

---

2,391,829
**DEHYDRATED SOUP**
Louis J. Huber, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application January 9, 1943, Serial No. 471,879
10 Claims. (Cl. 99—124)

1. Process of preparing a dehydrated purée-type soup product which is free from substantial quantities of added fat which comprises forming a cooked soup base containing vegetable material in which the natural tissue structure of the vegetable material is disrupted, forming the cooked soup base into aggregates of large surface area per unit weight, said aggregates being composed of a large number of small particles, said particles being held together by the adhesive qualities of the vegetable material, and drying the aggregates.

---

2,391,830
**REACTION PRODUCTS OF HYDROXYLATED POLYAMINES, HIGHER MOLECULAR WEIGHT CARBOXYLIC ACIDS, AND ORGANIC SULPHONIC ACIDS**
David W. Jayne, Jr., Old Greenwich, and Harold M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 29, 1941, Serial No. 421,106
9 Claims. (Cl. 260—401)

4. Condensation products selected from the group consisting of the higher fatty acid amides and ester-amides of organic sulphonic acid salts of hydroxylated aliphatic polyamines.

---

2,391,831
**CATIONIC ACTIVE COMPOUNDS**
David W. Jayne, Jr., Old Greenwich, and Harold M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 11, 1941, Serial No. 422,542
5 Claims. (Cl. 260—404.5)

1. A process of producing chemical compounds containing the group

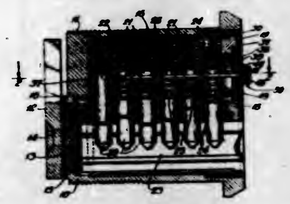
$$R-\overset{O}{\overset{\|}{C}}-O-(CHR')_x-$$

which comprises reacting substantially molecular equivalents of a halogenated ester having the formula

$$R-\overset{O}{\overset{\|}{C}}-O-(CHR')_x-Hal$$

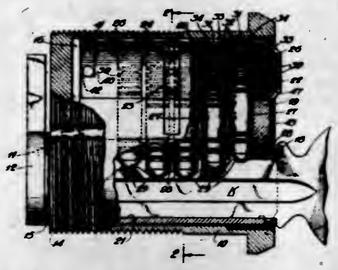
in which R is the acyl radical of an aliphatic fatty acid containing at least ten carbon atoms, R' is a radical selected from the group consisting of hydrogen and the lower alkyl radicals and $x$ is a small whole number with a value of at least two, with an aliphatic polyamine containing at least two amino groups selected from the group consisting of the primary and secondary amino groups at temperatures above about 200° C.

**2,391,832**
**REMOVABLE CORE CYLINDER**
**Theodore H. Johnstone, Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application February 5, 1943, Serial No. 474,805**
**27 Claims. (Cl. 70—367)**



1. In a lock of the class described, a housing, a lock cylinder in said housing, a key plug movable in said lock cylinder, tumblers for interlocking said key plug and lock cylinder to prevent movement of said key plug until said tumblers are properly positioned by a change key, a retainer for retaining said lock cylinder in said housing, control means movably mounted in said cylinder and having a portion extending outwardly of the front face of said cylinder, said control means effecting the release of said retainer when moved relatively to said cylinder, and means whereby said tumblers prevent the release of said retainer by said control means until said tumblers are set in a predetermined position by a control key.

**2,391,833**
**REMOVABLE CORE CYLINDER**
**Theodore H. Johnstone, Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application February 5, 1943, Serial No. 474,806**
**22 Claims. (Cl. 70—367)**



1. In a lock of the class described, a housing, a cylinder lock core in said housing having a front face, a key plug movable in said cylinder lock core, a second plug in said cylinder lock core having its front end accessible for operation at said front face, tumblers mounted for movement in aligned bores formed in said key plug, said cylinder lock core and said second plug, said key plug having a key way accessible at said front face through which said tumblers are positioned to release the key plug and said second plug for movement relatively to said cylinder lock core.

**2,391,834**
**CYLINDER LOCK**
**Theodore H. Johnstone, Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application November 12, 1943, Serial No. 509,964**
**19 Claims. (Cl. 70—363)**



1. In a combination of the class described, a cylindrical key plug, a series of tumblers mounted in bores formed in said key plug parallel to the axis thereof and terminating on the outer end surface thereof whereby said tumblers may be positioned by a key, springs pressing said tumblers toward the said outer end surface, a barrier segment mounted in a peripheral opening in said key plug formed therein transversely of said tumbler bores, the outer periphery of said barrier segment lying within the cylindrical surface of the key plug and having a holding portion extending beyond the said cylindrical surface, a cylinder having a bore in which said key plug is adapted for rotation, and a groove in said cylinder bore for accommodating the holding portion of said barrier segment as said key plug and barrier are inserted endwise into said cylinder bore for thereafter holding said barrier segment against rotation.

**2,391,835**
**METHOD OF PRODUCING DOUBLE FACED PILE FABRICS AND LOOM USED IN THE PRODUCTION THEREOF**
**Robert G. Kavanagh, Philadelphia, Pa., assignor to La France Industries, Frankford, Philadelphia, Pa., a corporation of Pennsylvania**
**Application November 18, 1944, Serial No. 564,082**
**5 Claims. (Cl. 139—21)**

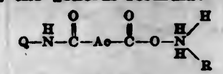



1. In the simultaneous weaving of a plurality of double faced pile fabrics, the improvement which consists in withdrawing ends of severed pile tufts out of the back of the fabrics by pulling weft filling threads engaging said tufts from the backs of the fabrics in directions at angles to the backs of the fabrics, as the fabrics travel lengthwise.



**2,391,836**
**COLOR COMPOSITIONS CONTAINING SALTS OF MONOQUINONYL-ACID-AMIDES**
**Roy Herman Kienle and Chester Albert Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**No Drawing. Application July 1, 1943, Serial No. 493,120**
**10 Claims. (Cl. 8—70)**

1. A color composition comprising a vat dye and a salt of a monoquinonyl amide of a dicarboxylic acid having the general formula:



where R is a member of the group consisting of the alkyl, aminoalkyl, alkylol and aryl radicals, Q represents a radical selected from the group consisting of the naphthaquinonyl and anthraquinonyl radicals, and Ac represents the residue of an acid selected from the group consisting of the cyclic and aliphatic dicarboxylic acids.

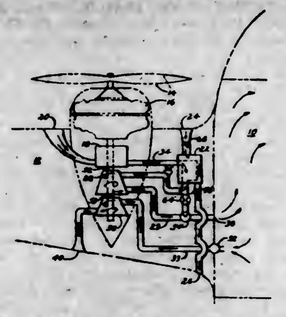
**2,391,837**
**NITROSO BETA NAPHTHOL COMPOSITION**
**Victor L. King, Bound Brook, and Henry Philip Orem, North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application September 7, 1944, Serial No. 553,120**
**2 Claims. (Cl. 106—218)**



2. A free-flowing, non-dusting pelletized mass comprising crystals of nitroso beta naphthol cemented with an eutectic comprising nitroso beta naphthol and abietic acid.

**2,391,838**
**AIR CONDITIONING SYSTEM**
**Earl Schuyler Kleinhans, Santa Monica, and Wilbur W. Reaser, Pacific Palisades, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.**
**Application June 19, 1944, Serial No. 541,029**
**15 Claims. (Cl. 257—9)**

1. In a pressure system for an aircraft the combination of: an air compressor; an intake to the compressor from the ambient atmosphere; a discharge conduit system leading from the compressor to the ambient atmosphere including an inlet air duct to the cabin of the aircraft and an outlet duct from the cabin to the ambient atmosphere; a heat interchanger in the inlet duct; means for supplying a coolant fluid to the interchanger; an expansion turbine in said inlet duct intermediate said heat interchanger and said cabin; a second expansion turbine in said



outlet duct; and means for delivering the power generated in both turbines to said compressor.

**2,391,839**
**TREATMENT OF ALKYL PHENOLS**
**Clifford T. Magin, Los Angeles, and Lloyd C. Fetterly, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**Application August 23, 1943, Serial No. 499,726**
**9 Claims. (Cl. 260—621)**

1. A process for removing dissolved water from alkyl phenols containing it and water-soluble carboxylic acid salts comprising thoroughly contacting said alkyl phenols with from about 1 to 10 volumes of water under conditions to produce a mixture having a pH value below about 9.5 and separating from the mixture an alkyl phenol phase of substantially lower water content than said starting alkyl phenols and an aqueous phase containing at least a part of said carboxylic acid salts.

**2,391,840**
**SPRING-WOUND CORD-CONTROLLED TAKE-UP REEL**
**Adolph Meletti, Philadelphia, Pa., assignor to Vacuum Cleaner Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania**
**Application November 4, 1944, Serial No. 561,864**
**3 Claims. (Cl. 242—107)**

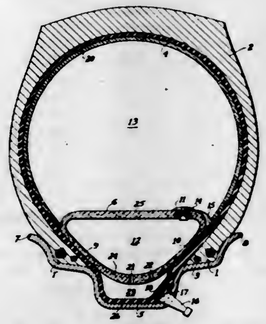


1. A spring-wound and cord-controlled take-up reel, including a pivotally mounted reel, relatively stationary pivotation means therefor, take-up means operatively deposed between said reel and said pivotation means, tending to rotate said reel in a take-up direction, a ratchet-wheel fixedly carried by said pivotation means and having a recess and having a dwell on either side of said recess, a pivoted pawl carried by said reel in operative alignment with said ratchet-wheel having a locking face in the direction of the take-up motion of the reel and having a non-locking face in the direction of the pay-out mo-

tion of the reel, a spring connected with said pawl urging said pawl in the direction of the ratchet-wheel, a pivoted cam carried by said reel in operative juxtaposition to said ratchet-wheel and to said pawl and having a cam-point extending into the notch of said ratchet-wheel when said notch is on a center-line of the reel-pivotation and cam-pivotation; said cam-point having non-locking cam-surfaces on both sides thereof, a spring connected with said cam and urging said cam-point toward said ratchet-wheel when deflected out of said notch in either direction, and means on said pivoted pawl and means on said cam, in operative juxtaposition to each other, whereby said cam will deflect the pawl clear of the ratchet-wheel when the cam-point is deflected in the direction of the pay-out rotation of the reel and whereby the cam will free the pawl for locking engagement with the notch of the ratchet-wheel when the cam-point is deflected in the direction of the take-up rotation of the reel.

---

**2,391,841**
**TIRE CONSTRUCTION**
**Bernard E. Mendelsohn, Brookline, Mass., assignor, by direct and mesne assignments, of forty-two and one-half per cent to B. Howard Benson, Boston, Mass., and fifteen per cent to Irving Fisher, New Haven, Conn.**
**Application March 19, 1942, Serial No. 435,359**
**5 Claims. (Cl. 152—342)**



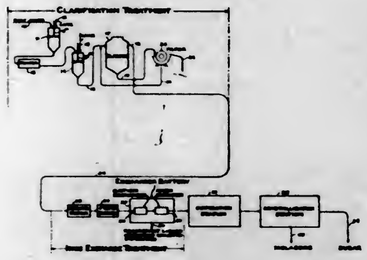
2. In combination with the rim of a wheel and with a pneumatic tire casing having beads with clamping surfaces facing the rim of the wheel on which the casing fits, an expansible inner tube adapted to be inflated to fill out the inner space of the casing, a substantially non-expansible flexible tube having a top section extending across the inner tube from a point near the level of the rim edge from one side to the other side and having side walls joined to the side walls of the expansible tube adjacent the section of the tire casing which abuts against the rim of the wheel said non expansible flexible tube having a bottom section with a base portion curved radially inward in the base, said non-expansible tube partitioning by means of the top section of the non expansible tube said inner tube into two chambers, one of said chambers being formed by the space within said non-expansible tube and the space closed off by the non-expansible tube and the section of the expansible inner tube adjacent the rim of the wheel, said non-expansible tube having an air connecting passage to the space within the inner tube adjacent the rim of the wheel.

**2,391,842**
**LUBRICATING GREASES**
**John D. Morgan, South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania**
**No Drawing. Application October 16, 1942, Serial No. 462,221**
**12 Claims. (Cl. 252—37)**

1. A lubricating composition having a grease structure made by heating a mixture comprised principally of a lubricating oil and from about 4% to about 20% by weight of a silver soap of a higher fatty acid to a temperature of approximately 400° F., said composition having a stable plastic gel-like consistency.

---

**2,391,843**
**PURIFICATION OF SUGAR SOLUTIONS**
**Franklin Nathan Rawlings, Westport, Conn., assignor to The Dorr Company, New York, N. Y., a corporation of Delaware**
**Application November 7, 1941, Serial No. 418,111**
**1 Claim. (Cl. 127—46)**



A process for the removal of impurities from cane sugar juice, which comprises heating and liming the juice with calcium compound to a pH in excess of 8.6 and not in excess of the order of 10.0 to effect coagulation of solid phase impurities in the juice, separating the coagulated matter to obtain a juice that is clarified but which contains dissolved impurities including excess calcium compound at least partially as calcium-glucose compound formed by excess Ca reacting with glucose in the cane juice and thereby forming calcium glucose compounds, and subjecting the thus clarified juice to sequential treatment in a bed of cation exchanging material operating in the hydrogen ion cycle and in a bed of anion exchanging acid adsorption material operating in the hydroxyl cycle to effect substantial elimination of dissolved impurities including calcium introduced by the liming while re-constituting glucose as such from said calcium-glucose compounds.

---

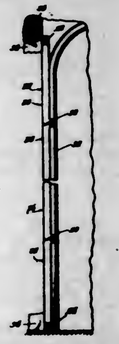
**2,391,844**
**PROTECTING MAGNESIUM AND ITS ALLOYS FROM FIRE**
**James B. Reid, New York, N. Y., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application February 7, 1944, Serial No. 521,435**
**5 Claims. (Cl. 117—137)**

1. The method of protecting an article of magnesium from ignition by fire which comprises applying over the surface of the article a film-forming organic liquid coating composition having incorporated therein a comminuted metal fluoride having a melting point above that of magnesium and adapted to protect it from ignition by fire, so as to form a coating thereon, and allowing the coating to harden.



---

**2,391,845**
**OVERHEAD DOOR CONSTRUCTION**
**Alvin V. Rowe, Galesburg, Ill., assignor to Rowe Manufacturing Company, Galesburg, Ill., a corporation of Illinois**
**Application January 10, 1945, Serial No. 572,127**
**12 Claims. (Cl. 160—201)**



1. An overhead door construction including upright and horizontally disposed door guiding means, and a door comprising a plurality of hingedly connected door sections shiftable within said guiding means between upright closed position and overhead open position, said door including a metal door section formed from an elongated metallic sheet bent back upon itself along its opposite elongated margins to present upper and lower section rails, and hinge means integral with said rails and forming counterparts for companion hinge means on the next adjacent door section.

---

**2,391,846**
**CORN HARVESTER HUSKING ROLL**
**Charles J. Scranton, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware**
**Application November 6, 1943, Serial No. 509,217**
**19 Claims. (Cl. 130—5)**



1. In a corn harvester, a husking roll having an aperture therein opening through the peripheral surface of the roll, a husking device mounted in said aperture and comprising a support insertible inwardly through said aperture to normal operative position therewithin and having a peripheral abutment portion adjacent its outer end, the outer end of said support being provided with a recess, said support being held in position within said aperture with the outer face of said abutment portion in forcible engagement with an inwardly facing abutment surface of said roll adjacent said aperture, and a husking element carried by said support and having a resiliently yieldable portion carrying a husking point normally projecting beyond the periphery of said roll, said resiliently yieldable portion of said husking element being deformable to retract said husking point to a position within said recess.



---

**2,391,847**
**5-NITROHEXAHYDROPYRIMIDINES AND PROCESS FOR PREPARATION THEREOF**
**Murray Senkus, Terre Haute, Ind.**
**No Drawing. Application July 29, 1944, Serial No. 547,261**
**12 Claims. (Cl. 260—251)**

1. A process for the preparation of 5-nitrohexahydropyrimidines, which comprises bringing a primary amine into reaction with a nitrohydrocarbon having a nitro group attached to a primary carbon atom, in the presence of formaldehyde, the latter being employed in a ratio of at least two moles to one of nitrohydrocarbon and two moles of primary amine.

---

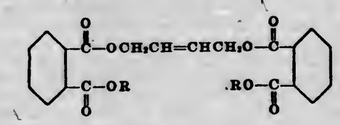
**2,391,848**
**AMMONOLYSIS OF ARYL HALIDES**
**Harold R. Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan**
**No Drawing. Application July 2, 1942, Serial No. 449,510**
**7 Claims. (Cl. 260—581)**

1. In a method wherein an aromatic amine is prepared by reacting ammonia with an aryl halide in the presence of a copper-containing catalyst and within a reactor constructed of a ferrous metal, the step of carrying the reaction out in the presence of a compound selected from the class consisting of the oxides and hydroxides of calcium, tin, lead, arsenic, and antimony, said compound being employed in amount corresponding to less than 0.25 molecular-equivalent thereof per mole of the aryl halide reactant, whereby corrosion of the reactor is inhibited.

---

**2,391,849**
**REACTION PRODUCTS OF 1,4-DICHLORO-2-BUTENE**
**Robert F. Taylor, Terre Haute, Ind.**
**No Drawing. Application March 25, 1944, Serial No. 528,174**
**4 Claims. (Cl. 260—475)**

1. 2-butene-1,4-diol dialkyl diphthalates having the following structural formula:



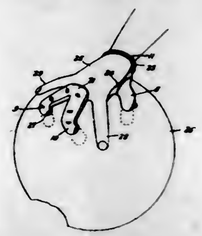
wherein the substituent R represents an alkyl group.

2,391,850
**NUTRITIONAL PREPARATIONS AND PROCESS**
Arnold D. Welch, Overbrook Hills, and Lemuel D. Wright, Edgewood Park, Pa., assignors to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application June 3, 1944, Serial No. 538,710
9 Claims. (Cl. 99—11)

1. The process of improving the nutritional qualities of food products and vitamin preparations, both of which contain folic acid, which comprises treating such starting materials with a xanthopterin-substance adapted to enhance the available folic acids content of, and prevent the destruction of folic acids in, the starting materials.

---

2,391,851
**BOWLING GLOVE**
Ellery Donald Willard, Johnstown, N. Y.
Application November 17, 1942, Serial No. 465,867
1 Claim. (Cl. 2—21)

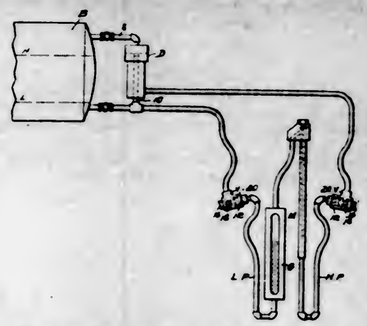


A glove particularly for use with bowling balls, comprising a palm section having an opening for the thumb of the wearer; a thumb sheath seamed to the palm section around said opening; a front and side portion for the second finger of the wearer; a front and side portion for the third finger of the wearer, said front and side portions being integral with each other and the front portions being integral with the palm section; a fourchette seamed to each front section; back finger sections for both front portions connected together by an integral back strip at the base of the fingers, each finger section being seamed to its front section and fourchette to form complete second and third finger sheaths; and means secured to the wrist end of the palm section to secure the glove on the hand of the wearer.

---

2,391,852
**LIQUID LEVEL INDICATOR**
Lewis B. Winton, Greenwich, Conn., assignor, by mesne assignments, to Jerguson Gage & Valve Company, Somerville, Mass., a corporation of Massachusetts
Application October 15, 1942, Serial No. 462,681
8 Claims. (Cl. 73—299)

1. A liquid level indicating mechanism for use with containers subject to bodily displacement angularly comprising a differential manometer, connecting means for placing one side of the manometer in communication with the body of liquid being measured and the other side in communication with a source of fixed hydrostatic pressure, said connecting means having interposed therein a pair of valves each comprising a seat and a loose valve ball and means for supporting the ball such that it gravitates bodily away from its seat when the container is in normal upright position but rolls into cooperation therewith when the container is inclined



through a small angle in a direction to depress the seat, the two valves closing respectively pursuant to inclinations in opposite directions.

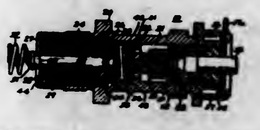
---

2,391,853
**PROCESS FOR PRODUCTION OF SULPHANILAMIDE DERIVATIVES**
Ferdinand B. Zienty, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 10, 1942, Serial No. 457,860
5 Claims. (Cl. 260—239.6)

1. The process of producing $N^4$-succinylsulphathiasole which comprises the reaction of succinic anhydride with sulphathiasole in the presence of acetone as a solvent.

---

2,391,854
**GROUNDING MECHANISM FOR MAGNETOS**
Herman L. Hartzell, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 6, 1944, Serial No. 538,936
8 Claims. (Cl. 171—209)



1. A condenser and magneto primary grounding unit adapted to be detachably attached to a magneto housing comprising, a metal body provided with a through opening and being internally restricted intermediate its ends to provide an abutment; a condenser unit having a metal core fixed in one end of the opening so that the inner end of the core is spaced from the abutment; a coil spring of conducting material disposed between the core and the abutment, said core, spring and abutment when in their normal position cooperate to provide a ground connection when the body is attached to the housing; conducting means insulatingly supported at the other end of the body and adapted to engage electrically the spring; and means for moving the conducting means against the biasing force of the spring to compress the spring out of engagement with the abutment to break the ground connection.



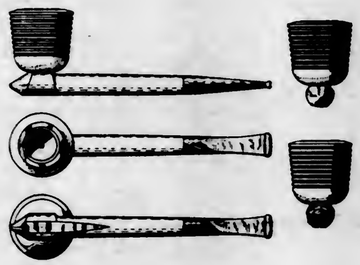
2,391,855
**PLASTER BODY AND METHOD OF MAKING**
Xarifa Beiss, Yellow Springs, Ohio
No Drawing. Application August 9, 1941, Serial No. 406,173
7 Claims. (Cl. 22—192)

1. The method of making molds for reproduction of patterns by casting, which comprises making a fluid mix of a gypsum plaster composition, water, potassium hydroxide in amount equal to about one-fourth to two percent by weight of the calcium sulfate, meta phosphoric acid in amount about one-tenth that of the potassium hydroxide, finely divided sulfur in amount equal to about two percent by weight of the calcium sulfate, setting said plaster mix on a pattern, removing the set plaster body from the pattern, air-drying the mold surface of said body, impregnating said surface with a weak solution of alkali silicate, impregnating said surface with a solution of a few percent cadmium chloride, heating the thus treated plaster body in an atmosphere of steam at pressure between 10 and 30 lbs. per square inch, removing the plaster body from the steam and allowing it to cool to room temperature and to remain moist until the desired colitic structure has developed, and then drying the mold body in a current of drying gas at a temperature about 140°–200° C.

# DESIGNS

DECEMBER 25, 1945

143,257
**DESIGN FOR A SMOKING PIPE**
Howard Abrams, University Heights, Ohio
Application September 10, 1945, Serial No. 121,979
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a smoking pipe, substantially as shown.

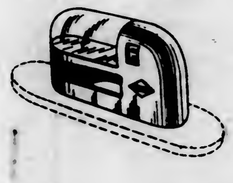
143,258
**DESIGN FOR AN INTERMEDIATE BEARING AND BEARING RETAINER FOR ROTATING SHAFTS POSITIONED IN A COLUMN**
Leonard Aker, Atherton, Calif., assignor, by mesne assignments, to Fairbanks, Morse & Co., a corporation of Illinois
Application July 24, 1944, Serial No. 114,537
Term of patent 14 years
(Cl. D46—1)



The ornamental design for an intermediate bearing and bearing retainer for rotating shafts positioned in a column, as shown.

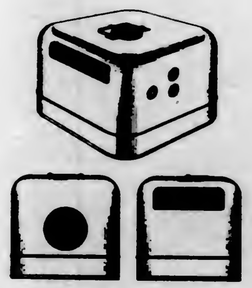


143,259
**DESIGN FOR A COMBINED DISPENSING AND ARTICLE DISPLAY CABINET**
Albert E. Aldridge, Elkins Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application March 30, 1945, Serial No. 118,792
Term of patent 14 years
(Cl. D52—2)



The ornamental design for combined dispensing and article display cabinet, as shown and described.

143,260
**DESIGN FOR A PORTABLE ENGINE POWER UNIT HOUSING**
Peter Altman, Detroit, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application January 5, 1945, Serial No. 117,281
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a portable engine power unit housing, as shown.

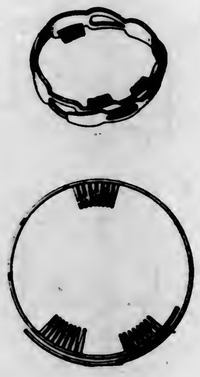


143,261
**DESIGN FOR A GAME BOARD**
Alfred L. Barrett, Staten Island, N. Y.
Application March 1, 1945, Serial No. 118,262
Term of patent 14 years
(Cl. D34—5)



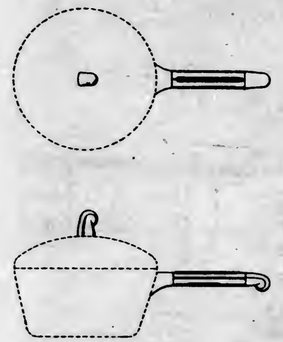
The ornamental design for a game board, as shown.

143,262
**DESIGN FOR A HAIR ORNAMENT**
Siegfried Behr, Flushing, N. Y.
Application July 14, 1945, Serial No. 120,709
Term of patent 14 years
(Cl. D86—10)



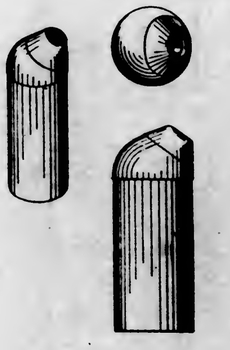
The ornamental design for a hair ornament, as shown.

143,263
**DESIGN FOR A SAUCEPAN**
Daniel T. Bergman, San Francisco, Calif.
Application March 12, 1945, Serial No. 118,427
Term of patent 14 years
(Cl. D44—1)



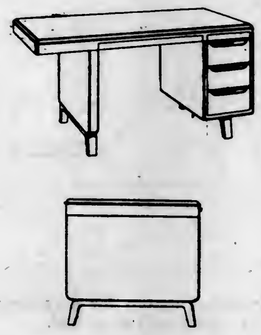
The ornamental design for a saucepan, substantially as shown and described.

143,264
**DESIGN FOR AN ATOMIZER**
Carsten F. Bee, Wilmington, Del.
Application August 2, 1945, Serial No. 121,178
Term of patent 14 years
(Cl. D83—1)



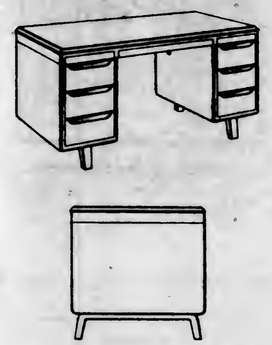
The ornamental design for an atomizer, as shown.

143,265
**DESIGN FOR A DESK**
George C. Brainard, Youngstown, Ohio, and Raymond Loewy, New York, N. Y., assignors to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application June 22, 1945, Serial No. 120,257
Term of patent 14 years
(Cl. D33—7)



The ornamental design for a desk, as shown.

143,266
**DESIGN FOR A DESK**
George C. Brainard, Youngstown, Ohio, and Raymond Loewy, New York, N. Y., assignors to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application June 22, 1945, Serial No. 120,260
Term of patent 14 years
(Cl. D33—7)



The ornamental design for a desk, as shown.

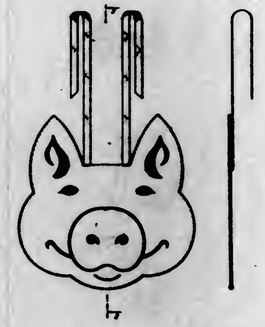


143,267
**DESIGN FOR A CIGARETTE BOX OR SIMILAR RECEPTACLE**
Eric Burtin, Los Angeles, Calif.
Application March 19, 1945, Serial No. 118,588
Term of patent 7 years
(Cl. D65—2)



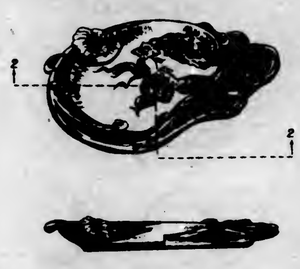
The ornamental design for a cigarette box or similar receptacle, substantially as shown.

143,268
**DESIGN FOR A CHILD'S BIB**
Margaret Mann Cameron, New York, N. Y.
Application August 2, 1945, Serial No. 121,174
Term of patent 3½ years
(Cl. D3—36)



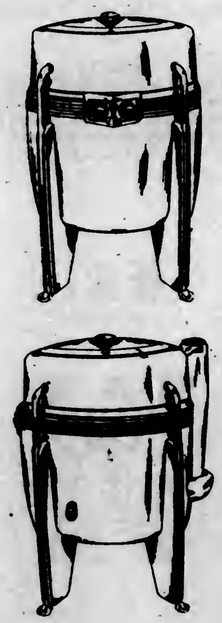
The ornamental design for a child's bib, as shown.

143,269
**DESIGN FOR AN ASH TRAY**
John B. Canepa, Redwood City, Calif.
Application December 18, 1944, Serial No. 116,973
Term of patent 14 years
(Cl. D65—2)



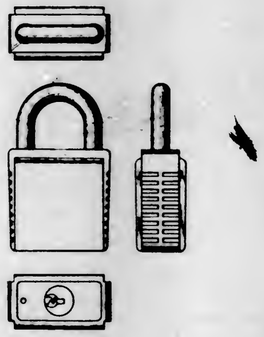
The ornamental design for an ash tray, substantially as shown.

143,270
**DESIGN FOR A WASHING MACHINE**
David Chapman, Chicago, Ill., assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio, a corporation of Ohio
Application March 24, 1945, Serial No. 118,663
Term of patent 14 years
(Cl. D49—1)



The new ornamental design for a washing machine, substantially as shown and described.

143,271
**DESIGN FOR A PADLOCK**
Francesco Collura, New York, N. Y., assignor to The Eagle Lock Company, Terryville, Conn., a corporation of Connecticut
Application April 11, 1945, Serial No. 118,945
Term of patent 7 years
(Cl. D50—8)



The ornamental design for a padlock, as shown.

143,272
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Application March 12, 1945, Serial No. 118,428
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown and described.

143,273
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,963
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown and described.

143,274
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,964
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown and described.

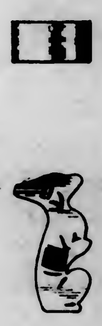


143,275
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,965
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown and described.

143,276
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,966
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown and described.

143,277
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,967
Term of patent 14 years
(Cl. D34—15)



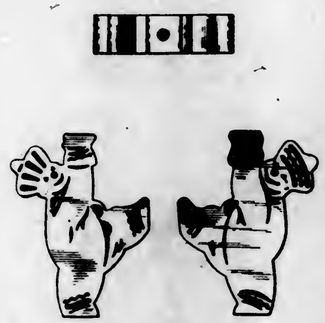
The ornamental design for a toy building block, substantially as shown and described.

143,278
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohua, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,968
Term of patent 14 years
(Cl. D34—15)



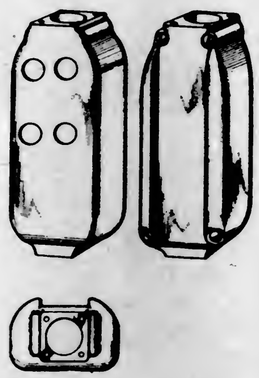
The ornamental design for a toy building block, substantially as shown and described.

143,279
**DESIGN FOR A TOY BUILDING BLOCK**
Castro M. Dabrohns, Winnetka, Ill.
Original application March 12, 1945, Serial No. 118,428. Divided and this application July 26, 1945, Serial No. 120,969
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy building block, substantially as shown.

143,280
**DESIGN FOR A SWITCH HOUSING**
Victor L. Darnell, Centerville, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application May 3, 1944, Serial No. 113,446
Term of patent 14 years
(Cl. D26—13)



The ornamental design for a switch housing, substantially as shown.

143,281
**DESIGN FOR A BABY CARRIER**
Chris A. De Pirro, Chicago, Ill.
Application June 14, 1945, Serial No. 120,059
Term of patent 3½ years
(Cl. D68—4)



The ornamental design for a baby carrier, substantially as shown.

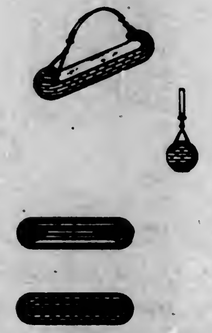
143,282
**DESIGN FOR A BABY CARRIER**
Chris A. De Pirro, Chicago, Ill.
Application June 14, 1945, Serial No. 120,060
Term of patent 3½ years
(Cl. D58—4)



The ornamental design for a baby carrier, substantially as shown.

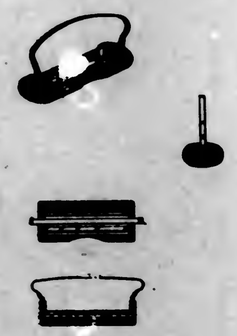


143,283
**DESIGN FOR A BABY CARRIER**
Chris A. De Pirro, Chicago, Ill.
Application June 14, 1945, Serial No. 120,061
Term of patent 3½ years
(Cl. D58—4)



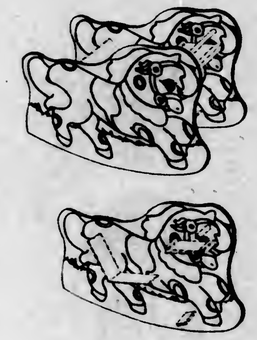
The ornamental design for a baby carrier, substantially as shown.

143,284
**DESIGN FOR A BABY CARRIER**
Chris A. De Pirro, Chicago, Ill.
Application June 14, 1945, Serial No. 120,062
Term of patent 3½ years
(Cl. D58—4)



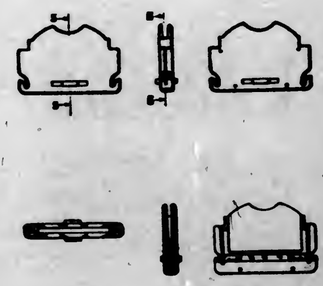
The ornamental design for a baby carrier, substantially as shown.

143,285
**DESIGN FOR A ROCKING HORSE**
Arthur C. De Vera, Cleveland Heights, Ohio
Application July 6, 1945, Serial No. 120,544
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a rocking horse, as shown and described.

143,286
**DESIGN FOR A COMBINED NEEDLE THREADER AND NEEDLE CARD HOLDING DEVICE**
Samuel A. de Waltoff, Los Angeles, Calif., assignor to Delcit Enterprises, Inc., Los Angeles, Calif., a corporation of California
Application June 22, 1945, Serial No. 120,264
Term of patent 14 years
(Cl. D3—19)



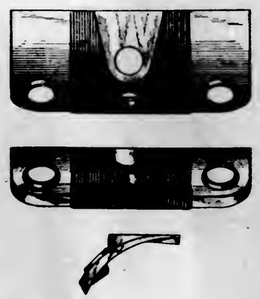
The ornamental design for a combined needle threader and needle card holding device, as shown.

143,287
**DESIGN FOR A FAUCET HANDLE OR THE LIKE**
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,240
Term of patent 14 years
(Cl. D91—3)



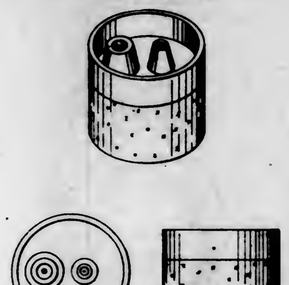
The ornamental design for a faucet handle or the like, substantially as shown.

143,288
**DESIGN FOR AN ESCUTCHEON FOR SINK FITTINGS**
Henry Dreyfuss, New York, N. Y., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,249
Term of patent 14 years
(Cl. D91—3)



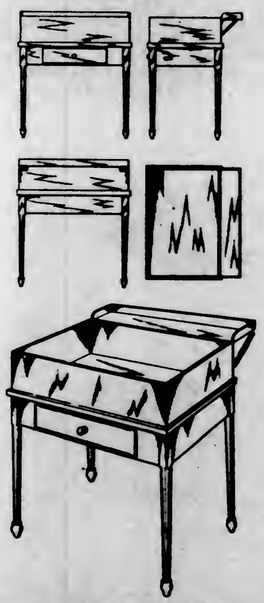
The ornamental design for an escutcheon for sink fittings, substantially as shown.

143,289
**DESIGN FOR A CLOSURE CAP FOR A TWO-COMPARTMENT CONTAINER**
William D. Elsea, Kew Gardens, Paul Lowengrdt, Forest Hills, and Alexander Scheftel, New York, N. Y.
Application April 2, 1945, Serial No. 118,820
Term of patent 3½ years
(Cl. D58—26)



The ornamental design for a closure cap for a two-compartment container, as shown.

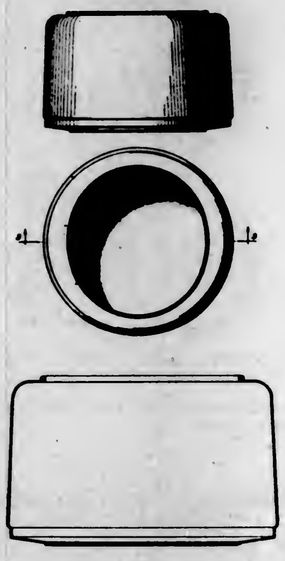
143,290
**DESIGN FOR AN INFANT'S DRESSING AND RUBBING TABLE**
Eugene M. Elson, Los Angeles, Calif.
Application June 9, 1945, Serial No. 119,987
Term of patent 7 years
(Cl. D33—14)



The ornamental design for an infant's dressing and rubbing table, as shown.

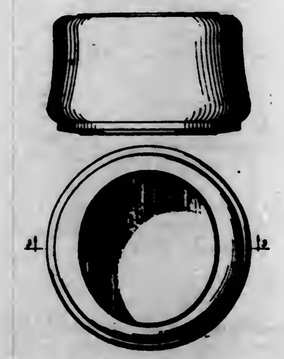


143,291
**DESIGN FOR A PRESSURE COOKER**
Simon W. Farber, Brooklyn, N. Y.
Application January 22, 1945, Serial No. 117,547
Term of patent 14 years
(Cl. D44—1)

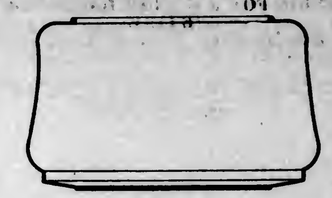


The ornamental design for a pressure cooker, as shown.

143,292
**DESIGN FOR A PRESSURE COOKER**
Simon W. Farber, Brooklyn, N. Y.
Application January 22, 1945, Serial No. 117,548
Term of patent 14 years
(Cl. D44—1)



143,292—Continued



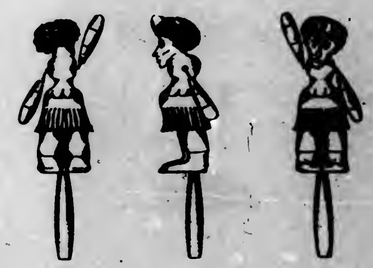
The ornamental design for a pressure cooker, as shown.

143,293
**DESIGN FOR A SURFACE SANDER**
Joseph L. Feild, Detroit, Mich.
Application June 8, 1945, Serial No. 119,961
Term of patent 14 years
(Cl. D37—1)



The ornamental design for a surface sander, as shown.

143,294
**DESIGN FOR A FIGURE TOY**
Adelbert F. Filer, Memphis, Tenn., assignor of one-half to Martin J. Condon, Memphis, Tenn.
Application June 11, 1945, Serial No. 120,022
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a figure toy, substantially as shown.

143,295
**DESIGN FOR A CIGARETTE AND CIGAR LIGHTER**
Edwill Fisher, Minneapolis, Minn., assignor to Fisher Flame, Minneapolis, Minn., a copartnership
Application November 23, 1944, Serial No. 116,502
Term of patent 14 years
(Cl. D48—27)



The ornamental design for cigarette and cigar lighter, substantially as shown.

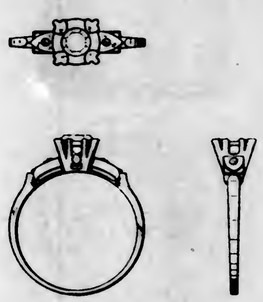
---

143,296
**DESIGN FOR A BOTTLE**
Fred Frederics, New York, N. Y.
Application July 27, 1945, Serial No. 121,007
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, substantially as shown.

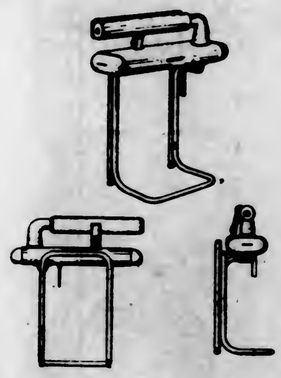
143,297
**DESIGN FOR A FINGER RING**
Charles Gantwarg, New York, N. Y., assignor to Colonial Mfg. Co., Inc., New York, N. Y., a corporation of New York
Application May 5, 1944, Serial No. 113,488
Term of patent 3½ years
(Cl. D45—10)



The ornamental design for a finger ring, substantially as shown.

---

143,298
**DESIGN FOR A COMBINED IRONING MACHINE AND STAND**
Andrew H. Gerhardt, Skokie, and Arthur P. Schulz, Hinsdale, Ill., assignors to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application March 19, 1945, Serial No. 118,566
Term of patent 14 years
(Cl. D49—6)



The ornamental design for a combined ironing machine and stand, substantially as shown.



143,299
**DESIGN FOR A COMBINED IRONING MACHINE, LAP BOARD, AND STAND**
Andrew H. Gerhardt, Skokie, and Arthur P. Schulz, Hinsdale, Ill., assignors to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application March 19, 1945, Serial No. 118,567
Term of patent 14 years
(Cl. D49—6)



The ornamental design for a combined ironing machine, lap board, and stand, substantially as shown and described.

---

143,300
**DESIGN FOR AN ASH TRAY**
Samuel L. Gerson, Millville, N. J.
Application September 11, 1945, Serial No. 122,020
Term of patent 7 years
(Cl. D65—2)



The ornamental design for an ash tray, as shown.

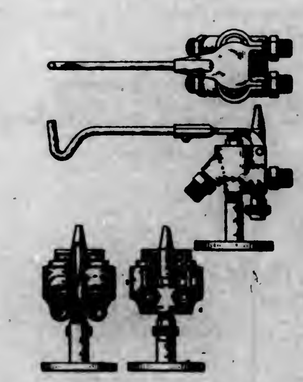
143,301
**DESIGN FOR A MIXING DEVICE**
Henry Gilbert, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 5, 1945, Serial No. 118,258
Term of patent 7 years
(Cl. D44—1)



The ornamental design for a mixing device, as shown.

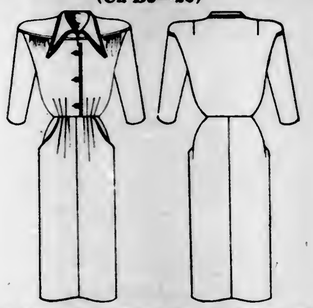
---

143,302
**DESIGN FOR A GAS SAVER**
Guy F. Goddeau, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Application August 6, 1945, Serial No. 121,252
Term of patent 7 years
(Cl. D84—13)



The ornamental design for a gas saver, as shown.

143,303
**DESIGN FOR A DRESS**
Zelma Golden, New York, N. Y.
Application August 27, 1945, Serial No. 121,639
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

143,304
**DESIGN FOR A DRESS**
Zelma Golden, New York, N. Y.
Application August 27, 1945, Serial No. 121,642
Term of patent 3½ years
(Cl. D3—26)



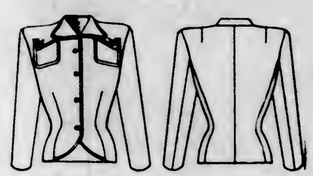
The ornamental design for a dress, substantially as shown.

143,305
**DESIGN FOR A DRESS**
Zelma Golden, New York, N. Y.
Application September 10, 1945, Serial No. 121,961
Term of patent 3½ years
(Cl. D3—26)



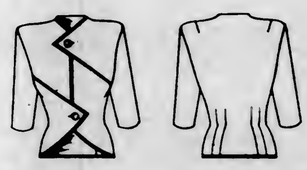
The ornamental design for a dress, substantially as shown.

143,306
**DESIGN FOR A JACKET**
Zelma Golden, New York, N. Y.
Application August 27, 1945, Serial No. 121,641
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

143,307
**DESIGN FOR A JACKET**
Zelma Golden, New York, N. Y.
Application August 27, 1945, Serial No. 121,644
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket, substantially as shown.

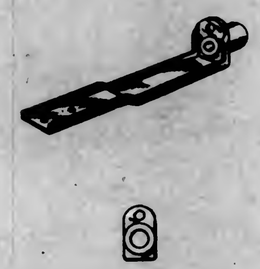
143,308
**DESIGN FOR A TELEPHONE JACK BRACKET**
Leslie B. Haigh, West Orange, and Franklin A. Stearn, Westfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application March 17, 1945, Serial No. 118,529
Term of patent 14 years
(Cl. D26—13)



The ornamental design for a telephone jack bracket, as shown.



143,309
**DESIGN FOR A TELEPHONE JACK BRACKET**
Leslie B. Haigh, West Orange, and Franklin A. Stearn, Westfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application March 17, 1945, Serial No. 118,530
Term of patent 14 years
(Cl. D26—13)



The ornamental design for a telephone jack bracket, as shown.

143,310
**DESIGN FOR A VEHICLE SIGNAL LIGHT**
Eric R. Hallman, Philadelphia, Pa., assignor to Electric Service Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application July 20, 1945, Serial No. 120,824
Term of patent 3½ years
(Cl. D42—32)



The ornamental design for a vehicle signal light, as shown.

143,311
**DESIGN FOR A COMPACT**
Pearl Harper, Los Angeles, Calif.
Application December 11, 1944, Serial No. 118,825
Term of patent 7 years
(Cl. D26—19)



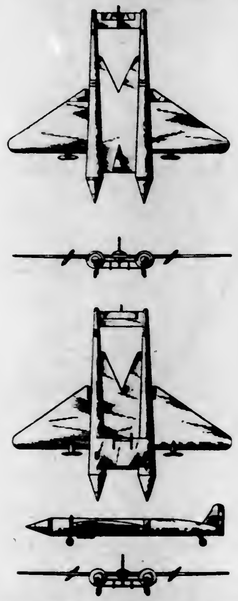
The ornamental design for a compact, as shown.

143,312
**DESIGN FOR A TABLE**
David M. Harrison, New York, N. Y.
Application February 27, 1945, Serial No. 118,162
Term of patent 7 years
(Cl. D32—14)



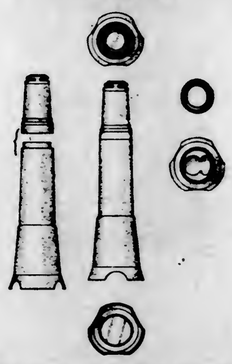
The ornamental design for a table, substantially as shown.

143,313
**DESIGN FOR A COMBINATION AIRPLANE AND SUBMARINE**
Houston Harrington, Macon, Miss.
Application April 17, 1945, Serial No. 119,067
Term of patent 3½ years
(Cl. D71—1)



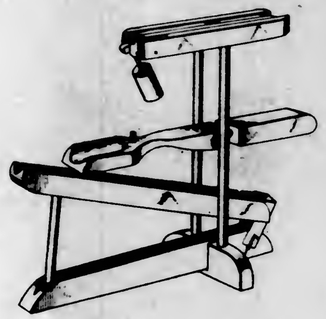
The ornamental design for a combination airplane and submarine, as shown.

143,314
**DESIGN FOR A TOOTHBRUSH HOLDER**
Fred E. Hart, deceased, late of South Gate, Calif., by Ruth L. Hart, executrix, South Gate, Calif.
Application February 17, 1945, Serial No. 118,006
Term of patent 14 years
(Cl. D86—10)



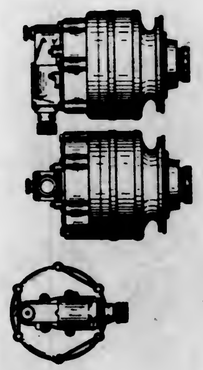
The ornamental design for a toothbrush holder, as shown.

143,315
**DESIGN FOR A MARBLE RUNWAY TOY**
Glenn E. Hatcher, Tulsa, Okla.
Application May 25, 1945, Serial No. 119,719
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a marble runway toy, as shown.

143,316
**DESIGN FOR AN ENGINE STARTER**
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application December 16, 1944, Serial No. 116,942
Term of patent 14 years
(Cl. D26—5)



The ornamental design for an engine starter, substantially as shown.



143,317
**DESIGN FOR A BRACELET OR SIMILAR ARTICLE**
William W. Hebé, New York, N. Y.
Application August 20, 1945, Serial No. 121,506
Term of patent 7 years
(Cl. D46—4)



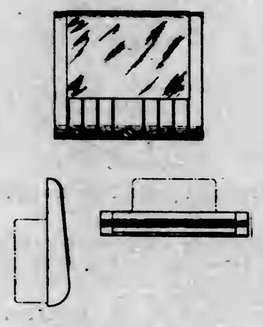
The ornamental design for a bracelet or similar article, substantially as shown.

143,318
**DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE**
William W. Hebé, New York, N. Y.
Application August 20, 1945, Serial No. 121,507
Term of patent 7 years
(Cl. D45—19)



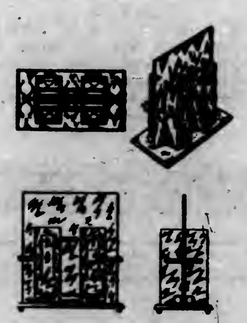
The ornamental design for a brooch pin or similar article, substantially as shown.

143,319
**DESIGN FOR AN INSTRUMENT CASE**
Robert Holley, Pemfield Downs, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application May 5, 1945, Serial No. 119,413
Term of patent 7 years
(Cl. D82—3)



The ornamental design for an instrument case, substantially as shown and described.

143,320
**DESIGN FOR A DISPLAY STAND OR SIMILAR ARTICLE**
Myer B. Herten, New York, N. Y.
Application August 11, 1945, Serial No. 121,390
Term of patent 14 years
(Cl. D86—9)



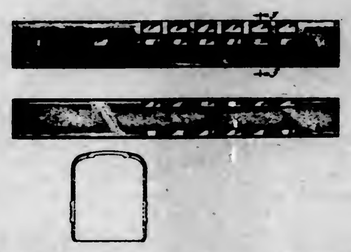
The ornamental design for a display stand or similar article, substantially as shown.

143,321
**DESIGN FOR A TEACUP**
Marion L. Hubbard, Carmel, N. Y.
Application July 24, 1945, Serial No. 129,926
Term of patent 14 years
(Cl. D44—9)



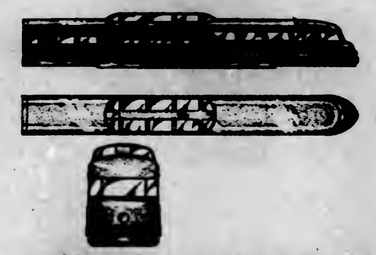
The ornamental design for a teacup, as shown.

143,322
**DESIGN FOR A RAILWAY CAR BODY**
George A. Jergenson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 30, 1945, Serial No. 119,313
Term of patent 14 years
(Cl. D66—1)



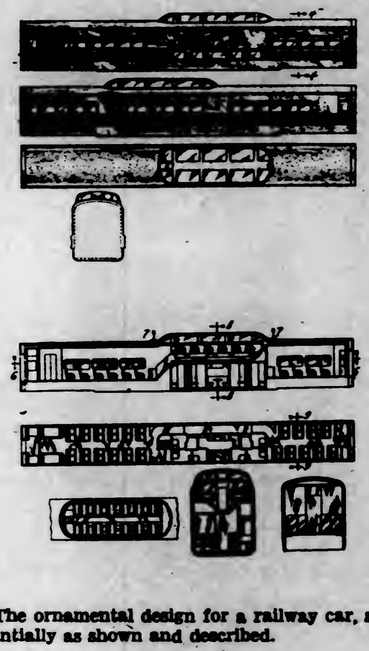
The ornamental design for a railway car body, substantially as shown and described.

143,323
**DESIGN FOR A RAILWAY CAR BODY**
George A. Jergenson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 7, 1945, Serial No. 119,443
Term of patent 14 years
(Cl. D66—1)



The ornamental design for a railway car body, substantially as shown and described.

143,324
**DESIGN FOR A RAILWAY CAR**
George A. Jergenson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 30, 1945, Serial No. 119,314
Term of patent 14 years
(Cl. D66—1)



The ornamental design for a railway car, substantially as shown and described.

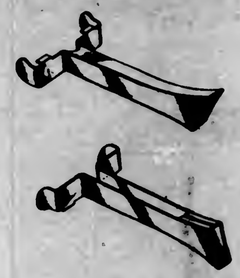
143,325
**DESIGN FOR A COMBINED ASH TRAY AND CIGARETTE SERVER OR THE LIKE**
Norman E. Kanter, New York, N. Y.
Application October 24, 1945, Serial No. 123,135
Term of patent 3½ years
(Cl. D85—2)



The ornamental design for a combined ash tray and cigarette server or the like, as shown.



143,326
**DESIGN FOR A RAZOR HANDLE**
Herman H. Kempf, Garden City, N. Y.
Application May 29, 1945, Serial No. 119,797
Term of patent 14 years
(Cl. D23—3)



The ornamental design for a razor handle, as shown.

143,327
**DESIGN FOR A CAN OPENER**
Michael J. La Ferte, Park Ridge, Ill., assignor to Vaughan Novelty Mfg. Co., Chicago, Ill., a corperation of Illinois
Application November 16, 1944, Serial No. 116,263
Term of patent 14 years
(Cl. D22—2)



The ornamental design for a can opener, as shown and described.

143,328
**DESIGN FOR A BRACELET**
George J. Ledarer, Providence, R. I., assignor to Providence Stock Company, Providence, R. I., a corperation of Rhode Island
Application July 16, 1945, Serial No. 126,731
Term of patent 3½ years
(Cl. D45—4)



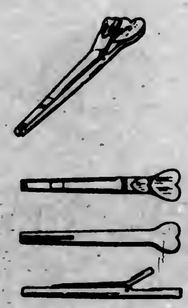
The ornamental design for a bracelet, as shown.

143,329
**DESIGN FOR A MILK CAN CART**
Otto W. Leonard, Lynchburg, Ohio
Application March 8, 1945, Serial No. 118,227
Term of patent 7 years
(Cl. D14—3)



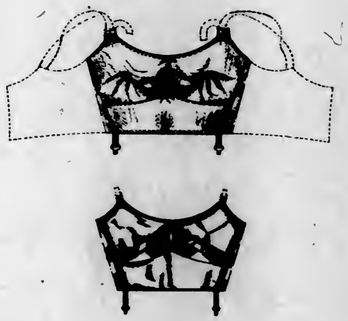
The ornamental design for a milk can cart, as shown.

143,330
**DESIGN FOR A HAIR CURLER OR THE LIKE**
Myrtle E. Lindsay, Los Angeles, Calif.
Application October 24, 1944, Serial No. 115,963
Term of patent 7 years
(Cl. D66—10)



The ornamental design for a hair curler or the like, substantially as shown.

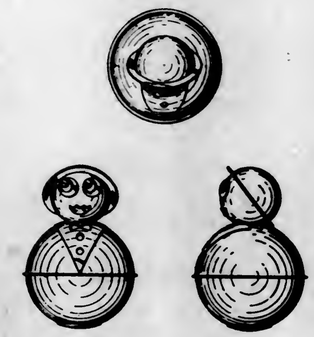
142,231
**DESIGN FOR A BRASSIÈRE**
Jack J. Le Cascio, Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y.
Application April 6, 1945, Serial No. 118,879
Term of patent 14 years
(Cl. D26—4)



The ornamental design for a brassière, as shown and described.

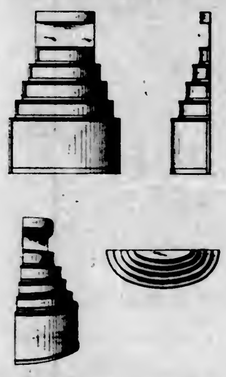
---

142,232
**DESIGN FOR A TOY FIGURE**
Edward B. Lamhard, Chicago, Ill., assignor to Louis A. Goodman, Tillye W. Goodman, and Tillye W. Goodman, as trustee, a copartnership doing business as L. A. Goodman Manufacturing Company, Chicago, Ill.
Application April 25, 1945, Serial No. 119,215
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy figure, as shown.

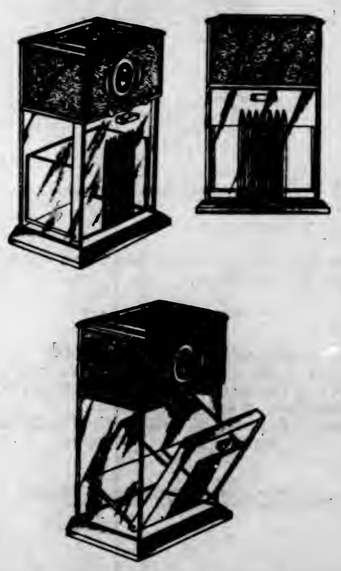
142,233
**DESIGN FOR A DISPLAY STAND**
Harold C. Macpherson, San Francisco, Calif.
Application August 13, 1945, Serial No. 121,401
Term of patent 14 years
(Cl. D60—9)



The ornamental design for a display stand, substantially as shown.

---

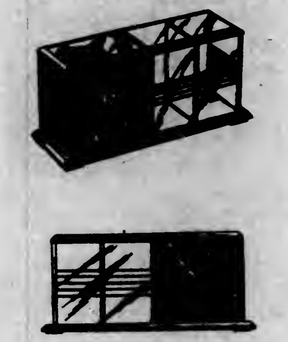
142,234
**DESIGN FOR A COMBINED RADIO CABINET AND CIGARETTE CONTAINER**
Heidi Marienthal, New York, N. Y.
Application June 29, 1945, Serial No. 120,402
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for a combined radio cabinet and cigarette container, substantially as shown.



142,235
**DESIGN FOR A COMBINED MUSIC BOX AND CIGARETTE CONTAINER**
Heidi Marienthal, New York, N. Y.
Application June 29, 1945, Serial No. 120,403
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for a combined music box and cigarette container, substantially as shown.

---

142,236
**DESIGN FOR A LIGHTING FIXTURE**
John W. Merrimon, Cincinnati, Ohio
Application October 7, 1944, Serial No. 115,669
Term of patent 14 years
(Cl. D48—16)



The ornamental design for a lighting fixture, as shown.

142,237
**DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE**
Frank Morrow, Johnston, R. I.
Application July 23, 1945, Serial No. 120,899
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

---

142,238
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application August 3, 1945, Serial No. 121,197
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an earring, substantially as shown.

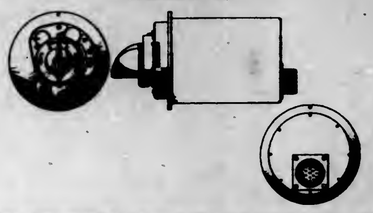
---

142,239
**DESIGN FOR AN EARRING**
Frank Morrow, Johnston, R. I.
Application August 3, 1945, Serial No. 121,198
Term of patent 3½ years
(Cl. D45—9)



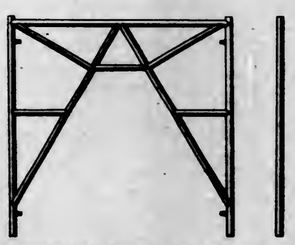
The ornamental design for an earring, substantially as shown.

143,240
**DESIGN FOR AN AUTOMATIC PILOT TURN CONTROL UNIT FOR AIRCRAFT**
Norman B. Murphy, Englewood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 12, 1945, Serial No. 120,692
Term of patent 14 years
(Cl. D26—5)



The ornamental design for an automatic pilot turn control unit for aircraft, as shown.

143,241
**DESIGN FOR A SCAFFOLD FRAME**
Lawrence C. Oertle, Sr., Milwaukee, Wis.
Application April 25, 1945, Serial No. 119,179
Term of patent 14 years
(Cl. D54—1)



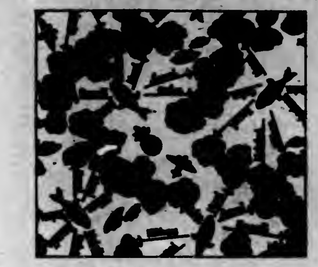
The ornamental design for a scaffold frame, as shown.

143,242
**DESIGN FOR A LIGHTER OR SIMILAR AETICLE**
Arthur Pantzer, New York, N. Y.
Application May 28, 1945, Serial No. 119,778
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a lighter or similar article, substantially as shown.

143,243
**DESIGN FOR A FABRIC**
Arthur Y. Park, Los Angeles, Calif., assignor to Goldinger Fabrics Company, a copartnership
Application August 4, 1945, Serial No. 121,212
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, as shown and described.

143,244
**DESIGN FOR A FABRIC**
Arthur Y. Park, Los Angeles, Calif., assignor to Goldinger Fabrics Company, a copartnership
Application August 4, 1945, Serial No. 121,214
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, as shown and described.

143,245
**DESIGN FOR A FABRIC**
Arthur Y. Park, Los Angeles, Calif., assignor to Goldinger Fabrics Company, a copartnership
Application August 4, 1945, Serial No. 121,215
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, as shown and described.



143,246
**DESIGN FOR A FABRIC**
Arthur Y. Park, Los Angeles, Calif., assignor to Goldinger Fabrics Company, a copartnership
Application August 4, 1945, Serial No. 121,216
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a fabric, as shown and described.

143,247
**DESIGN FOR A FABRIC**
Arthur Y. Park, Los Angeles, Calif., assignor to Goldinger Fabrics Company, a copartnership
Application August 4, 1945, Serial No. 121,222
Term of patent 3½ years
(Cl. D92—1)



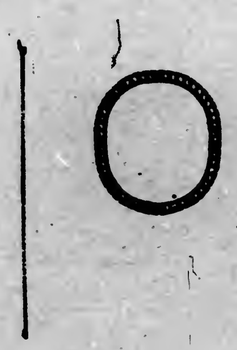
The ornamental design for a fabric, as shown and described.

143,248
**DESIGN FOR A NECKTIE RACK**
Philip Postyner, Jamaica, N. Y.
Application April 12, 1945, Serial No. 119,006
Term of patent 14 years
(Cl. D32—6)



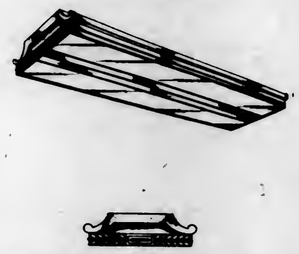
The ornamental design for a necktie rack, as shown.

143,249
**DESIGN FOR A NECKLACE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application July 14, 1945, Serial No. 120,701
Term of patent 14 years
(Cl. D45—16)



The ornamental design for a necklace, substantially as shown.

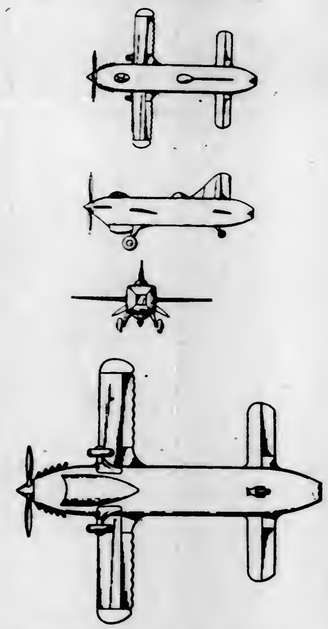
143,350
**DESIGN FOR A FLUORESCENT LIGHTING FIXTURE**
Frank Pelotaye, New York, N. Y., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application June 14, 1944, Serial No. 114,006
Term of patent 14 years
(Cl. D48—23)



The ornamental design for a fluorescent lighting fixture, as shown.

---

143,351
**DESIGN FOR AN AIRPLANE OR SIMILAR ARTICLE**
Peter Porcelli, New York, N. Y., assignor to Anna Marzullo, New York, N. Y.
Application September 15, 1944, Serial No. 115,368
Term of patent 3½ years
(Cl. D71—1)



The ornamental design for an airplane or similar article, as shown.

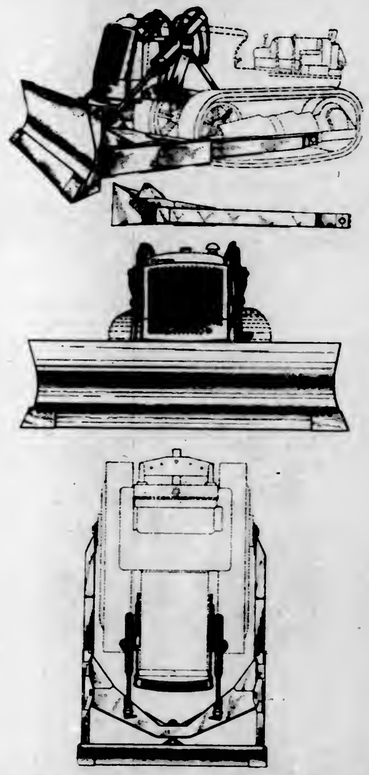
143,352
**DESIGN FOR A COMBINED COASTER AND ASH TRAY**
George Vincent Post, Cincinnati, Ohio, assignor to Charles G. Gilly, Cincinnati, Ohio, (Mrs.) J. A. Martin, Big Stone Gap, Va., and Mary V. Gilly, Richmond, Va.
Application October 17, 1945, Serial No. 122,931
Term of patent 14 years
(Cl. D65—2)



The design for a combined coaster and ash tray, as shown.

---

143,353
**DESIGN FOR A BULLDOZER**
Harvey W. Rockwell, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application March 12, 1945, Serial No. 118,435
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a bulldozer, substantially as shown and described.



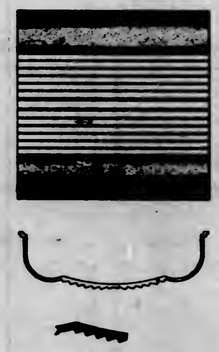
143,354
**DESIGN FOR A DRESSER BASE OR SIMILAR ARTICLE**
Wesley A. Randall, Louisville, Ky.
Application June 8, 1944, Serial No. 113,924
Term of patent 14 years
(Cl. D32—6)



The ornamental design for a dresser base or similar article, substantially as shown and described.

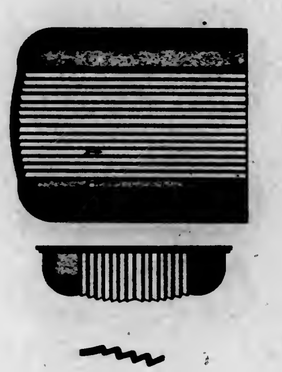
---

143,355
**DESIGN FOR AN INTERMEDIATE SECTION OF A FLUORESCENT LAMP FIXTURE SHIELD**
Benjamin Schaefer, Jamaica, N. Y.
Application July 25, 1945, Serial No. 120,946
Term of patent 14 years
(Cl. D48—16)



The ornamental design for an intermediate section of a fluorescent lamp fixture shield, as shown.

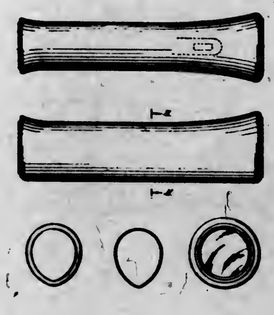
143,356
**DESIGN FOR AN END SECTION OF A FLUORESCENT LAMP FIXTURE SHIELD**
Benjamin Schaefer, Jamaica, N. Y.
Application July 25, 1945, Serial No. 120,947
Term of patent 14 years
(Cl. D48—16)



The ornamental design for an end section of a fluorescent lamp fixture shield, as shown.

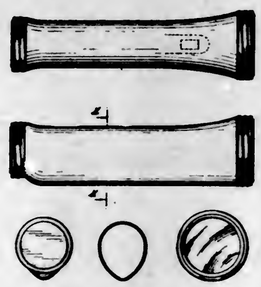
---

143,357
**DESIGN FOR A FLASHLIGHT**
Earl L. Schofield, Rockford, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application March 8, 1945, Serial No. 118,343
Term of patent 14 years
(Cl. D48—24)



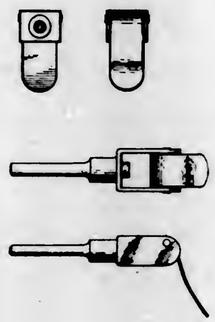
The ornamental design for a flashlight, as shown.

143,358
**DESIGN FOR A FLASHLIGHT**
Earl L. Schofield, Rockford, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application March 8, 1945, Serial No. 118,344
Term of patent 14 years
(Cl. D48—24)



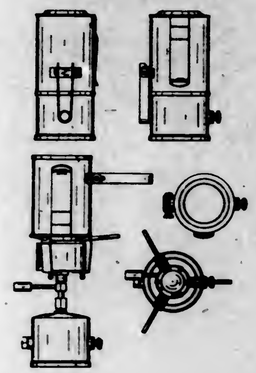
The ornamental design for a flashlight, as shown.

143,359
**DESIGN FOR A NOZZLE ATTACHMENT FOR AIR HOSE OR THE LIKE**
Lowell L. Smith, Webster City, Iowa
Application June 14, 1945, Serial No. 120,681
Term of patent 14 years
(Cl. D62—2)



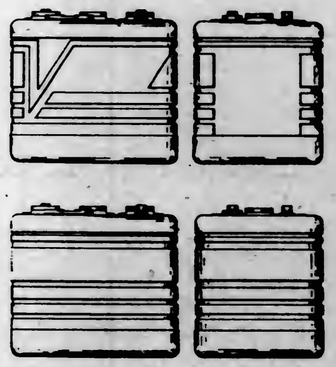
The ornamental design for a nozzle attachment for an air hose or the like, substantially as shown.

143,360
**DESIGN FOR A SPORTSMAN'S STOVE**
Edward H. Stengel and Sophus Rasmussen, Albert Lea, Minn., assignors to American Gas Machine Company, Albert Lea, Minn., a corporation of Minnesota
Application August 4, 1945, Serial No. 121,228
Term of patent 14 years
(Cl. D61—10)



The ornamental design for a sportsman's stove, as shown.

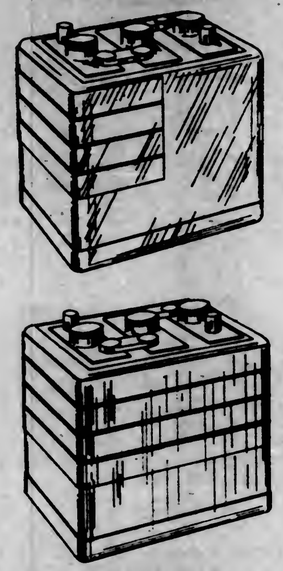
143,361
**DESIGN FOR A BATTERY**
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware
Application July 9, 1945, Serial No. 120,573
Term of patent 14 years
(Cl. D26—6)



The ornamental design for a battery, as shown.

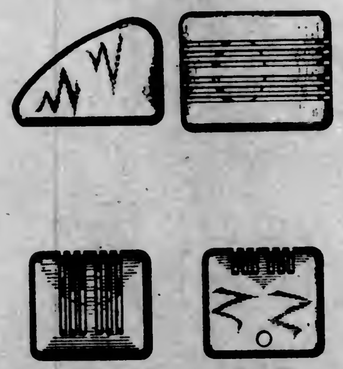


143,362
**DESIGN FOR A BATTERY**
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware
Application July 9, 1945, Serial No. 120,574
Term of patent 14 years
(Cl. D26—6)



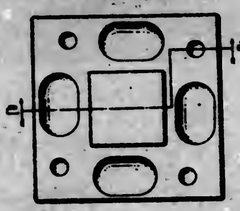
The ornamental design for a battery, as shown.

143,363
**DESIGN FOR A DESK MICROPHONE**
Robert L. Stone, Guilford, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application June 5, 1945, Serial No. 119,913
Term of patent 14 years
(Cl. D56—4)



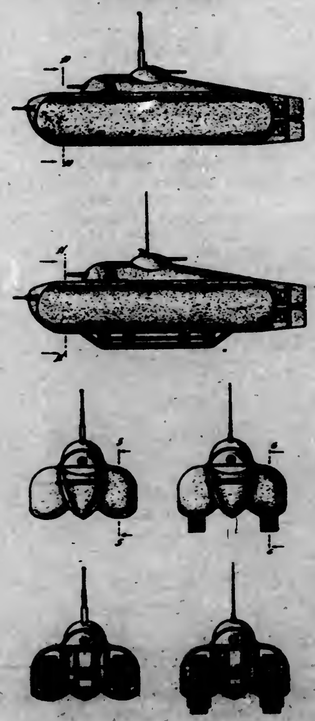
The ornamental design for a desk microphone, as shown.

143,364
**DESIGN FOR A TABLE TOP TRAY**
Edward A. Storch, Detroit, Mich.
Application January 12, 1945, Serial No. 117,419
Term of patent 2½ years
(Cl. D44—10)

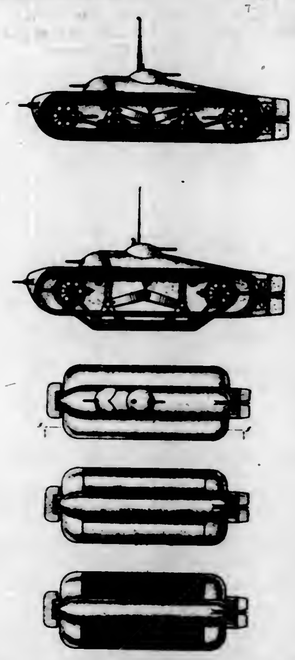


The ornamental design for a table top tray, substantially as shown and described.

143,365
**DESIGN FOR A COMBINATION SUBMARINE AND LAND TANK**
Robert M. Sutphen, Newark, N. J., assignor to Cenco Laboratories, Newark, N. J., a partnership
Application March 8, 1945, Serial No. 118,360
Term of patent 7 years
(Cl. D14—3)



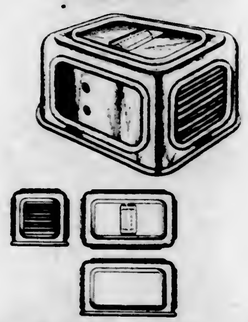
143,365—Continued



The ornamental design for a combination submarine and land tank, as shown.

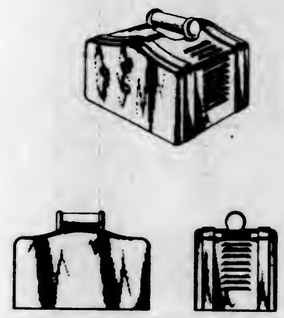
---

143,366
DESIGN FOR A PORTABLE ENGINE POWER UNIT HOUSING
William S. Tandler and Ferdinand A. De Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application February 6, 1945, Serial No. 117,779
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a portable engine power unit housing, as shown.

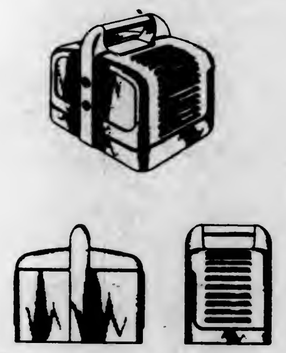
143,367
DESIGN FOR A PORTABLE ENGINE POWER UNIT HOUSING
William S. Tandler and Ferdinand A. De Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application February 6, 1945, Serial No. 117,781
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a portable engine power unit housing, as shown.

---

143,368
DESIGN FOR A PORTABLE ENGINE POWER UNIT HOUSING
William S. Tandler and Ferdinand A. De Weiss, New York, N. Y., assignors to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application February 6, 1945, Serial No. 117,782
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a portable engine power unit housing, as shown.



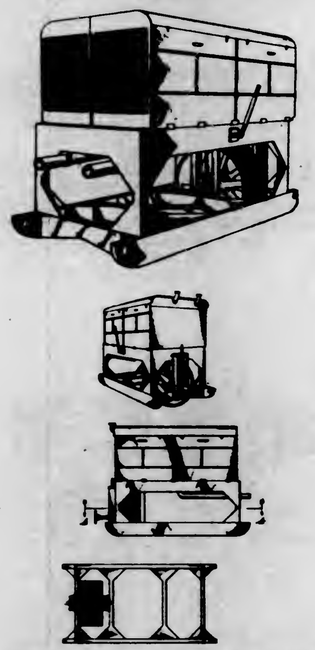
143,369
DESIGN FOR A HEAD UNIT FOR A MILKING MACHINE
Elmer B. Thompson and George A. Estel, Jr., Des Moines, Iowa, assignors, by mesne assignments, to Globe Milker, Inc., Des Moines, Iowa, a corporation of Illinois
Application February 15, 1945, Serial No. 117,979
Term of patent 14 years
(Cl. D23—1)



The ornamental design for a head unit for a milking machine, substantially as shown.

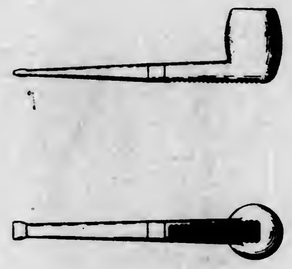
---

143,370
DESIGN FOR A DUAL MOTOR POWER UNIT
Ray F. Thornton, Dearborn, Mich.
Application December 21, 1944, Serial No. 117,400
Term of patent 3½ years
(Cl. D55—1)



The ornamental design for a dual motor power unit, as shown and described.

143,371
DESIGN FOR A SMOKING PIPE
Giovanni Trasso, Hanford, Calif.
Application January 8, 1945, Serial No. 117,233
Term of patent 3½ years
(Cl. D65—3)



The ornamental design for a smoking pipe, as shown.

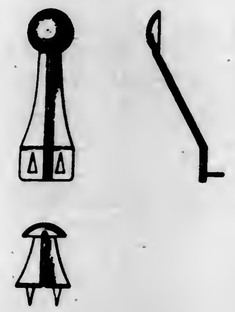
---

143,372
DESIGN FOR A SPACE HEATER
David M. Trilling, Merion, and George H. Rich, Philadelphia, Pa., assignors to David M. Trilling, Merion, Pa., and Harry Montague, Philadelphia, Pa., a partnership
Application April 14, 1945, Serial No. 118,994
Term of patent 14 years
(Cl. D61—10)



The ornamental design for a space heater, as shown and described.

143,373
**DESIGN FOR A PICTURE FRAME SPACER**
George Wade Vreeland, St. Paul, Minn.
Application June 27, 1945, Serial No. 120,371
Term of patent 3½ years
(Cl. D64—9)



The ornamental design for a picture frame spacer, as shown.

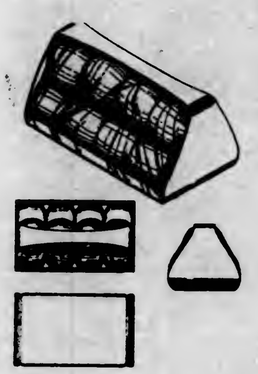
---

143,374
**DESIGN FOR A FINGER RING**
Homer M. Walden, Houston, Tex.; Llevin T. Weber executor of said Homer M. Walden, deceased
Application February 15, 1945, Serial No. 117,972
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, as shown and described.

143,375
**DESIGN FOR A COMBINED FRUIT DISPLAY AND CONTAINER UNIT**
George W. Wallace, Waynesboro, and James W. Trew, Gettysburg, Pa.
Application May 15, 1945, Serial No. 119,551
Term of patent 14 years
(Cl. D66—5)



The ornamental design for a combined fruit display and container unit, substantially as shown.

---

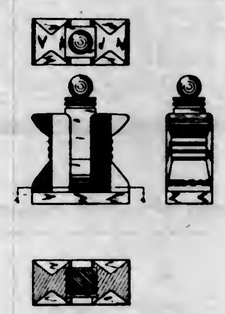
143,376
**DESIGN FOR A COMBINATION RADIO AND PHONOGRAPH TABLE**
Herbert L. Weisburgh, New Rochelle, N. Y.
Application July 19, 1945, Serial No. 120,812
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a combination radio and phonograph table, as shown.



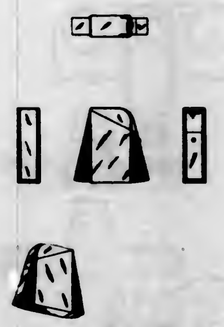
143,377
**DESIGN FOR A TABLE LIGHTER OR SIMILAR ARTICLE**
Alexander S. Weston, New York, N. Y.
Application April 2, 1945, Serial No. 118,813
Term of patent 14 years
(Cl. D48—27)



The ornamental design for a table lighter or similar article, as shown and described.

---

143,378
**DESIGN FOR AN ATOMIZER**
Eugene Williams, Washington, Mo.
Application August 13, 1945, Serial No. 121,413
Term of patent 3½ years
(Cl. D63—1)



The ornamental design for an atomizer, as shown.



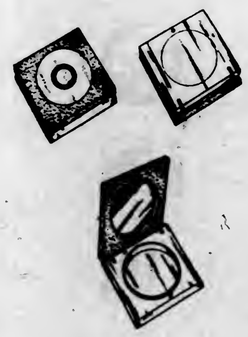
143,379
**DESIGN FOR A RECEPTACLE FOR INFANT'S FOOD**
Edward J. Wormley, New York, N. Y., assignor to George S. Ujlaki Company, New York, N. Y., a partnership composed of George S. Ujlaki and Marina Ujlaki
Application November 3, 1944, Serial No. 116,128
Term of patent 7 years
(Cl. D58—25)



The ornamental design for a receptacle for infant's food, as shown.

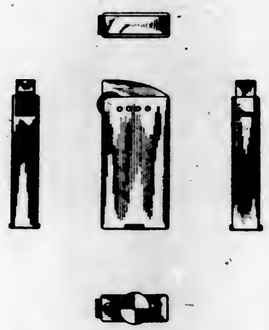
---

143,380
**DESIGN FOR A COMPACT OR SIMILAR ARTICLE**
Zachary Zemby, Los Angeles, Calif.
Application June 8, 1945, Serial No. 119,967
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown.

143,381
**DESIGN FOR A CIGARETTE LIGHTER**
Frank Zigmant, Los Angeles, Calif.
Application July 28, 1945, Serial No. 121,052
Term of patent 7 years
(Cl. D48—27)



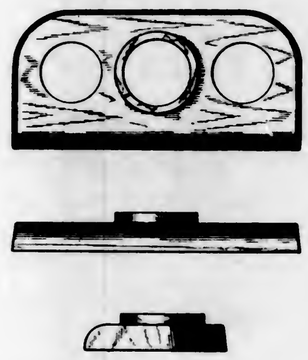
The ornamental design for a cigarette lighter, as shown.

143,382
**DESIGN FOR A FAUCET HANDLE OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,239
Term of patent 14 years
(Cl. D91—3)



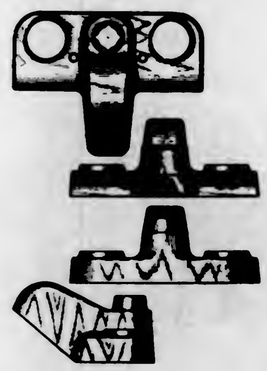
The ornamental design for a faucet handle or the like, substantially as shown.

143,383
**DESIGN FOR A COVER PLATE FOR A BATH SUPPLY FITTING OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,241
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a cover plate for a bath supply fitting or the like, substantially as shown.

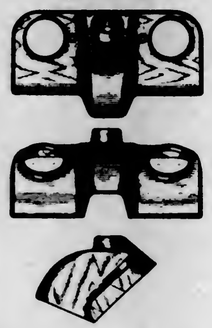
143,384
**DESIGN FOR A COVER PLATE FOR A LAVATORY SUPPLY AND WASTE FITTING OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,243
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a cover plate for a lavatory supply and waste fitting or the like, substantially as shown.



143,385
**DESIGN FOR A COVER PLATE FOR A BEVELED PANEL BACK LAVATORY SUPPLY AND WASTE FITTING OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,246
Term of patent 14 years
(Cl. 91—3)

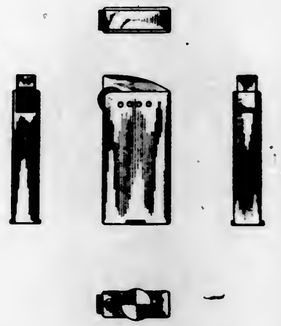


143,385—Continued



The ornamental design for a cover plate for a beveled panel back lavatory supply and waste fitting or the like, substantially as shown.

143,381
**DESIGN FOR A CIGARETTE LIGHTER**
Frank Zigmant, Los Angeles, Calif.
Application July 23, 1945, Serial No. 121,052
Term of patent 7 years
(Cl. D48—27)



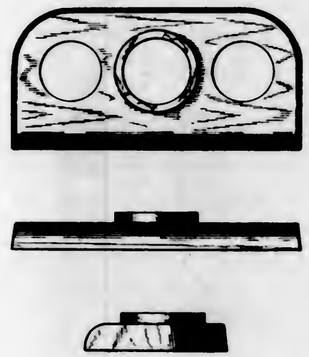
The ornamental design for a cigarette lighter, as shown.

143,382
**DESIGN FOR A FAUCET HANDLE OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,239
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a faucet handle or the like, substantially as shown.

143,383
**DESIGN FOR A COVER PLATE FOR A BATH SUPPLY FITTING OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,241
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a cover plate for a bath supply fitting or the like, substantially as shown.

143,384
**DESIGN FOR A COVER PLATE FOR A LAVATORY SUPPLY AND WASTE FITTING OR THE LIKE**
Roy H. Zinkil, Oak Park, Ill., and Henry Dreyfuss, New York, N. Y., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 119,243
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a cover plate for a lavatory supply and waste fitting or the like, substantially as shown.

# Official Gazette

[redacted]

## Department of Commerce

CHARLES SAWYER, *Secretary*

## U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

VOLUMES 580+581

NOVEMBER + DECEMBER

MICRO-PHOTO SERVICE BUREAU
4614 PROSPECT AVENUE • CLEVELAND 3, OHIO
Phone UTah 1-7373